



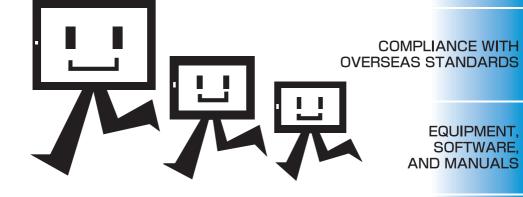
GOT1000 Series Handbook Ver. D

FUNCTION

SOFTWARE

GOT

CONNECTION CONFIGURATION





http://MitsubishiElectric.co.jp/melfansweb/english



GLOSSARY



INTRODUCTION

GOT1000 Series Handbook describes the basic information about GOT1000 series of MITSUBISHI Graphic Operation Terminal (hereinafter abbreviated as GOT), the information required for the GOT installation, and others.

For more details, refer to the manuals shown in this handbook.

HOW TO USE THIS HANDBOOK

Be sure to use this handbook together with the following catalogs and manuals.

Catalog

The following catalog describes the information about new functions, the product lineup, the cost, and others.

A version of the catalog corresponds to this handbook L(NA)08054-G (1008) (MDOC)

Manuals related to GOT1000 series

The manuals describe the detailed information for the GOT.

For details of the information shown in this handbook, refer to the related manuals of GOT1000 series.

The manuals related to GOT1000 series can be downloaded from the MITSUBISHI ELECTRIC FA NETWORK SERVICE website (http://wwwf2.mitsubishielectric.co.jp/english/ index.html).



MANUALS

For details of the connection configuration and software operation/installation, refer to the following manuals.

For details about GOT hardware

- GT16 User's Manual (Hardware)
- GT16 User's Manual (Basic Utility)
- GT15 User's Manual
- GT11 User's Manual
- GT10 User's Manual
- GT16 Handy GOT User's Manual*
- SH-080928ENG (1D7MD3)
- SH-080929ENG (1D7MD4)
- SH-080528ENG (1D7M23)
- JY997D17501 (09R815)
- JY997D24701 (09R819)
- JY997D41201, JY997D41202 (09R821)
- JY997D20101, JY997D20102 (09R817)
- GT11 Handy GOT User's Manual *: GT16 Handy GOT is coming soon.
- For details about screen configurations, functions, and usage of GT SoftGOT1000
 - GT SoftGOT1000 Version3 Operating Manual for GT Works3 SH-080860ENG (1D7MA9)
- For details about basic operation of screen design, data transfer operation, and common settings of GT Designer3
 - GT Designer3 Version1 Screen Design Manual (Fundamentals) SH-080866ENG (1D7MB9)
- For details about specifications and setting methods of object functions
 - GT Designer3 Version1 Screen Design Manual (Functions) SH-080867ENG (1D7MC1)

For details about screen configurations, functions, and usage of GT Simulator3

 GT Simulator3 Version1 Operating Manual for GT Works3 SH-080861ENG (1D7MB1)

For details about connection configurations and how to make cable

- GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 SH-080868ENG (1D7MC2)
- GOT1000 Series Connection Manual (Non-Mitsubishi Products 1) for GT Works3 SH-080869ENG (1D7MC3)
- GOT1000 Series Connection Manual (Non-Mitsubishi Products 2) for GT Works3 SH-080870ENG (1D7MC4)
- GOT1000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3
 SU 090974ENC (4D7MCE)
 - SH-080871ENG (1D7MC5)
- For details about extended functions and option functions
 - GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3 SH-080863ENG (1D7MB3)
- For details about specifications, system configurations, and setting methods of gateway function
 - GOT1000 Series Gateway Functions Manual for GT Works3 SH-080858ENG (1D7MA7)
- For details about specifications, system configurations, and setting methods of MES interface function
 - GOT1000 Series MES Interface Function Manual for GT Works3 SH-080859ENG (1D7MA8)



NEWLY ADDED FUNCTIONS

The following shows newly added functions.

As of September 2010

Added new model

Four models of 10.4 type (GT1675-VNBA, GT1675-VNBD, GT1672-VNBA and GT1672-VNBD) and two models of 8.4 type (GT1662-VNBA and GT1662-VNBD) are added to GT16.

GT16 User's Manual (Hardware)

GT16 User's Manual (Basic Utility)

Four models (GT1030-LBL, GT1030-LWL, GT1030-LBLW and GT1030-LWLW) are added to GT10.

GT10 User's Manual

GT16 Handy (GT1665HS-VTBD) is added.^{*}

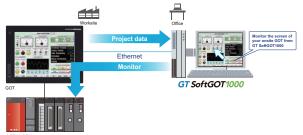
*: GT16 Handy GOT User's Manual *

GOT enhanced by new functions

SoftGOT-GOT link function

Connect GT SoftGOT1000 with GOT by an Ethernet connection.

Use the GOT's project data with GT SoftGOT1000 to monitor connected equipment.



Backlight intensity adjustment

Consider the conditions in the operation environment (daytime/nighttime etc.) and user comfort.

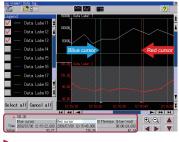
You can adjust the brightness of the backlight while viewing the user screen.



Log viewer function

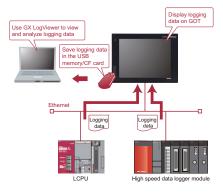
The logging data collected by LCPU and high speed data logger module can be displayed on GOT.

By displaying two cursors (multi cursor), the changes of data can easily be checked.



You do not need to have any PCs on site. Check logging data from GOT, and you can take corrective actions quickly.

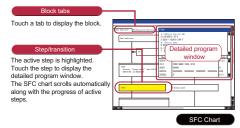
The function enables to store the logging data using the front USB interface of the GOT, as well as to browse the logging data and change the logging setting on GX LogViewer by connecting the personal computer. (FA transparent function)



Motion SFC monitor function

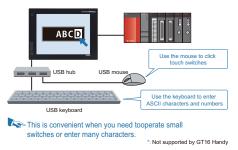
Viewing the batch program monitor or the active step list enables you to can see the whole status at a glance.

Motion SFC programs of Mitsubishi Motion Controller (Q Series) can be monitored.



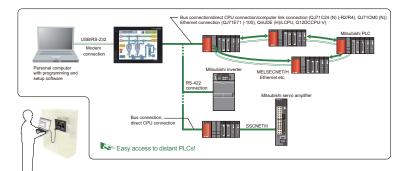
USB mouse/keyboard connection

In a user-created screen, you can use your mouse to click touch switches and your keyboard to enter ASCII characters and numbers.



FA transparent function

Newly supports MR Configurator2, MX Component/MX Sheet and GX LogViewer.



Remote personal computer operation function (Ethernet)

A personal computer at a remote location can be operated from an onsite GOT when they are connected via Ethernet.

A USB mouse/keyboard can be connected to the front USB interface.



 You can view files such as manuals stored on your personal computer, or you can use browsers and engineering tools. ∴ Not supported by GT16□_VNB□_GT16 Handy

*: The license key (GT16-PCRAKEY) is necessary.

MELSEC-L troubleshooting function

The maintenance screen dedicated to LCPU is installed. Without designing new screens and even without using a personal computer, you can check CPU status/error information easily.

Just touch the dedicated screen. You can jump to a function screen such as the intelligent unit monitor to quickly take corrective actions on site.

PU status	ohni URD					
000 ENR 200 ENR 200 1/200.	Unit Name L260PU-BT	Working State ERROR				
	- CPU Error Info					
	ErrGode 2200	Date 2010-03-16	Time 18141101			
	Error Nessage	MISSING PARA;				
	601 Error Info 331 Nemory card n	at installed or M-CAP	RD switched	OFF	٦	
	331 Memory card n	st installed or M-CAP System age i tar	RD switched	OFF		
Ladder Deck	331 Memory card n		PD switched	OFF		
Ladder Deck Ladder Other	391 Memory card n	System apriltor	PC switched	DFF		

 Supporting the motion controller CPU (Q series) GT10 supports the connection with the motion controller CPU (Q series).
 Expanded manufactures and models of controllers

 GT16/GT15/GT11/GT10 Connections with the MELSEC-L series, C language controller (Q12DCCPU-V), and MELSEC-WS series are supported.

Programmable controllers (Q50UDEHCPU and Q100UDEHCPU) are added. Motion controllers (Q172DCPU-S1 and Q173DCPU-S1) are added.

4.1 MITSUBISHI Programmable Controller

Third party programmable controller

Connection with the SICK safety controller is supported.

4.3.18 SICK safety controller

Third party robot controller

Connection with the IAI robot controller is supported.

4.4.3 IAI robot controller

GT16/GT15/GT11

Third party servo amplifier

Connection with the Panasonic servo amplifier is supported.

F 4.4.2 Panasonic servo amplifier

GT16/GT15

Connection with the CC-Link IE field network head module is supported.

4.1 MITSUBISHI Programmable Controller

ABBREVIATIONS AND GENERIC TERMS

The following shows the abbreviations and generic terms used in this handbook.

GOT

Abbrev	iations and	generic terms	Description			
	GT1695	GT1695M-X	Abbreviation of GT1695M-XTBA, GT1695M-XTBD			
	GT1685	GT1685M-S	Abbreviation of GT1685M-STBA, GT1685M-STBD			
		GT1675M-S	Abbreviation of GT1675M-STBA, GT1675M-STBD			
	GT1675	GT1675M-V	Abbreviation of GT1675M-VTBA, GT1675M-VTBD			
		GT1675-VN	Abbreviation of GT1675-VNBA, GT1675-VNBD			
	GT1672	GT1672-VN	Abbreviation of GT1672-VNBA, GT1672-VNBD			
	GT1665	GT1665M-S	Abbreviation of GT1665M-STBA, GT1665M-STBD			
	GI 1005	GT1665M-V	Abbreviation of GT1665M-VTBA, GT1665M-VTBD			
	GT1662	GT1662-VN	Abbreviation of GT1662-VNBA, GT1662-VNBD			
	GT16		Abbreviation of GT1695, GT1685, GT1675, GT1672, GT1665, GT1662			
	GT1595	GT1595-X	Abbreviation of GT1595-XTBA, GT1595-XTBD			
	074505	GT1585V-S	Abbreviation of GT1585V-STBA, GT1585V-STBD			
	GT1585	GT1585-S	Abbreviation of GT1585-STBA, GT1585-STBD			
		GT1575V-S	Abbreviation of GT1575V-STBA, GT1575V-STBD			
		GT1575-S	Abbreviation of GT1575-STBA, GT1575-STBD			
	GT157	GT1575-V	Abbreviation of GT1575-VTBA, GT1575-VTBD			
		GT1575-VN	Abbreviation of GT1575-VNBA, GT1575-VNBD			
		GT1572-VN	Abbreviation of GT1572-VNBA, GT1572-VNBD			
		GT1565-V	Abbreviation of GT1565-VTBA, GT1565-VTBD			
	GT156	GT1562-VN	Abbreviation of GT1562-VNBA, GT1562-VNBD			
		GT1555-V	Abbreviation of GT1555-VTBD			
GOT1000	GT155	GT1555-Q	Abbreviation of GT1555-QTBD, GT1555-QSBD			
Series		GT1550-Q	Abbreviation of GT1550-QLBD			
	GT15		Abbreviation of GT1595, GT1585, GT157 , GT156 , GT155			
	074455.0		Abbreviation of GT1155-QTBDQ, GT1155-QSBDQ, GT1155-QTBDA, GT1155-QSBDA,			
	GT115	GT1155-Q	GT1155-QTBD, GT1155-QSBD			
	GT1150-Q		Abbreviation of GT1150-QLBDQ, GT1150-QLBDA, GT1150-QLBD			
	Handy	GT1155HS-Q	Abbreviation of GT1155HS-QSBD			
	GOT GT1150HS-Q		Abbreviation of GT1150HS-QLBD			
	GT11		Abbreviation of GT115 , GT11 Handy GOT,			
	GT1055-Q		Abbreviation of GT1055-QSBD			
	GT105	GT1050-Q	Abbreviation of GT1050-QBBD			
		GT1045-Q	Abbreviation of GT1045-QSBD			
	GT104	GT1040-Q	Abbreviation of GT1040-QBBD			
			Abbreviation of GT1030-LBD, GT1030-LBD2, GT1030-LBL, GT1030-LBDW,			
	074000		GT1030-LBDW2,			
	GT1030		GT1030-LBLW, GT1030-LWD, GT1030-LWD2, GT1030-LWL, GT1030-LWDW,			
			GT1030-LWDW2, GT1030-LWLW			
			Abbreviation of GT1020-LBD, GT1020-LBD2, GT1020-LBL, GT1020-LBDW,			
	GT1020		GT1020-LBDW2,			
			GT1020-LBLW, GT1020-LWD, GT1020LWD2, GT1020-LWL, GT1020-LWDW,			
	OT40		GT1020-LWDW2, GT1020-LWLW			
	GT10		Abbreviation of GT105 , GT104 , GT1030, GT1020			
	GT SoftGOT1000		Abbreviation of GT SoftGOT1000			
GOT900 Series			Abbreviation of GOT-A900 series, GOT-F900 series			
GOT800 Se	eries		Abbreviation of GOT-800 series			

Others

Abbreviations and generic terms	Description
IAI	Abbreviation of IAI Corporation
OMRON	Abbreviation of OMRON Corporation
KEYENCE	Abbreviation of KEYENCE CORPORATION
KOYO EI	Abbreviation of KOYO ELECTRONICS INDUSTRIES CO., LTD.
SHARP	Abbreviation of Sharp Manufacturing Systems Corporation
JTEKT	Abbreviation of JTEKT Corporation
SHINKO	Abbreviation of Shinko Technos Co., Ltd.
CHINO	Abbreviation of CHINO CORPORATION
TOSHIBA	Abbreviation of TOSHIBA CORPORATION
TOSHIBA MACHINE	Abbreviation of TOSHIBA MACHINE CO., LTD.
HITACHI IES	Abbreviation of Hitachi Industrial Equipment Systems Co., Ltd.
HITACHI	Abbreviation of Hitachi, Ltd.
FUJI FA	Abbreviation of Fuji Electric FA Components & Systems Co., Ltd.
PANASONIC	Abbreviation of Panasonic Corporation
PANASONIC EW	Abbreviation of Panasonic Electric Works Co., Ltd.
FUJI SYS	Abbreviation of Fuji Electric Systems Co., Ltd.
YASKAWA	Abbreviation of YASKAWA Electric Corporation
YAMATAKE	Abbreviation of Yamatake Corporation
YOKOGAWA	Abbreviation of Yokogawa Electric Corporation
ALLEN-BRADLEY	Abbreviation of products manufactured by Rockwell Automation, Inc.
GE FANUC	Abbreviation of GE Fanuc Automation Corporation GE Fanuc Automation Corporation
LS IS	Abbreviation of LS Industrial Systems Co., Ltd.
SCHNEIDER	Abbreviation of Schneider Electric SA
SICK	Abbreviation of SICK AG
SIEMENS	Abbreviation of Siemens AG
RKC	Abbreviation of RKC INSTRUMENT INC.
HIRATA	Abbreviation of Hirata Corporation
PLC	Abbreviation of programmable controller
Temperature controller	Generic term for temperature controller manufactured by each corporation
Indicating controller	Generic term for indicating controller manufactured by each corporation
CHINO controller	Abbreviation of indicating controller manufactured by CHINO CORPORATION
PC CPU module	Abbreviation of PC CPU Unit manufactured by CONTEC CO., LTD
GOT (server)	Abbreviation of GOTs that use the server function
GOT (client)	Abbreviation of GOTs that use the client function
Windows [®] font	Abbreviation of TrueType font and OpenType font available for Windows ^O (Differs from the True Type fonts settable with GT Designer3)
Intelligent function module	Indicates the modules other than the PLC CPU, power supply module and I/O module that are mounted to the base unit.
MODBUS [©] /RTU	Generic term for the protocol designed to use MODBUS [®] protocol messages on a serial communication.
MODBUS [©] /TCP	Generic term for the protocol designed to use MODBUS^{\odot} protocol messages on a TCP/ IP network.

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5 COMPLIANCE WITH OVERSEAS STANDARDS

EQUIPMENT, SOFTWARE, AND MANUALS

7 GLOSSARY

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This chapter describes the GOT overview.

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1. GOT

1.1 Product Lineup

GT16

With a variety of integrated functions, such as Ethernet and multimedia





TFT (High-brightness, wide viewing angle)

GT1665M-STBA AC type GT1665M-STBD DC type

Resolution: SVGA 800×600 Display color: 65536 colors Multimedia, video/RGB model





TFT (High-brightness, wide viewing angle) GT1665M-VTBA AC type

GT1665M-VTBD DC type

Resolution: VGA 640×480 Display color: 65536 colors Multimedia, video/RGB model





Resolution: VGA 640×480 Display color: 16 colors



type

Handy GOT/ TFT (High-brightness, wide viewing angle) 6.5 GT1665HS-VTBD DC type

Resolution: VGA 640×480 Display color: 65536 colors



1

GOT

2

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3

●GT15

Wide range of use from network to stand alone





TFT (High intensity and wide angle view)



Display color: 65536 colors





TFT

Resolution: QVGA 320×240

Display color: 65536 colors

5.7

type

8.4 TFT



(High intensity and wide angle view)

GT1555-VTBD DC type

Resolution: VGA 640×480 Display color: 65536 colors

TFT







Resolution: QVGA 320×240 Display color: 4096 colors





(High intensity and

wide angle view)

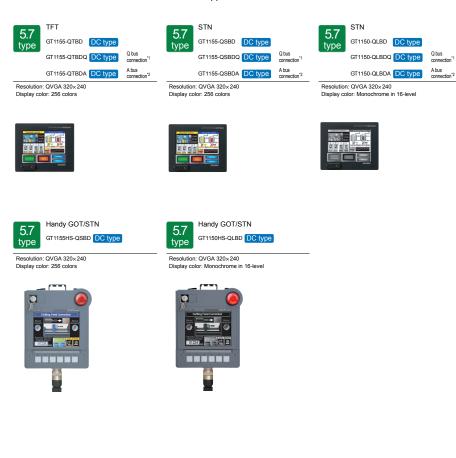
GT1555-QTBD DC type

Resolution: QVGA 320×240 Display color: Monochrome in 16-level



●GT11

Enhanced with basic functions for stand alone application



*1: For QCPU (Q mode)/Motion controller CPU (Q series) connection

*2: For QnA/ACPU/Motion controller CPU (A series) connection

●GT10

Including all the basic functions required for a HMI display



Resolution: QVGA 320×240 Display color: 256 colors





Resolution: QVGA 320×240 Display color: Monochrome (white/blue) in 16-level





Resolution: QVGA 320×240 Display color: 256 colors





Display color: Monochrome (white/blue) in 16-level



4.5	STN
type	GT1030-LBD Black 24VDC type RS-422 connection
	GT1030-LBD2 Black 24VDC type RS-232 connection
	GT1030-LBL Black 5VDC type RS-422 connection
	GT1030-LWD White 24VDC type RS-422 connection
	GT1030-LWD2 White 24VDC type RS-232 connection
	GT1030-LWL White 5VDC type RS-422 connection

Resolution: 288×96

Display color: Monochrome (white/black) Backlight: 3-color LED (green/orange/red)



4.5	STN			
type	GT1030-LBDW	Black	24VDC type	RS-422 connection
71	GT1030-LBDW2	Black	24VDC type	RS-232 connection
	GT1030-LBLW	Black	5VDC type	RS-422 connection
	GT1030-LWDW	White	24VDC type	RS-422 connection
	GT1030-LWDW2	White	24VDC type	RS-232 connection
	GT1030-LWLW	White	5VDC type	RS-422 connection

Resolution: 288×96

Display color: Monochrome (white/black) Backlight: 3-color LED (white/pink/red)



37	STN
type	GT1020-LBD Black 24VDC type RS-422 connection
., , , ,	GT1020-LBD2 Black 24VDC type RS-232 connection
	GT1020-LBL Black 5VDC type RS-422 connection
	GT1020-LWD White 24VDC type RS-422 connection
	GT1020-LWD2 White 24VDC type RS-232 connection
	GT1020-LWL White SVDC type RS-422 connection

Resolution: 160×64

Display color: Monochrome (white/black) Backlight: 3-color LED (green/orange/red)



3.7	STN			
type	GT1020-LBDW	Black	24VDC type	RS-422 connection
	GT1020-LBDW2	Black	24VDC type	RS-232 connection
	GT1020-LBLW	Black	5VDC type	RS-422 connection
	GT1020-LWDW	White	24VDC type	RS-422 connection
	GT1020-LWDW2	White	24VDC type	RS-232 connection
	GT1020-LWLW	White	5VDC type	RS-422 connection

Resolution: 160×64 Display color: Monochrome (white/black) Backlight: 3-color LED (white/pink/red)



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GLOSSARY
 GLO

Use a personal computer or panel computer as a GOT. Software recreates various GOT functionality.



GT SoftGOT1000

GT SoftGOT1000 is the HMI software that provides GOT functions on personal computers and panel computers.

This software connects with various types of equipment such as Mitsubishi PLCs and let you see screens just like the GOT1000 series. You can also reuse GOT's project data without modification.

Along with all the advantages of a GOT, you can also enjoy the convenience and flexibility of personal computers and panel computers. A license key is required on your PC's parallel port or USB port while using this software.

*: GT SoftGOT1000 Version3 software included with the GT Works3 software suite

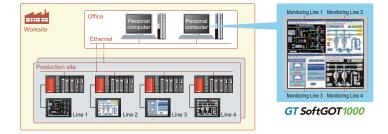
Monitor the production site from a remote location

Reduce downtime

Use GT SoftGOT1000 to monitor the production site from your office. You can collect information quickly when a problem occurs, taking necessary actions immediately.

Use GOT project data from the production site You can reuse project data of the GOT at your production site as the project data of GT SoftGOT1000 to reduce the design cost.

JSB port license key



Connect with MELSEC process control for process control applications

You can connect GT SoftGOT1000 to the monitor tools of the Engineering Environment PX Developer for design and maintenance work for process control. In this way, a process control monitoring system can easily be constructed.

PX Developer window screens and other tools

Tools for monitoring, operating, and tuning loop control tags. (The display position can be specified.)

GT SoftGOT1000 touch switch/object

Clicking on touch switches and objects displays various screens of PX Developer monitoring tools. (The display position can be specified.)



PX Developer monitoring tool bar

Clicking on buttons executes various operations such as starting up GT SoftGOT1000 and switching base screens.

GT SoftGOT1000 base screen

Make your desktop into a graphic monitoring window by displaying the GT SoftGOT1000 base screen in full-screen mode and sending the window to the back of the screen.

Link with other applications to construct a high-performance system

You can use a user-created application to read and write information to and from internal devices of GT SoftGOT1000. By linking data with user applications such as a data logger, you can construct a high-performance system package. You can also use a touch switch on the GT SoftGOT1000 monitor to launch another application.

Content State Content State

The SoftGOT-GOT link function enhances the linkage to your onsite GOT 👜

Monitor the screen of your onsite GOT from GT SoftGOT1000 Connect GT SoftGOT1000 with GOT by an Ethernet connection. Use the GOT's project data with GT SoftGOT1000 to monitor connected equipment.

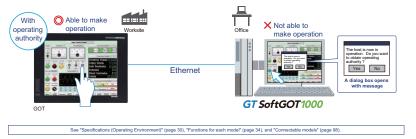
: Only CH1 can be monitored when GOT is connected via multi-channels. GOT and CCPU/LCPU can be connected by a bus connection, direct CPU connection, computer link connection, or Ethernet connection.

Monitor the screen of your onsite GOT from GT SoftGOT1000 Project data Ethernet Monitor GT SoftGOT1000 GOT QCPU/LCPU

Prevent simultaneous operations from GT SoftGOT1000 and GOT

Operation of an input object (e.g. touch switch, numerical input) is allowed by either GT SoftGOT1000 or the GOT, whichever has operating authority.

When one terminal does not have operating authority, a dialog box opens to show that the other terminal has operating authority. This exclusive control method keeps prohibiting operation until the terminal obtains operating authority.



GLOSSARY

1

GOT 2

SOFTWARE

1.2 Specification

GT16

General specifications

Iter	n			Specif	ication					
Operating ambient	Display			0°C to	50°C ^{*5}					
temperature ^{*1}	Other than display			0°C to	55°C*5					
Storage ambient ter	nperature	-20°C to 60°C								
Operating ambient I	numidity ^{*5}			10 to 90%RH, n	o condensation					
Storage ambient hu	midity		10 to 90%RH, no condensation							
Vibration resistance				Frequency	Acceleration	Half amplitude	Sweep count			
		1	Under	5 to 9Hz	-	3.5mm	10 times each in			
		JIS B 3502 and vibr	intermittent vibration	9 to 150Hz	9.8m/s ²	-	X, Y and Z directions			
		IEC 61131-2 Under continuou vibration		5 to 9Hz	-	1.75mm				
				9 to 150Hz	4.9m/s ²	-	-			
Impact resistance			Conforming to JIS B 3502 and IEC 61131-2 (147m/s ² , 3 times in each of X, Y and Z directions)							
Operating atmosphe	ere	Free from oil n	nist, corrosive gas bear	es, flammable ga ns (The same ap			usts or direct sun			
Operating altitude ^{*2}				2000m	or less					
Installation location				In contro	l panel*6					
Overvoltage catego	ry ^{*3}			∏ or l	ower					
Contamination level	*4			2 or	less					
Cooling method				Self-c	ooling					
Grounding		1	ype D grounding	100Ω or less). C	onnect to panel	if unable to grou	nd.			

- The maximum operating ambient temperature should be 5°C lower than that shown in the table on the left when connecting to a multimedia unit (GT146-MMR), MESENET741 excession and the set of the set

- 0 to 40°C for GT1665HS Excluding GT1665HS

Do not use or store the GOT under direct sun light or in an environment with excessively high temperature, dust, humidity or vibration.

Performance specifications

				Cr: f: -	ation						
	Item	GT1695M-XTBA GT1695M-XTBD	GT1685M-STBA GT1685M-STBD	GT1675M-STBA GT1675M-STBD	GT1675M-VTBA GT1675M-VTBD	GT1675-VNBA GT1675-VNBD	GT1672-VNBA GT1672-VNBD				
	Туре		TFT color LCD (high-brightn	ess, wide viewing angle)		TFT co	for LCD				
	Screen size	15*	12.1"		1	0.4"					
	Resolution	XGA: 1024×768 [dots]	SVGA: 800;	600 [dots]		VGA: 640×480 [dots]					
	Display size	304.1(W)×228.1(H)[mm]	246(W)×184.5(H)[mm]		211(W)×1	158(H)[mm]					
Display*1	No. of displayed characters	16-dot standard font: 64 chars.×48 lines (2-byte) 12-dot standard font: 85 chars.×64 lines (2-byte)	16-dot standard font: 50 12-dot standard font: 66			andard font: 40 chars.×30 line andard font: 53 chars.×40 line					
	Display colors		65536 c	olors		4096 colors	16 colors				
	View angle ^{*2}	Right/left: 75°, Up: 50°, Down: 60°	Right/left: 80°, Up: 60°, Down: 80°	Up/down/ri	abt/loft: 99°	Right/left: 45°, Up					
	Intensity					200[cd/m ²]					
		450 [cd/m ²]	470 [cd/m ²]	400 [cd/m ²]	450[cd/m ²]						
	Intensity adjustment		8-step adju				djustment				
	Life	Approx. 52,000 hours Approx. 52,000 hours Approx. 52,000 hours									
		(operating ambient	(operating ambient temperature: 25°C) (operating ambient temperature: 25°C) (operating ambient temperature: 25°C)								
			Cold-cathode	fluorescent tube (replaceable), with backlight OFF detecti	on function.					
Backlight				Backlight off time and scree							
Cookiignt	Life*3		-	Approx. 50,000 I							
	(Time for display intensity reaches 50% at operating ambient temperature of 25°C)										
	Туре			Analog resis	tive type						
Touch	Key size			Min. 2×2 [dot	s](per key)						
panel	No. of simultaneous	i i									
*10	touch points		Simultaneous touch prohibited ^{*4} (1 point only)								
	Life		1,000,000 times or more (operating force 0.98N or less)								
	Detection distance	1[1	m]			-					
	Detection range	Right/left/up	v/down: 70°			-					
Human	Detection delay time	0 to 4									
sensor	Detection delay time	Temperature difference to be				-					
	Detection temperature	body and a				-					
	C drive		5MB built-in flash memory (for	saving project data and OS)		11MB built-in flash memory (fo	or saving project data and OS				
Memory ^{*5}	Life (No. of writings)		one bait in idon includy (ior		times	This balt in identification ()	or daving project data and de				
	Ene (No. or Whitings)		100,000 times								
		GT15-BAT type lithium battery									
Patten	Backed up data		Clock data mainter			ser area (500KB)					
Battery	Backed up data			ance time notification data, s	ystem log data and SRAM u	ser area (500KB)					
Battery	Backed up data Life			ance time notification data, s Approx. 5 years (operating an	ystem log data and SRAM u nbient temperature: 25°C)	ser area (500KB)					
Battery		Con	Tran	Approx. 5 years (operating an RS-232 amission speed: 115200/5760	ystem log data and SRAM u nbient temperature: 25°C) , 1ch 0/38400/19200/9600/4800b	ps,	ther				
Battery	Life	Con	Tran nector shape: D-sub 9-pin (ma	Ance time notification data, s Approx. 5 years (operating an RS-232 smission speed: 115200/5760 e) Application: Communicat	ystem log data and SRAM u nbient temperature: 25°C) , 1ch 0/38400/19200/9600/4800bj ion with connected devices,	ps,	ıter				
Battery	Life	Con	Tran nector shape: D-sub 9-pin (ma	Approx. 5 years (operating an RS-232 amission speed: 115200/5760 9) Application: Communicat data upload/download, OS in	ystem log data and SRAM u nbient temperature: 25°C) , 1ch 10/38400/19200/9600/4800b ion with connected devices, stallation, FA transparent fur	ps,	iter				
Battery	Life	Con	Tran nector shape: D-sub 9-pin (ma (project	Approx. 5 years (operating an RS-232 amission speed: 115200/576 e) Application: Communicat data upload/download, OS in RS-422/4	ystem log data and SRAM u nbient temperature: 25°C) 1ch 0/38400/19200/9600/4800b ion with connected devices, stallation, FA transparent fur 35, 1ch	ps, connection to personal compu cction)	iter				
Battery	Life RS-232 ^{*7}	Con	Tran nector shape: D-sub 9-pin (ma (project Tran	Approx. 5 years (operating an RS-232 amission speed: 115200/5760 9) Application: Communicat data upload/download, OS in	ystem log data and SRAM u nbient temperature: 25°C) , 1ch 0/038400/19200/9600/4800b/ ion with connected devices, stallation, FA transparent fur 35, 1ch 0/038400/19200/9600/4800b	ps, connection to personal compu cction) ps	rter				
Battery	Life RS-232 ^{*7}	Con	Tran nector shape: D-sub 9-pin (ma (project Tran	Approx. 5 years (operating an RS-232 amission speed: 115200/5760 e) Application: Communicat data upload/download, OS in RS-42214 smission speed: 115200/5760 e: 14-pin (female) Applicatio	ystem log data and SRAM u nbient temperature: 25°C) .1ch 0/38400/19200/9600/4800bj for with connected devices, stallation, FA transparent fur 35, 1ch 10/38400/19200/9600/4800b n: Communication with conn	ps, connection to personal compu cction) ps	rter				
Battery	Life RS-232 ^{*7} RS-422/485	Con	Tran nector shape: D-sub 9-pin (ma (project Tran	sance time notification data, s Approx. 5 years (operating ar RS-232 smission speed: 115200/576(e) Application: Communicat data upload/download, O S in RS-422/4 smission speed: 115200/576 a: 14-pin (female) Applicatio Data transfer system: 1004 Data transfer system: 1004	ystem log data and SRAM u hbient temperature: 25°C) , 1ch 0/38400/19200/9600/4800b ion with connected devices, stallation, FA transparent fur 35, 1ch 10/38400/19200/9600/4800b n: Communication with conn SE-TX, 10BASE-T, 1ch ⁷⁸	ps, connection to personal compu cction) ps	iter				
	Life RS-232 ^{*7}	Con	Tran nector shape: D-sub 9-pin (ma (project Tran Connector shap Application: Communica	ance time notification data, s Approx. 5 years (operating an RS-232 smission speed: 115200/576(e) Application: Communical data upload/download, OS in RS-42244 smission speed: 115200/576 a: 14-pin (female) Applicatio Data transfer system: 1008/ Connector shape: RJ ion with connected devices,	ystem log data and SRAM u hbient temperature: 25°C) 1ch 0/38400/19200/9600/4800b ion with connected devices, stallation, FA transparent fur 35, 1ch 0/38400/19200/9600/4800b n: Communication with conn SE-TX, 10BASE-T, 1ch ^{*3} 45 (modular jack) ateway function, connection	ps, connection to personal compu- ction) ps ected devices to personal computer	der				
Built-in	Life RS-232 ^{*7} RS-422/485	Con	Tran nector shape: D-sub 9-pin (ma (project Tran Connector shap Application: Communica	ance time notification data, s Approx. 5 years (operating an R5-232 amission speed: 1152005766 e) Application: Communicat data upload/download., OS in R5-422/4 smission speed: 1152005766 a: 14-pin (female) Applicatio Data transfer system: 1008/ Connector shape: RJ	ystem log data and SRAM u hbient temperature: 25°C) 1ch 0/38400/19200/9600/4800b ion with connected devices, stallation, FA transparent fur 35, 1ch 0/38400/19200/9600/4800b n: Communication with conn SE-TX, 10BASE-T, 1ch ^{*3} 45 (modular jack) ateway function, connection	ps, connection to personal compu- ction) ps ected devices to personal computer	iter				
Built-in	Life RS-232 ^{*7} RS-422/485	Con	Tran nector shape: D-sub 9-pin (ma (project Tran Connector shap Application: Communica (project	ance time notification data, s Approx. S years (operating a) RS-232 mission speed: 115200/5760 e) Applicatio: Communicat data upload/download, OS in RS-422/4 mission speed: 115200/5760 e: 14-pin (temale) Applicatio Data transfer system: 1008/ Connector shape: RJ on with connected devices, data upload/download, OS in USB (full-speed 12	ystem log data and SRAM u holhent temperature: 25°C) 1ch 0/38400/18200/9600/4800b ion with connected devices, stallation, FA transparent fur 0/03400/19200/9600/4800b 75, 1ch 0/03400/19200/9600/4800b 75, 1ch 0/03400/19200/9600/4800b 745 (modular jack) gateway function, connection stallation, MES interface tun Mpspl, host 1ch	ps, connection to personal compu clon) ps ected devices >to personal computer ction)	der				
Built-in	Life RS-232 ⁷⁷ RS-422/485 Ethernet	Com	Tran nector shape: D-sub 9-pin (ma (project Tran Connector shap Application: Communica (project	ance time notification data, 3 Approx. 5 years (operating a mission speed: 1152003760 9) Application: Communicat data upload/download, OS in EX-82241 mission speed: 1152005770 EX-9210 (Sama) Applicatio Data transfer system: 10040 Connector shape: RJ Connector shape: RJ Connector shape: RJ Connector de devices, USB (full-speed I) Cut uSB (full-speed I) Cut shape: TVPE-A Application	system tog data and SRAM un nbient temperature: 25°C) - Ch 0:38400/19200/9800/4800b 0:000000000000000000000000000000000	ps, connection to personal compu clon) ps ected devices >to personal computer ction)	uter				
Built-in	Life RS-232 ^{*7} RS-422/485	Com	Tran nector shape: D-sub 9-pin (ma (project Tran Connector shap Application: Communica (project	ance time notification data, a Approx. 5 years (operating a mission speed: 11200/5740 e) Application: Communicat 11200/5740 e) Application: Communicat 11200/5740 entision opeed: 11200/5740 entision opeed: 11200/5740 entision opeed: 11200/5740 mission opeed: 11200/5740 Comedor shape: PL Comedor shape: PL Comedor shape: PL USB (ful-speed 12 USB (ful-speed 12 USB (ful-speed 12	ystem iog data and SRAM u heinet temperature: 25°C) .th 0284001920006014800b Stallation, FA transparent fur 55, 1ch 0x340019200096004800b 0x340019200096004800b 0x340019200096004800b 0x34001920096004800b 0x34001920096004800b 0x34001920096004800b 0x34001920096004800b 55°TA (10BAST, 11ch 35°TA (10BAST, 11ch 35°TA) 45 (motular jack) pateway function, connection stallation, MES interface fun Mpsp), dost ich	ps, connection to personal compu clon) ps ected devices >to personal computer ction)	der				
Built-in	Life RS-232 ⁷⁷ RS-422/485 Ethernet		Tran nector shape: D-sub 9-pin (ma (project Connector shap Application: Communica (project Conr	ance time notification data. 3 Approx. 5 years (operating a RS-322) entropy of the second second second second second second second entropy of the second second RS-42-bit (second second second Connector shape: RJ Data transfer system: 1008/ Connector shape: RJ Data transfer system: 1008/ Connector shape: RJ USB (full-speed 12) Lector shape: RJ Sign (full-speed 12) Connector shape: RJ USB (full-speed 12) Connector shape: RJ	ystem tog data and SRAM u hiert temperature: 25°C) . 105 . 00540019200/66004800b 005480019200/66004800b 005480019200/66004800b 005480019200/66004800b 005480019200/66004800b 8.5°C.TN 1008A25. T 101 ⁸ 45 (modular jack) apleway function, connection apleway function, connection apleway function, connection there and the state of th	ps. connection to personal compu- cition) ps excited devices to personal computer cition) ge	der				
Built-in	Life RS-232 ⁷⁷ RS-422/485 Ethernet		Tran nector shape: D-sub 9-pin (ma (project Tran Connector shap Application: Communica (project	ance time notification data. 3 Approx. 5 years (operating a RS-322) entropy of the second second second second second second second entropy of the second second RS-42-bit (second second second Connector shape: RJ Data transfer system: 1008/ Connector shape: RJ Data transfer system: 1008/ Connector shape: RJ USB (full-speed 12) Lector shape: RJ Sign (full-speed 12) Connector shape: RJ USB (full-speed 12) Connector shape: RJ	ystem tog data and SRAM u hiert temperature: 25°C) . 105 . 00540019200/66004800b 005480019200/66004800b 005480019200/66004800b 005480019200/66004800b 005480019200/66004800b 8.5°C.TN 1008A25. T 101 ⁸ 45 (modular jack) apleway function, connection apleway function, connection apleway function, connection there and the state of th	ps. connection to personal compu- cition) ps excited devices to personal computer cition) ge	nter				
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Built-in	Life RS-232 ⁷ RS-422485 Ethernet USB CF card		Tran nector shape: D-sub 9-pin (ma (project Connector shap Application: Communica (project Conr	ance time notification data, si Reports. 5 years (operating a Res 202 e) Report (Standard) (Standard) e) Application: Communication (Stati autobad/downad), OS in amission speed: 1152005760 Connector shape: RL E v1-pin (female) Application Data transfer system: 1004 Connector shape: RL Connector shape: RL Gala upobad/downad), OS in USB (full-speed T2) Connector shape: RL Connector sha	ystem tog data and SRAM ur Solo data and SRAM ur ten connected devices. 20/3400 1920/09600/4800b, 00/3400 1920/09600/4800b, 00/3400 1920/096004800b 00/3400 1920/096004800b 00/3400 1920/096004800b 00/3400 1920/096004800 00/3400 1920/09600 00/3400 1920/09600 00/3400 1920/09600 00/3400 1920/09600 00/3400 1920/09600 00/340000 00/3400 1920/09600 00/3400 192000 00/3400 192000 00/3400 192000 00/3400 192000 00/3400 192000 00/3400 192000 00/3400 1920000 00/340000000000000000000000000000000000	ps. connection to personal compu- cition) ps excited devices to personal computer cition) ge	der				
Built-in	Life RS-232 ⁷⁷ RS-422/485 Ethernet USB		Tran nector shape: D-sub 9-pin (ma (project Connector shap Application: Communica (project Conr	ance time notification data, s Approx. 5 years (operating an RS-322) entropy of the second second second resolution second second second resolution (second second second resolution) (second second resolution) (ystem tog data and SRAM ur Solo data and SRAM ur ten connected devices. 20/3400 1920/09600/4800b, 00/3400 1920/09600/4800b, 00/3400 1920/096004800b 00/3400 1920/096004800b 00/3400 1920/096004800b 00/3400 1920/096004800 00/3400 1920/09600 00/3400 1920/09600 00/3400 1920/09600 00/3400 1920/09600 00/3400 1920/09600 00/340000 00/3400 1920/09600 00/3400 192000 00/3400 192000 00/3400 192000 00/3400 192000 00/3400 192000 00/3400 192000 00/3400 1920000 00/340000000000000000000000000000000000	ps. connection to personal compu- cition) ps excited devices to personal computer cition) ge	der				
Built-in	Life RS-232 ⁷ RS-422485 Ethernet USB CF card		Tran nector shape: D-sub 9-pin (ma (project Connector shap Application: Communica (project Conr	ance time notification data, si Reports. 5 years (operating a Res 202 e) Report (Standard) (Standard) e) Application: Communication (Stati autobad/downad), OS in amission speed: 1152005760 Connector shape: RL E v1-pin (female) Application Data transfer system: 1004 Connector shape: RL Connector shape: RL Gala upobad/downad), OS in USB (full-speed T2) Connector shape: RL Connector sha	ystem tog data and SRAM u hiert temperature: 25°C) .10 .00 .003400192200/9600/4800b for with connected devices. 35, 10 normality of the sense of the sense statisticn, FA transparent fur 35, 10 normality of the sense SE-TX, 1008-527. 10 ¹⁸ 45 (modular jack) best TX, 1008-527. 10 ¹⁸ 45 (modular jack) best TX (1008-527. 10 ¹⁸ 45 (modular jack) best TX (1008-527. 10 ¹⁸) 45 (modular jack) 45 (modular jack) 46 (modular jack) 47 (modular jack) 46 (modular jack) 46 (modular jack) 47 (modular jack) 46 (modular jack) 47 (modular jack) 47 (modular jack) 47 (modular jack) 47 (modular jack) 48 (modu	ps. connection to personal compu- cition) ps excited devices to personal computer cition) ge	ner				
Built-in interface	Life RS-232 ⁷ RS-422485 Ethernet USB CF card Optional function board Optional function board		Tran nector shape: D-sub 9-pin (ma (project Connector shap Application: Communica (project Conr	ance time notification data, si Reports. 5 years (operating a Res 2023) end angload data poladidowinad, OS in Status poladidowinad, OS in Status poladidowinad, OS in Status poladidowinad, OS in Status poladidowinad, OS in Connector shape: RJ. Connector shape: R	ystem tog data and SRAM u holent temperature: 25'C) . Tch . OS/38400 1920:005600.4800b; OS/38400 1920:005600.4800b; MO2840019200.9600.4800b; MO2840019200.9600.4800b; MO2840019200.9600.4800b; MO2840019200.9600.4800b; MO2840019200.9600.4800b; MO2840019200.4800b; MO284000000000000000000000000000000000000	ps. connection to personal compu- cition) ps excited devices to personal computer cition) ge	der				
Built-in interface Buzzer outp	Life RS-232 ⁷⁷ RS-422485 Ethernet USB CF card Optional function board Extension unit ⁷ Mf		Tran nector shape: D-sub 9-pin (ma (project Connector shap Application: Communica (project Conr	ance time notification data, s Approx. 5 years (operating a RS 323 e) (15200/576) e) Application: Communicat 15200/576 e) Application: Communication RS 4224 minission speed: 15200/576 minission speed: 15200/576 minission speed: 15200/576 ministon speed: 15200/576 Data transfer system: 1068 Contector shape: TA Data transfer system: 1068 Contector shape: TA USB (full-speed 120 Connector shape: TA Connector shape: TA Connecto	ystem tog data and SRAM u holent temperature: 25°C) .10 .00 .003400192200/6600/4800b (003400192200/6600/4800b m. Communication with com m. Communication with com 55°CF, 1008-25°C, 1018° 45°(motorial pick) 45°(motorial pick	ps. connection to personal compu- cition) ps excited devices to personal computer cition) ge	ner				
Built-in interface Buzzer outp Protective c	Life RS-232 ⁷ RS-422485 Ethernet USB CF card Optional function board Ethernion unit ⁷ ut outputudion		Tran nector shape: D-sub 9-pin (ma (project Tran Connector shap Application: Communica (project Conr Application: Connection to pers	ance time notification data, si Reports. 5 years (operating a Res 2023) end angload data poladidowinad, OS in Status poladidowinad, OS in Status poladidowinad, OS in Status poladidowinad, OS in Status poladidowinad, OS in Connector shape: RJ. Connector shape: R	ystem tog data and SRAU ur (0.05400/1920/09600/4800b) (0.05400/1920/09600/4800b) (0.05400/1920/09600/4800b) (0.05400/1920/09600/4900b) (0.05400/1920/09600/4900b) (0.05400/1920/09600/4900b) (0.05400/1920/09600/4900b) (0.05400/1920/09600/4900b) (0.05400/1920/09600/4900b) (0.05400/1920/09600/4900b) (0.05400/1920/09600/4900b) (0.0540b) (0.0540b)	ps, connection to personal compu- ction) ected devices to personal computer ction) ge tion, FA transparent function)	der				
Built-in interface Buzzer outp	Life RS-232 ⁷⁷ RS-422485 Ethernet USB CF card Optional function board Extension unif ⁷ and construction mersions		Tran nector shape: D-sub 9-pin (ma (project Connector shap Application: Communica (project Conr	ance time notification data, s Approx. 5 years (operating a RS 323 e) (15200/576) e) Application: Communicat 15200/576 e) Application: Communication RS 4224 minission speed: 15200/576 minission speed: 15200/576 minission speed: 15200/576 ministon speed: 15200/576 Data transfer system: 1068 Contector shape: TA Data transfer system: 1068 Contector shape: TA USB (full-speed 120 Connector shape: TA Connector shape: TA Connecto	ystem tog data and SRAU ur (0.05400/1920/09600/4800b) (0.05400/1920/09600/4800b) (0.05400/1920/09600/4800b) (0.05400/1920/09600/4900b) (0.05400/1920/09600/4900b) (0.05400/1920/09600/4900b) (0.05400/1920/09600/4900b) (0.05400/1920/09600/4900b) (0.05400/1920/09600/4900b) (0.05400/1920/09600/4900b) (0.05400/1920/09600/4900b) (0.0540b) (0.0540b)	ps. connection to personal compu- cition) ps excited devices to personal computer cition) ge	Aer				
Built-in interface Buzzer outp Protective o External din (without US	Life RS-232 ⁷ RS-422485 Ethernet USB CF card Optional function board Ethernion unif ⁷ Mf montuction mensions B port cover)	397(W)×296(H)×61(D)[mm]	Tran nector shape: D-sub 9-pin (ma (project Connector shap Application: Communica (project Connector shap (project Connector to pers 316(W)x242(H)x52(D)[mm]	ance time notification data, s Approx. 5 years (operating at RS 322) entropy of the second second second resolution second resolution RS 4224 applead/downald, OS in RS 4224 minission speed: TIS2005740 resolution and resolution and second RS 4244 applead/downald, OS in Data transfer system: 10046 Connector single: TA Data transfer system: 10046 Connector single: TA Data transfer system: 10046 Connector single: TA Connector sin	ystem tog data and SRAU u OS4400 1920/0560/4800b (054400 1920/0560/4800b (054400 1920/0560/4800b (054400 1920/0560/4800b (054400 1920/0560/4800b (054800 1920/0560/4800b (054800 1920/0560/4800b (054800 1920/0560/4800b (054800 1920/1560 1920) ateway function, constant ateway function, constant (0560 1920 1920) (0560 1920 1920) (0560 1920 1920 1920 1920 1920) (0560 1920 1920 1920 1920 1920 1920) (0560 1920 1920 1920 1920 1920 1920 1920 192	ps, connection to personal compu- ction) ps ected devices to personal computer ction) ge tion, FA transparent function) H)×49(D)(mm]	Aer				
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Power supply specifications

				Specification			
Item	GT1695M-XTBA	GT1685M-STBA	GT1675M-STBA GT1675M-VTBA GT1675-VNBA GT1675-VNBA GT1665M-STBA GT1665M-VTBA GT1665M-VTBA GT1662-VNBA	GT1695M-XTBD	GT1685M-STBD	GT1675M-STBD GT1675-VNBD GT1675-VNBD GT1672-VNBD GT1665M-STBD GT1665M-VTBD GT1662-VNBD	GT1665HS-VTBD
Input power supply voltage	1	00 to 240VAC (+10%, -15%	6)		24VDC (+25%, -20%)		24VDC (+10%, -15%)
Input frequency		50/60Hz ±5%				-	
Input maximum apparent power	150VA (at max. load)	110VA (at max. load)	100VA (at max. load)				
Power consumption	64W or less	46W or less	39W or less	60W or less	40W or less	38W or less	11.6W or less
With backlight off	38W or less	32W or less	30W or less	30W or less	26W or less	27W or less	8.2W or less
Innush current		28A or less		12A or less		or less	30A or less
		(4ms, at max. load)		(75ms, at max. load)	(55ms, at	max. load)	(2ms, at max. load)
Permissible instantaneous failure time	w	ithin 20ms (100VAC or mo	re)	Within 10ms Within 5ms			
Noise resistance	Noise voltage 1500Vp	p-p, noise width 1µs by nois frequency 25 to 60Hz	e simulator with noise	Noise voltage 500Vp-p, noise width 1µs by noise simulator with noise frequency 25 to 60Hz noise frequency 30 to 60Hz			
Withstand voltage	1500VAC for 1 min	ute between power supply	terminal and ground	500V	DC for 1 minute between p	ower supply terminal and	ground
Insulation resistance		10M Ω or high	gher with an insulation resis	stance tester (500VDC betw	een power supply terminal	and ground)	
Applicable wire size				0.75 to 2 [mm ²]*1			
Clamp terminal			Clamp terminals for M	3 screw RAV1.25-3, V2-S3.	3, V2-N3A, FV2-N3A*1		
Tightening torque (terminal block's terminal screws)				0.5 to 0.8 [N•m] ^{*1}			
*1: Excluding GT1665HS							

Performance specifications

USB (project data upload download, OS installation, MES interface Nuncion) (unesdo solvata, guilas) unesdo solvata, guilas) USB USB (full-speed 12Mtps), host 1ch Comector shape: TVPE-A Application: Data transfer and storage USB USB (full-speed 12Mtps), host 1ch Comector shape: TVPE-A Application: Data transfer and storage USB USB (full-speed 12Mtps), divide 1ch Comector shape: TVPE-A Application: Data transfer and storage USB (USB (full-speed 12Mtps), divide 1ch Comector shape: TVPE-A Application: Data transfer and storage USB (USB (full-speed 12Mtps), divide 1ch Compact flash std; 1ch, Convector shape: TVPE-I Application: Data transfer and storage (CSI startup) Optional function baser 1ch for coptional function baser frastallation Extension unit? 2ch for communication unitofplation Extension unit? 2ch for communication unitofplation Extension unit? JEM1030 Fordt: IP67(¹⁶ In panel: IP2X Granding manage without USB protower) 241(V)(V):54(V)(FOI(V)) 201(VP):22(V):VF0(V)(V):52(V)(V)(V) 201(V):22(V):VF0(V)(V) Panel (cut mensions 227(V):V70(V)(V) 21(V):V20(V):V70(V)					fication				
Type Type The control LCD (thigh-beg/these, with weining angle) TT Color LCD (thigh-beg/these, with weining angle) Screen size Screen size SVGA 600-600 [Gos] 8.4" Color 100 6.5" Display size 16-dot standard fort: 11-25 (UV)-034 (Highm) 11-25 (UV)-044 (Highm) 11-25 (UV)-044 (Highm) Display size 16-dot standard fort: 11-25 (UV)-044 (Highm) 12-25 (High-044 (Highm) 12-25 (High-044 (Highm) Display colorn 66-35 colorn 16-dot standard fort: 0-100 (High-044 (Highm) 12-25 (High-044 (Highm) 12-25 (High-044 (Highm) 12-25 (High-044 (High-044 (Highm)) 12-25 (High-044 (Hi		Item				GT1665HS-VTBD			
Resolution SVACA 800-800 [dots] VCAC 800-800 [dots] Display size 10 112 S((M):60.4(H)[mm] No. of displayed branceters 16.4 dot standard fort: 12.4 dot standard fort: 30 than x-30 lines (2-byte) 12.5 S((M):60.4(H)[mm] Display colors 6.6538 colors 16.4 dot standard fort: 30 than x-40 lines (2-byte) View angle 2 Registrate: 0.9538 colors 18.2 dot standard fort: 30 than x-40 lines (2-byte) Intensaty display colors 6.6538 colors 19.6000 Intensaty display colors 6.6538 colors 19.60000 Intensaty display colors 6.6538 colors 19.60000 Intensaty display colors Approx 5.000 hours (operating ambient temperature: 25 C) 0.000(clm ²) 2.000 hours (operating ambient temperature: 25 C) Backlight Life 3 (Time of display intensity reaches 50% at operating ambient (operating ambient temperature: 25 C) 12.65 Singlasment (operating ambient temperature: 25 C) Touch panel Ype Approx 5.000 hours of more (operating ambient temperature: 25 C) 12.65 Singlasment (operating ambient temperature: 25 C) Touch panel Ype Approx 5.000 hours of more (operating ambient temperature: 25 C) 12.65 Singlasment (operating ambient temperature: 25 C)		Туре			TFT color LCD	(high-brightness, wide			
Display size 171(V):128/H(m) 11:22 (V):994.(H(m)) No. of signifyed 50 chars.37 lines (2-byte) 16-dot standard fort: 50 chars.37 lines (2-byte) 16-dot standard fort: 50 chars.37 lines (2-byte) 16-dot standard fort: 50 chars.37 lines (2-byte) Display colors 60 chars.30 lines (2-byte) 12-dot standard fort: 30 lines (2-byte) 12-dot standard fort: 30 lines (2-byte) Titlensity 60 chars.30 lines (2-byte) 12-dot standard fort: 30 lines (2-byte) 205(carb) Titlensity 400 charm 600(charm) 205(carb) 5500 chars. Paper 42 chara Titlensity 400 charm 600(charm) 4.600 charm 600(charm) Lile Approx.43.000 hours (operating ambient temperature: 2F C) Down: 60' 100 hours (operating ambient temperature: 2F C) Backlight Cold-carbode facorescent bab (roplaceable), with backlight CFF detection function. (Display for antianeous tool prohibind * CP C)		Screen size		8.4"		6.5"			
No. of displayed branchers 16-dot standard fort: 40 thanchers 16-			SVGA: 800×600 [dots]		VGA: 640×480 [dots]				
No. of displayed heraders 60 chars.x30 lines (2-byte) 12-obt standard hot: 60 chars.x50 lines (2-byte) 12-obt standard hot: 70 chars.x50 lines (2-byte) 70 cha		Display size		132.5((W)×99.4(H)[mm]					
View angle 2 Rightleft: 60°, Up: 60°, Down: 60° Rightleft: 40°, Up: 60°, Down: 60° Rightleft: 40°, Up: 60°, Down: 80° Internsity adjustment 400 (calm?) 200 (calm?) 250 (calm?) 550 (calm?) Internsity adjustment 4-step adjustment	Display ^{*1}		50 chars.×37 lines (2-byte) 12-dot standard font:						
Verw angle* Right left: 60' Up: 80' Up: 80' Up: 80' Up: 80' Up: 80' Up: 80' Down: 80' Solidity' So		Display colors	65536 c	colors	16 colors	65536 colors			
Intensity 400 (cdm ²) 000(cdm ²) 200(cdm ²) 650(cdm ²) Intensity adjustment Approx. 43.000 hours (operating ambient lemperature: 25 C) Approx. 41.000 hours (operating ambient lemperature: 25 C) Coll Coll <t< td=""><td></td><td>View angle^{*2}</td><td>Right/left: 80°, Up:</td><td>80°, Down: 60°</td><td></td><td></td></t<>		View angle ^{*2}	Right/left: 80°, Up:	80°, Down: 60°					
Internally adjustment 8-step adjustment 4-step adjustment 4-step adjustment 4-step adjustment 4-step adjustment 4-step adjustment Approx. 5200 hours (operating ambient temperature: 25°C) Backlight Col6-cathode fluorescent tube (replaceable), with tox8dph COFF adjection function. Backlight		Intensity	400 [cd/m ²]	600[cd/m ²]					
Life Approx. 45.000 hours (operating ambient temperature: 25 C) Approx. 41.000 hours (operating ambient temperature: 25 C) Backsight Cold-ambient (temperature: 25 C) Life 3 L		Intensity adjustment							
Backlight Backli			Approx. 43,000 hours (operating ambient		Approx. 52,000 hours (operating ambient	Approx. 41,000 hours (operating ambient			
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Life Time for display intensity reaches 50% at operating ambient temperature of 25:C) - Touch panel No of simultaneous Simultaneous touch prohibited 4 (1 point only) No. of simultaneous Simultaneous touch prohibited 4 (1 point only) Life 1.000.00 times of more (operating force 0.98N or less) Detection future - Backed up data Clock data maintenneov (for saving project data and CS). - R5-2217 R5-2217 R5-2218 - Application: Communication with connected devices, garatery R5-4221485.10h - R5-4221485.10h Transmission page: 11520015/F000364001/2200060044000ps - R5-4221485.10h Connector shaps: R-145 (moldar jeth)	Backlight				Approx.40,000 hours or more	-			
Type Analog resistive type Touch panel Ne of annultaneous touch points Simultaneous touch points Simultaneous touch points 10 Detection distance 1,000.000 times or more (operating force 0.98N or less) Human sensor Detection distance 1,000.000 times or more (operating force 0.98N or less) Human sensor Detection distance 1,000.000 times or more (operating force 0.98N or less) Detection range 1 100.000 times 100.000 times Detection temperature 100.000 times 100.000 times 100.000 times Crime Clock data, maintenance time notification data, system log data and SN Life 1No of writings) Clock data, maintenance time notification data, system log data and SN Connector shape. 2000/57600/3840019200980048005ps, Connector shape. 2000/57600/3840019200980048005ps, Connector shape. 2000/57600/3840019200980048005ps, Connector shape. 2000/19200980048005ps, Connector shape. 2000/19200980048005ps, Connector shape. 2000/19200980048005ps, Connector shape. 2000/19200980048005ps, Connector shape. 2001/19200980048005ps, Connector shape. 2001/192001920000048005ps, Connector shape. 2001/192001920000048005ps, Connector shape. 2001/19200019200000048005ps, Connector shape. 2014/1920001920000004800		Life ^{'3}				-			
Ney size Mey size Mey size No C drive Simultaneous and study prohibited *1 (1 point only) Life 1.000.000 times or more (operating force 0.98N or less) Life 0.000.000 times or more (operating force 0.98N or less) Life (No. of windianous) 1.000.000 times or more (operating force 0.98N or less) Life (No. of windianous) 1.000.000 times or more (operating force 0.98N or less) Detection rangementer 0.000.000 times or more (operating force 0.98N or less) Detection rangementer 1.000.000 times or more (operating force 0.98N or less) Life (No. of windigs) 1.000.000 times or more (operating force 0.98N or less) Statery Backed up data Clock data, maintenance with rangement timeson (operating project data and CS). R5-2227 R5-221 Transmission page 1132001570000540001720006004000ps, (maintor space 1132001570000540014200060004000ps, (maintor space 1132001570000540014200050004000ps, (maintor space 1132001570000540014200050014000ps, (maintor space 113200157000154001420015000000040000ps, (maintor space 11320015700005400142000500140000ps, (maintor space 11320015700015400142001500000040000ps, (maintor space 11320015700005400142000500140000ps, (maintor space 11320015700005400142000500140000ps, (maintor space 11320015700015400142000500140000ps, (maintor space 11320015700015400142000500140000ps, (maintor space 113200157000154000152000500140000ps, (maintor space 1132001570000154001120000500140000ps, (maintor space 113200157000		Type	,			1			
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U Simultaneous touch promise ("f pont only) Life 1.000.00 times or more (operaing force 0.98N or less) Uman sensor Detection delarice - Detection delay time - - Life (No of wrings) 15MB built-In flash memory (for saving project data and OS) 15MB built-In flash memory (for saving project data and OS) 15MB built-In flash memory (for saving project data and OS) 15MB built-In flash memory (for saving project data and OS) 15MB built-In flash memory (for saving project data and OS) 15MB built-In flash memory (for saving project data and OS) 15MB built-In flash memory (for saving project data and OS) 15MB built-In flash memory (for saving project data and OS) 15MB built-In flash memory (for saving project data and OS) 15MB built-In flash memory (for saving project data and OS) 15MB built-In flash memory (for saving project data and OS) 15MB built-In flash memory (for saving project data and OS) 15MB built-In flash memory (for saving project data and OS) 15MB built-In flash memory (for saving project data and OS) 15MB built-In flash memory (for saving project data and OS) 15MB built-In flash memory (for saving project data and OS) 15MB built-In flash memory (for saving project data and OS) 15MB built-In flash memory (for saving project data and OS) 15MB built-In flash project data and OS 15MB built-In flash project data and OS 15MB built-In flash prod data and SNAH user area (5DONE) 15MB		No. of simultaneous							
Detection regime Image Human sensor Detection regime - Human sensor Detection regime - Attention to delay time - - Detection regime - - Attention to the sensor (for saving project data and CS) (100 difficient control to the sensor project data and CS) (90 difficient control to the sensor project data and CS) (90 difficient control to the sensor project data and CS) (90 difficient control to the sensor project data and CS) (90 difficient control to the sensor project data and CS) (90 difficient control to the sensor project data and CS) (90 difficient control to the sensor project data and CS) (90 difficient control to the sensor project data and CS) (90 difficient control to the sensor project data and CS) (90 difficient control to the sensor project data and CS) (90 difficient control to the sensor project data and CS) (90 difficient control to the sensor project data and CS) (90 difficient control to the sensor project data and CS) (90 difficient control to the sensor project data and CS) (90 difficient control to the sensor project data and CS) (90 difficient control to the sensor project data and CS) (90 difficient control to the sensor project data and CS) (90 difficient control to the sensor project data and CS) (90 difficient control to the sensor project data and CS) (90 difficient control to the sensor	10	touch points							
Juman sensor Detection range Detection range Detection range type			1	,000,000 times or more (o	perating force 0.98N or less)				
Balterior Detection design time - Atmony ¹⁶ C dive 15MB built-in flash memory (fr stand project data and OS) 15MB built-in flash memory (fr stand project data and OS) 15MB built-in flash memory (fr stand project data and OS) 15MB built-in flash memory (fr stand project data and OS) 15MB built-in flash memory (fr stand project data and OS) 15MB built-in flash memory (fr stand project data and OS) 15MB built-in flash memory (fr stand project data and OS) 15MB built-in flash memory (fr stand project data and OS) 15MB built-in flash memory (fr stand project data and OS) 15MB built-in flash memory (fr stand project data and OS) 15MB built-in flash memory (fr stand project data and OS) 15MB built-in flash memory (fr stand project data and OS) 15MB built-in flash memory (fr stand project data and OS) 15MB built-in flash memory Istelev Exclose 1 Clock data, mainteneneed events connection present data and OS 15MB built-in flash memory					-				
Detection temperature 15MB built-In flash memory (for saving project data and 05) 15MB built-In flash memory (for saving project data and 05) 15MB built-In flash memory (for saving project data and 05) 15MB built-In flash memory (for saving project data and 05) 15MB built-In flash memory (for saving project data and 05) 15MB built-In flash memory (for saving project data and 05) 15MB built-In flash memory (for saving project data and 05) 15MB built-In flash memory (for saving project data and 05) 15MB built-In flash memory (for saving project data and 05) 15MB built-In flash memory (for saving project data and 05) 15MB built-In flash memory (for saving project data and 05) 15MB built-In flash memory (for saving project data and 05) 15MB built-In flash memory (for saving project data and 05) 15MB built-In flash memory (for saving project data and 05)	luman sensor				-				
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C drive (for saving project data and Gs) (for saving project data and Gs) <t< td=""><td></td><td>Detection temperature</td><td>46MD b 1911 0</td><td></td><td>- AMMO Is 25 in Reach and</td><td>AFMD kult in Back an</td></t<>		Detection temperature	46MD b 1911 0		- AMMO Is 25 in Reach and	AFMD kult in Back an			
Life (No. of writings) 100.000 times Sattery Backal up data Clock data, maintenance time notification data, system log data and SRAM user area (500KB) Life Backal up data Clock data, maintenance time notification data, system log data and SRAM user area (500KB) Life Backal up data Clock data, maintenance time notification data, system log data and SRAM user area (500KB) Life Backal up data Connector shape. Sub d-Spin (mais) Maintenance time status (Status Care) R5-232 R5-232 Transmission speed: 115200/F300/184001/9200960/4800/ps. Connector shape. Sub d-Spin (mais) (Wai suig space, 42p in (mais)) R5-422/485 Transmission speed: 115200/F300/184001/9200960/4800/ps. Connector shape: 14-5pin (female) Application: Communication with connected devices. Connector shape: 14-5pin (female) Moissi Sub	Memory ^{*5}	C drive							
Backed up data Clock data, maintenance time notification data, system log data and SRAU user ran (600KB) Life Approx. System (certain pamber threpset) and SRAU user ran (600KB) Life Approx. System (certain pamber threpset) and SRAU user ran (600KB) RS-232.7 RS-232.1 th Transmission speed: 1152/00576003460015200960048000pg, Connector shape: Daub By Find By F		Life (No. of writings)							
Life Approx. 5 years (operating ambeint temperature: 28° C) R5-232 7 R5-232 17 Transmission participation (Monardia Series) (Series) (S									
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R8-232*7 Connector shape: D-sub 9-pin (male) Application: communication with connected devices. (cropect data upload/download, OS instalation, F-A transparent function) Temperature of the memory of the state of the devices of		Life							
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Built-in interface Eventue galeway function, connection to personal computer (project data upbad/downoad, OS installation, MSS interface function) monst. does a galeway to mode (upper) USB USB (full-speed 12Mpps), host 1ch Comector them, TVPE A Application. Data transfer and storage USB (full-speed 12Mpps), device 1ch USB (full-speed 12Mpps), device 1ch Comector them, TVPE A Application. Data transfer and storage (project data upbad/downoad, QS installation, FA transparent function) CF card Comector translation to personal computer (project data upbad/downoad, QS installation, FA transparent function) CF card Comector translation to personal computer (project data upbad/downoad, QS installation, FA transparent function) CF card Comector translation Extension unit ⁷ 2ch for communication unlegations (comector translation) Extension unit ⁷ 2ch for communication unlegations (comector translation) Protective construction JEM1030 Ford: HP7f ¹⁶ In gane): H22X EM0030 P6f ³ leve attent computer (project data upbad/downoad, QS installation) Protective construction JEM1030 Ford: HP7f ¹⁶ In gane): H22X Comector translation concept ages (full-speed 12Mpp); downoad (community translation) Protective construction JEM1030 Ford: HP3f ¹⁶ In gane): H22X Comector translation concept ages (full-speed 12Mpp); downoad (community translation) Protective construction Streset design soft		RS-422/485	Transmission speer Connector shape: 14-pin (femu Data transfer	RS-422/485, 1ch d: 115200/57600/38400/19 ale) Application: Communis system: 100BASE-TX, 10	200/9600/4800bps cation with connected devices BASE-T, 1ch	57600/38400/19200/9600/ 4800/bps Connector shape: Square, 42-pin (male) Application: Communication with connected devices Data transfer system: 1008ASE-TX, 108ASE-T, 1ch			
USB (project data upload/download, OS Installation, MES Interface Innucion) Understandows, galaxie) upper project data upload/download, Description of the product of the product download, OS Installation, Connector shape: TVPE I. USB USB (full-speed 12Mpop), host 1ch Connector shape: TVPE I. Application: Connector shape: TVPE I. USB Connector shape: TVPE I. Application: Connector shape: TVPE I. CF card Connector shape: TVPE I. Application: Connector shape: TVPE I. Optional function board Chi restallation - Extension unit? 2ch for communication unit/protonal function board I. Single tome (too length adjustable) - Protective construction JEM1030 Front: IP617 th In panel: IP2X EMI030 P667 th (Interesting and construction) EMI030 P667 th In panel: IP2X Extensions 241(W)+190(H)+52(D)(mm) 21(W)+23(D)+57(D)(mm) 21(W)+23(D)+57(D)(mm) Meeting data shotes 21(W)+17(H)(H)=10(H)+52(D)(mm) 1.2[bg] (main unit on-ty) Weight (ext: mounting brackets) 1.7[bg] 1.2[bg] (main unit on-ty)			Transmission speer Connector shape: 14-pin (fem Data transfer Conne	RS-422/485, 1ch d: 115200/57600/38400/19 ale) Application: Communi system: 100BASE-TX, 10 ctor shape: RJ-45 (modula	200/9600/4800bps cation with connected devices BASE-T, 1ch r jack)	57600/38400/142009600/ 4800bps Connector shape: Square, 42-pin (male) Application: Communication with connected devices Data transfer system: 1008ASE-T, 1ch Connector shape: Square, 42-pin (male)			
Butter output Connector shape: TVPE-A Application: Data transfer and storage USB USB (full speed TXDps), device 1ch Connector shape: TVPE [Min-B Application: Connector shape: TVPE [Min-B Application: Connector shape: TVPE [Application: Connector shap	Built-in interface		Transmission speer Connector shape: 14-pin (fem Data transfer Conne Application: C	RS-422/485, 1ch d: 115200/57600/38400/19 ale) Application: Communi system: 100BASE-TX, 10 ctor shape: RJ-45 (modula communication with conne	200/9600/4800bps cation with connected devices BASE-T, 1ch r jack) ted devices,	57600739400/1522005600/ 4800bps Connector shape: Square, 42-pin (male) Application: Communication with connected devices Data transfer system: 1008ASET.YL 108ASET. (To Connector shape: Square, 42-pin (male)			
USB USB (UII-speed 12Mpoin), device 1ch Connect anapr. TYPE Mini Application: Connection to personal computer (crysted data updata download), download to installation, faith instagament function) CF and Compact fash site, 1ch, Connector shape: TYPE II (optional function based) Optional function based Compact fash site, 1ch, Connector shape: TYPE II (optional function based) Optional function based 1ch for gorbound function based in the statistation Extension unit? Protective construction JEM030 Front: IPS? ¹⁰ In pane: IPSX Protective construction JEM030 Front: IPS? ¹⁰ In pane: IPSX Device data site in the statistation state of data site in the state	Built-in interface		Transmission speec Connector shape: 14-pin (fem Data transfer Conne Application: gateway fun gateway fun	RS-422/485, 1ch d: 115200/57600/38400/19 ale) Application: Communi- system: 100BASE-TX, 10 ctor shape: RJ-45 (modula communication with come- tion, connection to person roject data upload/downloa tallation, MES interface fur	200/9600/4800bps aation with connected devices BASE-T, 1ch r jack) ted devices, al computer d, ction)	57600344001120005600/ 400056 Connector shape: Square, 42-pin (male) Data transfer system: 1006ASE-TX, 108ASE-T, 1ch Connector shape: Square, 42-pin (male) Application: Communication with connected obvious, gateway function, connector to personal computer (project data uplication)			
Use Connector shape: TYPE Imi-8 Application: Connection to personal computer (project data upload(download, QS installation, FA transparent function) CF card Compact flash sidt, (FA, Connector shape) Optional function to based 1-16 corport shape sidt, (FA, Connector shape) Optional function to based 1-16 corport shape sidt, (FA, Connector shape) Extension unit? 2-ch for communication unit/optional unit installation Buzzer output Single torne (torne length adjustable) Buzzer output JEM1000 Front: IP671 ^{r6} In panel: IP2X Censide messes (whou US8 portow) 241(W)/190(H)+552(D)[mm] 201(W)+23(H)+597(D)[mm] Protective construction 127(W)+23(H)+52(D)[mm] 12(W)+23(H)+597(D)[mm] Merginication 1-7[fog] 1.8[fog] 1.2[fog] (main unit only) Weight (excl: mounting brackets) 1.7[fog] 1.2[fog] (main unit only)	Built-in interface		Transmission speec Connector shape: 14-pin (tem Data transfer Application: g gateway fun OS ins	RS-422485, 1ch d: 115200/37800/38400/19 ale) Application: Communi system: 100BASE-TX, 10 ctor shape: RJ-45 (modula communication with come clin, connection to person oject data upload/downloa tallaton, MES interface fur USB (full-speed	200/9600/4800bps aation with connected devices BASE-T, 1ch r jack) ted devices, at computer d, ction) 12Mbps), host 1ch	57003540/15203560/ 480/05 Cornetor Stage: Square, 42-pin (mail) Application: Communication with connected devices Data transfer system: UDBASE: Tr. MORASE: 1: th Cornetor Stage: Square, 42-pin (mail) Application: Communication with connected devices, gateway function, connection to personal download, OS installation)			
(project data upicad/owniod, OS installation, FA traingerent function) CF eard Comport fails tiet, if C, connector shape. TVFE [Application: Data trainfer, data storage, GOT starturg Optional function board 1-th for optional function baser Extension unit ²⁷ 2ch for communication unit/pointal unit installation suzzer output Single tone (loce length adjustable) Protective construction JEM1000 Front: IP67f ⁴ in panel: IP2X Series of anismess (which USB portow) 241(W)/190(H)/H52(D)[mm] Protective constructions 227/W)/1769(H[mm] Rect undersions 1.7[kg] Streame Sign Storeme (sign software Community Tracket (streamed)	Suit-in interface	Ethernet	Transmission speec Connector shape: 14-pin (tem Data transfer Application: g gateway fun OS ins	RS-422485, 1ch d: 115200/37800/38400/19 ale) Application: Communi system: 100BASE-TX, 10 ctor shape: RJ-45 (modula ctor shape: RJ-45 (modula ctor shape: RJ-45 (modula diaton, MS interface fur lattor, MS interface fur USB (full-speed T, USB (full-speed T,	200/9600/480/bps aation with connected devices BASE-T. 1ch r jack) .ted devices, al computer d, ction) 12Mbps), host 1ch lication: Data transfer and st Mpbp), device 1ch	57003540/15203560/ 480/05 Cornetor Stage: Square, 42-pin (mail) Application: Communication with connected devices Data transfer system: UDBASE: Tr. MORASE: 1: th Cornetor Stage: Square, 42-pin (mail) Application: Communication with connected devices, gateway function, connection to personal download, OS installation)			
CF card Compact flash lati, fci, Consector shape: TYPE I Optional function board Application: Data transfer, data storage, GOT startup Optional function board 1ch for optional function board metallation Extension unit? ⁷⁷ 2ch for communication unit/optional unit installation Buzzer output Single tone (one length adjustable) Protective construction JEM1030 F07dt: IP67f ⁶ in panel: IP2X Construction JEM1030 F07dt: IP67f ⁶ in panel: IP2X Optional function board 241(W)x190(H)x52(D)[mm] Solid construction 221(W)x20(H)x97(D)[mm] Meal cut dimensions 227(W)x176(H)[mm] Veipht (excl. mounting brackets) 1.7[kg] 1.2[kg] (main unit only) 1.2[kg] (main unit only)	Built-in interface	Ethernet	Transmission speec Connector shape: 14-pin (tem Data transfer Application: g gateway fun OS ins	RS-422485, 1ch 4: 115200/67600/2640019 ale) Application: Communi system: 100BASE-TX, 10 clor shape: RJ-45 (modula communication with conne- ction, connection to person connection to person cipet data upload/downloa talilation, MES interface tru USB (full-speed USB (full-speed USB (full-speed USB (full-speed) USB (full-speed) Connecter shap	200/0600/4600/bps atlan with connected devices BASE-T, 1ch r jack) ted devices, al computer d, tetion) 12Mbps), host 1ch lication: Data transfer and str. 2Mbps), device 1ch er: TYPE Min-B	57003540/15203560/ 480/05 Cornetor Stage: Square, 42-pin (mail) Application: Communication with connected devices Data transfer system: UDBASE: Tr. MORASE: 1: th Cornetor Stage: Square, 42-pin (mail) Application: Communication with connected devices, gateway function, connection to personal download, OS installation)			
Optication Application: Data transfer, data storage, GOT startup	Built-in interface	Ethernet	Transmission speec Connector shape: 14-pin (fem Data transfer Application: C gateway fur OS ins Conne	RS-422485, 1ch 1: 115200/87600/28400/19 ale) Application: communia system: 100BASE-TX, 10 clor shape: RJ-45 (modula communication with conne- communication with conne- communication with conne- communication with conne- communication with conne- tion and the system USB (full-speed T Connecter shape: TVFE-A App USB (full-speed T Connecter connection connectio	200/0600/4800bps aation with connected devices BASE-T, 1ch r jack) BASE-T, 1ch r jack) BASE-T, 1ch r jack) BASE-T, 1ch r jack) Case of the second second second connected devices at devices devices connected devices	5760036401192006600 480000 Application: Commanication with Listal Standard Standard Standard Listal Standard Standard Standard 1004ASE TX, 1014ASE T, to Cometor Inage: Standard Standard Cometor Inage: Standard Standard Application: Communication with connected devices, galeney Inceton, connection be personal computer (project data gaload download, DS installation) wrage			
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Extension unit ¹⁷ 2ch for communication unfoptional unit installation - Stagge output Single fone (tone length adjustable) - Protective construction JEM1030 Front. IPS/ ¹⁶ In panet. IP2X - Strengt administration JEM1030 Front. IPS/ ¹⁶ In panet. IP2X - Strengt administration JEM1030 Front. IPS/ ¹⁶ In panet. IP2X - Strengt administration 241(W)+190(H1+S2(D)[mm] - - Area (ut dimensions 227(W)+170(H1[mm] 1.2[bg] (1.3.12[bg] (main unit only) Velphicable Screen design software - -	Built-in interface	Ethernet	Transmission speec Connector shape: 14-pin (fem Data transfer Application: C gateway fur OS ins Conne	RS-422485, tch 1: 115200576803340019 iei) Application: Communi alie) Application: Communi system: 100BASE-TX, 10 dors shape: RJ-46 (module dors connection to person vise d statu updasddownica List (ind-speed 1 Connector tabu USB (fild-speed 1 Connector tabu USB (fild-speed 1 Connector tabu Compact filate kiol, 1ch,	200/9600/4800bps aation with connected devices BASE-T, 1ch r jack) aud onsputer d, automputer d, automputer installation, FA transparent installation, FA transparent automputer installation, FA transparent	5760036401192006600 480000 Application Communication with Listal Standard Standard Standard Listal Standard Standard Standard Cometor Inages Standard Standard Cometor Inages Standard Standard Application: Communication with connected devices, galeney Inceton, connection be personal computer (project data gaload download, DS installation) wrage			
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Interfactive construction JEM 1030 Front: IP671 ⁶ in panel: IP2X IEMI030 Front: IP671 ⁶ in panel: IP2X Seried dimensions (whold USB part lower) 241(W)x190(H)x452(D)[mm] 201(W)x200(H)x27(D)[mm] and cut dimensions 227(W)x170(H)r17(H)r	Built-In Interface	Ethernet USB CF card Optional function board	Transmission speec Connector shape: 14-pin (fem Data transfer Application; gateway tur OS ins Conne (project t	RS-422485, tch t: 115200576003840019 iei) Application: Communi apatem: 100845E.T.10 tch shape: RL45 (modula tch, aconection to person reject data upload/dominot USB (ful-speed Tabulasten: YEFA. Application: Connectic taba upload/dominot.02 USB (ful-speed Compact fiaba locit, 10-4 Application: Connectic taba upload/dominot.02 Bromart fiaba locit, 10-4 Application: Connectic taba upload/dominot.02 Bromart fiaba locit, 10-4 Application: Connectic	200/9600/480/hps aation with connected devices BASE-T, 1ch r jack hives, al computer d, ction) 12Mpps, host 1ch lication: Data transfer and st ZMpps, device 1ch pe: TYPE Mini-B In to personal computer installation, FA transparent for data storage, GOT startup allation	5760036401192005600 480005 Connector stage: Square, 42-pin Application: Communication with Connector stage: Square, 42-pin 1026ASS-TX: 1026ASS-TI 1026ASS-TX 1026ASS-TX: 1026ASS-TX 00metor stage: Square, 42-pin (maile) Connector stage: Square, 42-pin (maile) Connector stage: Square, 42-pin (maile) Application: Communication with connected devices, gateway munchico, CS installation) vrage			
Joseph Countries Jen ILOS / Trolls. IPP / III parties. IP / 2 concerting gable strate) Partiel dimensions 241(V)*190(H)+52(2)[0]mm] 201(W)*230(H)+57(0)[mm] Partiel cut dimensions 227(W)+176(H)[mm] 211(W)*230(H)+57(0)[mm] Velight facult. mounting brackets) 1.7[kg] 1.8[kg] 1.2[kg] (mail unit only) Splitizable Screen design software Cores design software Cores design software		Ethernet USB CF card Optional function board	Transmission speec Connector shape: 14-pin (fem Data transfer Application; gateway tur OS ins Conne (project t	RS-422485, 1ch 1: 115200376003840019 iei) Application: Communi application: Communi communication with comme communication with comme USB (full-speed consector shape: R-14-45 (consector shape) USB (full-speed USB (full-speed USB (full-speed Concenter shap Application: Contention Compared fash skot, 1ch, 1 Speciation: Content fash skot, 1ch, 1 Speciati	200/9600/4800bps attion with connected devices BASE-T, 1ch rjock) ted devices, al computer d, citcion) 12Mbps), host 1ch fication: Data transfer and sto citcion) 12Mbps), host 1ch fication: Data transfer and sto per TYPE Min8 In to personal computer installation, FA transparent fi Connector shape: TYPE I data storage, GOT startup allation	5760036401192005600 480005 Connector stage: Square, 42-pin Application: Communication with Connector stage: Square, 42-pin 1026ASS-TX: 1026ASS-TI 1026ASS-TX 1026ASS-TX: 1026ASS-TX 00metor stage: Square, 42-pin (maile) Connector stage: Square, 42-pin (maile) Connector stage: Square, 42-pin (maile) Application: Communication with connected devices, gateway munchico, CS installation) vrage			
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Weight (excl. mounting brackets) 1.7[kg] 1.8[kg] 1.2[kg] (main unit only) Applicable Screen design software 000000000000000000000000000000000000	Buzzer output Protective construc	Ethernet USB CF card Optional function board Extension unit?	Transmission speec Connector shape: 14-pin (fem Data transfer Conne Application: C gateway for OS ins Conne (project c 1ch for 2ch for comm	RS-422/485, 1ch 11 152/007600/348/00119 int 11 152/007600/348/00119 int 11 152/007600/348/00119 int 11 11 11 11 11 11 11 11 11 11 11 11 11	200/9600/4800bps attion with connected devices BASE-T, 1ch ripick) teed devices, at computer teed devices, at computer teed devices, at computer teed tee, teed devices, at computer teed tee, teed devices, at computer teed tee, teed devices, teed devices,	STR003400152005600 4000 40000 Connector single, Square, 42-pin Apclication: Communication with Application: Communication with tooR455-T1, 168455-T1 do Connector devices Data trained register: Application: Communication with connector devices connector devices unclino. Communication with connector devices application: Communication with application: Communication with application: Communication with application: Communication with application: Communication with application: Communication with application: Communication with application: Communication with application: Communication with application: Communication with application: application			
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software packages Simulation software	External dimensions (with Panel cut dimensio	Ethernet USB CF card Optional function board Extension unit? tion toxUSB prover) ns	Transmission speec Connector shape: 14-pin (fem Data transfer Conne Application: Conne galeway fur oS ins Conne (project c 1ch for 2ch for comm JEM1(2	RS-422/485, 1ch 11 152/0057600/34400119 int 11 152/0057600/34400119 int 11 152/0057600/34400119 int 11 11 11 11 11 11 11 11 11 11 11 11 11	200/9600/4800bps attion with connected devices BASE-T, 1ch ripick) teted devices, at computer teted devices, at computer teted devices, at computer teted by the tete tete tetes tet	STR003400152005600 40005 4000 40005 Connector single, Squale, 42-pin Apolitation: Communication with Apolitation: Communication with connector devices Data transfer system. Apolitation: Communication with connector devices apolitation: Communication with apolitation: apolitation			
	Buzzer output Protective construc Edemal dimension (wit Panel cut dimensio Weight (excl. mour Applicable	Ethernet USB CF card Optional function board Extension unit? tion val.VBB growpi rss First	Transmission speec Connector shape: 14-pin (fem Data transfer Conne Application: Conne galeway fur oS ins Conne (project c 1ch for 2ch for comm JEM1(2	RS-422/485.1ch 1: 1520027600/3840019 4: 11520027600/3840019 4: papication: Communi 4: papication: Communi 4: papication: Communi 4: papication: Comment 1: pagi 4: pa	200/9600/4800bps attion with connected devices BASE-T, 1ch rijck) ted devices, al computer d, d, cticn) 128/bgb1, bd5 1ch lexiton. Data transfer and sk cells the start connector shape: TVPE Ini- situalitation. FA transperent fi Connector shape: TVPE Ini- situalisation. FA transperent fi installation. I installation.	STR003400152005600 GONDARD Palyer, Square, 42-pin Apolitation: Communication with Apolitation: Communication with nomedid devices Data transfer system. T008455-TX, 108455-T, 10 Apolitation: Communication with connector devices, gateway devices, gateway devices, gateway devices, gateway andition. Commod Palyer, Stranger andition. Commod Palyer, Stranger andition. Commod Palyer, Stranger andition. Commod Palyer, Stranger and Stranger andition. Commod Palyer, Stranger andition. Commod Palyer and			

On LCD screens, bright dots (permanently lit) and black dots (not to be lit) generally appear. Because the large number of display elements exist on an LCD screen, it is not possible to reduce appearance of the bright and black dots to zero.

Note that the existence of bright and black dots is a standard characteristic of LCD screens, and it does not mean that the products are defective or

a deal and balancemess OLDS bisetile, and a damaged. Use production and defective or damaged. LC panels have characteristics of tone reversal. Note that even within the indicated we wagles, the screen display may not be clear enough depending on the display color. Manual display color and the screen display may not depending on the display color. An analog resistive touch display is used. When An analog resistive touch display is used. When a simulancously, if a winch is located the middle aimulancously, if a winch is located the middle aimulancously.

simultaneously. The memory is a ROM that permits overwriting of new data without having to delete the existing

new data without having to delete the existing data. With the USB environmentally protective cover is on, pressing firmly the portion market a⁺ △⁺ makes is conform to IP87 (LEM1030). (The USB interface conforms to IP87 (LEM1030) when a USB cable or a USB memory is connected.) However, this does not guarantee protection in a line intervironment. The time is environment where it is exposed to biglashing of or chemicals for a long time of the protection in a environment. Where more them one extension unit, bacode

Where more than one extension unit, barcode reader, and RFID controller are used, the sum of

Where more than one extension unit, baccode reader, and RFID controller are used, the sum of hoursent level which the CGT can supply. For the currents which the actension units, baccode reader, and RFID controller consume and the current level which the GGT can supply, see "3.2 Precautions for Use (Calculation and the current level which the GGT can supply, see "3.2 Precautions for Use (Calculation the function version A of GT1069GT1855 in not compatible with 10BASE-T. This does not guarantee protection in all users' environments. The specification is not applied protecher course removed. If necessary use a stylus pen meeting the following specifications. (secularing 1056H5) - Material: Polyacetal realm meeting the fall the latest version. The latest version package can be confirmed in the MELFANS website (the?) www.MtsubahElectric.co.jb/meflansweb).

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GT15

General specifications

Ite	m			Specifi	ication					
Operating ambient	Display			0°C to	50°C					
temperature"1	Other than display	0°C to 55°C								
Storage ambient	temperature	-20°C to 60°C								
Operating ambient humidity ^{*2}		10 to 90%RH, no condensation								
Storage ambient	humidity ^{*2}	10 to 90%RH, no condensation								
				Frequency	Acceleration	Half amplitude	Sweep count			
Vibration resistance*3		Conforming to	Under	5 to 9Hz	-	3.5mm	10 times			
			intermittent vibration	9 to 150Hz	9.8m/s ²	-	each in X, Y and Z directions			
		120 01131-2	Under continuous vibration	5 to 9Hz	-	1.75mm				
				9 to 150Hz	4.9m/s ²	-	-			
Impact resistance	e	Conforming to JI	IS B 3502 and IE	C 61131-2 (14	7m/s², 3 times i	n each of X, Y ar	nd Z directions)			
Operating atmos	sphere	Free from o	il mist, corrosive gase	s, flammable gases (The same applie		uctive dusts or direct s	un beams			
Operating altitud	le ^{*4}			2000m	or less					
Installation locat	ion			In contro	ol panel					
Overvoltage cate	egory ^{*5}			∐ or I	ower					
Contamination le	evel ^{*6}			2 or						
Cooling method				Self-o	poling					
Grounding		Туре	D grounding (10	000 or less). C	onnect to panel	if unable to grou	nd.			

- *1: The maximum operating ambient temperature should be 5°C lower than that shown in the table on the left when connecting to a MELSECNETH communication unit (GT5-1712-223 der GT15-1719-RT3), or CC-Link communication unit (GT5-4518-FT3).
 2: Water bub temperature for STA facility Jung and ST C or lower.
 2: Neter bub repensature for STA facility of several derivation resistance specifications when using the MELSECNETT/10 communication unit (GT15-75/71/129-32 or GT15-75/71/18R13-2) or CC-Link communication are different from these states been mainteplated environments where result in abnoming elevention.

- 5: Assuming that the device is connected at some point between a public power distribution network and local system equipment. Category 11 applies to devices that are supplied with power from fixed equipment. The surge withhand voltage is 2500/07 devices with artifarigu to 1300/ 75: Index that Indicates the level of foreign conductive matter in the operating environment of the device. Contamination level 2 devices contamination by non-conductive matter only, though momentary conductivity may occur due to occasional condensation.

Do not use or store the GOT under direct sun light or in an environment with excessively high temperature, dust, humidity or vibration.

Performance specifications

			Specification						
	Item	GT1595-XTBA GT1595-XTBD	GT1585V-STBA GT1585V-STBD GT1585-STBA GT1585-STBD	GT1575V-STBA GT1575V-STBD GT1575-STBA GT1575-STBD	GT1575-VTBA GT1575-VTBD	GT1575-VNBA GT1575-VNBD	GT1572-VNBA GT1572-VNBD	GT1565-VTBA GT1565-VTBD	GT1562-VNBA GT1562-VNBD
	Туре	TFT	color LCD (high-bright	ness, wide viewing an	gle)	TFT cc	lor LCD	TFT color LCD (high-brightness, wide viewing angle)	TFT color LCD
	Screen size	15"	12.1*		10	.4"		8	4*
	Resolution	XGA: 1024×768 [dots]	SVGA: 800	<600 [dots]			VGA: 640×480 [dot		
	Display size	304.1(W)×228.1(H) [mm]	246(W)×184.5(H) [mm]		211(W)×1	58(H) [mm]		171(W)×1	28(H) [mm]
	No. of displayed characters	16-dot standard font: 64 chars.×48 lines (2-byte) 12-dot standard font: 85 chars.×34 lines (2-byte)	12-dot star 66 chars.×50	x37 lines (2-byte) 16-dot standard font: 40 chars.x30 i standard font: 50 lines (2-byte) 20 lines (2-byte)				0 lines (2-byte)	
	Display colors		65536 (colors		256 colors	16 colors	65536 colors	16 colors
Display ^{*1}	View angle ^{*3}	Right/left: 75°, Up: 50°, Down: 60°	GT1585V Right/left: 60°, Up: 40°, Down: 50° GT1585 Right/left: 65°, Up: 45°, Down: 55°	Right/left/up/down: 85°	Right/left/up/down: 85°	Up:	eft: 45°, 30°, n: 20°	Right/left: 65°, Up: 50°, Down: 60°	Right/left: 45°, Up: 20°, Down: 20°
	Contrast adjustment			r	1	-			r
	Intensity	450 [cd/m ²]	GT1585V: 350 [cd/m ²] GT1585: 400 [cd/m ²]	400 [cd/m ²]	380 [cd/m ²]	-	cd/m ²]	380 [cd/m ²]	150 [cd/m ²]
	Intensity adjustment		8-step adj	ustment		4-step a	djustment	8-step adjustment	4-step adjustment
	Life	Approx. 52,000 hours (operating ambient temperature: 25°C)	Approx. 50 (operating ambient			(opera	Approx. 41,000 hou ting ambient temperat		
-			Cold-cathode fluoresce	nt tube (replaceable),	with backlight OFF de	tection function. Back	light off time and scre	en save time can be se	t.
Backlight	Life*4	Approx. 50,000) hours or more			Approx. 40,0	00 hours or more		
	Life *			(Time for display in	tensity reaches 50% a	at operating ambient t	emperature of 25°C)		
	Туре	Analog resistive type				Matrix resistive type			
	No. of touch keys	-	1900 keys/screen (3			1200 ke	eys/screen (30 lines×4	0 columns)	
Touch	Key size	Min. 2×2 [dots]	Min. 16×				Min. 16×16 [dots]		
panel ^{*9}	No. of simultaneous	(per key) Simultaneous touch	(per key) (16×8 only	on lowermost line)			(per key)		
	touch points	prohibited ¹⁵ (1 point only)				Max. 2 points			
	Life	p		1,000	,000 times or more (o	perating force 0.98N	or less)		
-	Detection distance	1	[m]				-		
Human	Detection range	Right/left/u	p/down: 70°				-		
Human	Detection delay time	0 to 4	[sec]				-		
sensor	Detection temperature	Temperature diffe more between human	rence to be 4°C or body and ambient air				-		
Memory ^{*6}	C drive		9MB built-in fl (for saving projec	ash memory t data and OS)		(for saving proj	flash memory ect data and OS)	9MB built-in flash memory (for saving project data and OS)	5MB built-in flash memory (for saving project data and OS)
	Life (No. of writings)					0 times			
						um battery (optional)			
Battery	Backed up data				ock data and maintena				
	LIIG				ox. 5 years (operating nsmission speed: 115				
	RS-232*8				Connector shape:	D-sub 9-pin (male)			
		Application:	Communication with co	innected devices, con			upload/download, OS	installation, FA transpa	rent function)
Built-in	USB					2Mbps), device 1ch be: TYPE Mini-B			
interface	036		Application: Co	nnection to personal			S installation, FA trans	narent function)	
	CF card						isfer, data storage, GC		
	Optional function board		2011/00			tion board installation			
	Extension unit ^{*8}			2ct	for communication ur		ation		
Buzzer outp						length adjustable)			
Protective of	construction					67f ⁷ In panel: IP2X			
External dir (without US	nensions B port cover)	397(W)×296(H)×61(D) [mm]	316(W)×242(H)×52(D) [mm]			H)×49(D) [mm]		241(W)×190(H)×52(D) [mm]
Panel cut d		383.5(W)×282.5(H) [mm]	302(W)×228(H) [mm]		289(W)×2	00(H) [mm]		227(W)×1	76(H) [mm]
Weight	ting brackets)	5.0 [kg]	2.8 [kg]	GT1575V: 2.3 [kg] GT1575: 2.4 [kg]	2.4 [kg]		[kg]		[kg]
Applicable software packages	Screen design software Simulation software		•		GT Works3	Version1 ^{*10}			
packages									

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Power supply specifications

					Specif	ication				
Item	GT1595-XTBA	GT1585V-STBA GT1585-STBA	GT1575V-STBA GT1575-STBA GT1575-VTBA GT1575-VNBA GT1572-VNBA GT1565-VTBA GT1562-VNBA	GT1595-XTBD	GT1585V-STBD GT1585-STBD	GT1575V-STBD GT1575-STBD GT1575-VTBD GT1575-VNBD GT1572-VNBD GT1565-VTBD GT1562-VNBD	GT1555-VTBD	GT1555-QTBD	GT1555-QSBD	GT1550-QLBD
Input power supply voltage	100 t	o 240VAC (+10%,	-15%)			2	4VDC (+25%, -20%	6)		
Input frequency		50/60Hz ±5%								
Input maximum apparent power	1	110VA (at max. load	i)				-			
Power consumption	56W or less	41W or less	39W or less	57W or less (2380mA/24VDC)	43W or less (1790mA/24VDC)	41W or less (1710mA/24VDC)	19W or less (790mA/24VDC)	18W or less (750mA/24VDC)	17W or less (710mA/24VDC)	15W or less (620mA/24VDC
With backlight off	30W or less	28W or less	28W or less	32W or less (1330mA/24VDC)	30W or less (1250mA/24VDC)	30W or less (1250mA/24VDC)	14W or less (580mA/24VDC)		13W or less (540mA/24VDC)	
Inrush current	50A or less (4ms, at max. load)	45A or less (4ms, at max. load)	40A or less (4ms, at max. load)	100A or less (4ms, at max. load)	115A or less (1ms, at max. load)	115A or less (1ms, at max. load)	67A or less (1ms, at max. load)		60A or less (1ms, at max. load))
Permissible instantaneous failure time	Withir	20ms (100VAC or	more)				Within 10ms			
Noise resistance		ige 1500Vp-p, nois tor with noise frequ					age 500Vp-p, noise tor with noise frequ			
Withstand voltage		500VAC for 1 minu wer supply termina			500'	VDC for 1 minute b	etween power supp	oly terminal and gro	bund	
Insulation resistance			10MΩ or highe	r with an insulation	resistance tester (500VDC between p	oower supply termin	nal and ground)		
Applicable wire size					0.75 to	2 [mm ²]				
Clamp terminal				Clamp terminals	for M3 screw RAV	1.25-3, V2-S3.3, V	2-N3A, FV2-N3A			
Tightening torque (terminal block's terminal screws)					0.5 to 0	.8 [N•m]				

Performance specifications

	ltem		Specifi	Specification							
	nem	GT1555-VTBD	GT1555-QTBD	GT1555-QSBD	GT1550-QLBD						
	Туре	TFT col (high-brightness, w		STN color LCD	STN monochrome (black/white) LCD						
	Screen size		5.								
	Resolution	VGA: 640×480 [dots]		QVGA: 320×240 [dots]							
	Display size		115(W)×8	6(H) [mm]							
Display	No. of displayed characters	16-dot standard font: 40 chars.×30 lines (2-byte) 12-dot standard font: 53 chars.×40 lines (2-byte)	ines (2-byte) ines (2-byte)								
'1 ' 2	Display colors	65536	colors	4096 colors	Monochrome 16 gray scale						
		Right/left: 80°,	Right/left: 70°,	Right/left: 55°,	Right/left: 45°,						
	View angle ^{*3}	Up: 80°,	Up: 70°,	Up: 65°,	Up: 20°,						
	-	Down: 70°	Down: 50°	Down: 70°	Down: 40°						
	Contrast adjustment	-		16-step a	adjustment						
	Intensity	350 [cd/m ²]	400 [cd/m ²]	380 [cd/m ²]	220 [cd/m ²]						
	Intensity adjustment	000 [00111]	8-step ad		reo (oomini)						
			Approx. 50								
	Life		(operating ambient								
		Cold-cathode fluor	operating ambient escent tube (not replacea		detection function						
			lacklight off time and scr								
Backlight			prox. 75,000 hours or mo		Approx. 58,000 hours or mor						
	Life ^{*4}		intensity reaches 50% a								
	Turno	(rime for display	Intensity reaches 50% a Matrix res		perature or 25 C)						
	Туре	1200 kevs/screen	watrix res	300 kevs/screen							
	No. of touch keys	(30 lines×40 columns)		(15 lines×20 columns)							
Touch panel ^{*9}	Key size	Min. 16×16 [dots] (per key)									
paner	No. of simultaneous										
	touch points	Max. 2 points									
	Life	1,000,000 times or more (operating force 0.98N or less)									
	Detection distance										
Human	Detection range										
sensor	Detection delay time										
	Detection temperature										
Memory*6	C drive		9MB built-in f (for saving proje								
	Life (No. of writings)	100.000 times									
		i	GT15-BAT type lithiu								
		GT15-BAT type lithium battery (optional) Clock data and maintenance time notification data									
Battery	Backed up data				3						
Battery	Backed up data Life		Clock data and maintena	nce time notification data							
Battery		Ap	Clock data and maintena prox. 5 years (operating a	nce time notification data ambient temperature: 25	°C)						
Battery	Life	Ap RS-232, 1ch, 1	Clock data and maintena prox. 5 years (operating a ransmission speed: 115 Connector shape:	nce time notification data ambient temperature: 25 200/57600/38400/19200 D-sub 9-pin (male)	°C) /9600/4800bps						
Battery		Ap RS-232, 1ch, 1 Application: Comm	Clock data and maintena prox. 5 years (operating a ransmission speed: 115 Connector shape: unication with connected	nce time notification data ambient temperature: 25 200/57600/38400/19200 D-sub 9-pin (male) d devices, connection to	°C) /9600/4800bps personal computer						
Battery	Life	Ap RS-232, 1ch, 1 Application: Comm (project dal	Clock data and maintena orox. 5 years (operating a ransmission speed: 115 Connector shape: unication with connecter a upload/download, OS i	nce time notification data ambient temperature: 25 200/57600/38400/19200 D-sub 9-pin (male) d devices, connection to installation, FA transpare	°C) /9600/4800bps personal computer ent function)						
	Life RS-232 ¹⁸	Ap RS-232, 1ch, 1 Application: Comm (project dal	Clock data and maintena prox. 5 years (operating a ransmission speed: 115 Connector shape: iunication with connected a upload/download, OS peed 12Mbps), device 1	nce time notification data ambient temperature: 25 200/57600/38400/19200 D-sub 9-pin (male) d devices, connection to installation, FA transpare ch, Connector shape: Th	°C) /9600/4800bps personal computer ent function)						
Built-in	Life	Ap RS-232, 1ch, 1 Application: Comm (project dal USB (full-s	Clock data and maintena arox. 5 years (operating a ransmission speed: 115: Connector shape: unication with connected a upload/download, OS i peed 12Mbps), device 1: Application: Connection	nce time notification dati ambient temperature: 25 200/57600/38400/19200 D-sub 9-pin (male) d devices, connection to installation, FA transpare ch, Connector shape: Th n to personal computer	°C) /9600/4800bps personal computer ent function) /PE Mini-B						
Built-in	Life RS-232 ^{'8} USB	Ap RS-232, 1ch, 1 Application: Comm (project dal USB (full-s (project dal	Clock data and maintena prox. 5 years (operating ransmission speed: 115: Connector shape: uunication with connecter a upload/download, OS i peed 12Mbps), device 1 Application: Connection a upload/download, OS i	nce time notification data ambient temperature: 25 200/57600/38400/19200 D-sub 9-pin (male) d devices, connection to installation, FA transpare ch, Connector shape: Th n to personal computer installation, FA transpare	°C) /9600/4800bps personal computer wnt function) /PE Mini-B ent function)						
Built-in	Life RS-232 ¹⁸	Ap RS-232, 1ch, 1 Application: Comm (project dal USB (full-c (project dal	Clock data and maintena prox. 5 years (operating transmission speed: 115 Connector shape: unication with connecte a upload/download, OS peed 12Mbps), device 1 Application: Connection a upload/download, OS iompact flash slot, 1ch, C	nce time notification data ambient temperature: 25 200/57600/38400/19200 D-sub 9-pin (male) d devices, connection to installation, FA transpare ch, Connector shape: Th n to personal computer installation, FA transpare connector shape: TYPE	°C) /9600/4800bps personal computer int function) /PE Mini-B int function) [
Built-in	Life RS-232 ^{°8} USB CF card	Ap RS-232, 1ch, 1 Application: Comm (project dal USB (full-c (project dal	Clock data and maintena prox. 5 years (operating a ransmission speed: 115 Connector shape: junication with connectes a upload/download, OS i peed 12Mbps), device 1 Application: Connection a upload/download, OS i compact flash slot, 1ch, C polication: Data transfer,	nce time notification data ambient temperature: 25 200/57600/38400/19200 D-sub 9-pin (male) d devices, connection to installation, FA transpare ch, Connector shape: The n to personal computer installation, FA transpare Connector shape: TYPE data storage, GOT start	°C) /9600/4800bps personal computer int function) /PE Mini-B int function) [
- Built-in	Life RS-232 ^{'8} USB CF card Optional function board	Ap RS-232, 1ch, 1 Application: Comm (project dal USB (full- (project dal (project dal	Clock data and maintena arrox. 5 years (operating g ransmission speed: 1155 Connector shape: unication with connected up load/download, OS peed 12Mbps), device 1 Application: Connection up load/download, OS formpact flash slot, 1ch, o poplication: Data transfer, 1ch for optional funct	nce time notification dat. ambient temperature: 25 200/57600/38400/19200 D-sub 9-pin (male) d devices, connection to sinstallation, FA transpare ch, Connector shape: Th n to personal computer matallation, FA transpare Zonnector shape: TYPE data storage, GOT start tion board installation	°C) 99600/4800bps personal computer nt function) (PE Mini-B int function) [ир						
Built-in nterface	Life RS-232 ^{°8} USB CF card Optional function board Extension unit ^{°8}	Ap RS-232, 1ch, 1 Application: Comm (project dal USB (full- (project dal (project dal	Clock data and maintena rox. 5 years (operating i ransmission speed. 115 Connector shape: unication with connected a upload/download, OS peed 12Mtps), device 1 Application: Connection a upload/download, OS compact flash sol. 1ch, c polication: Data transfer, 1ch for optional funct ch for communication un	nce time notification dati ambient temperature: 25 2005/7800/38400/19200 D-sub 0-pin (male) d devices, connection to installation, FA transpare ch, Connector shape: TyPE data storage, GOT start ion board installation in board installation	°C) 99600/4800bps personal computer nt function) (PE Mini-B int function) [ир						
Built-in interface Buzzer outp	Life RS-232 ^{°8} USB CF card Optional function board Extension unit ^{°8} Ut	Ap RS-232, 1ch, 1 Application: Comm (project dal USB (full- (project dal (project dal	Clock data and maintena zrox. 5 years (operating i transmission speed: 115 Connector shape: unication with connecter a upload/download, OS i peed 12Mbps), device 11 Application: Calar Connection a upload/download, OS i compact flash slot, 1ch, C opplaction: Data transfer, 1ch for optional funct ch for communication um Single tone (tone	nce time notification dati ambient temperature: 25 2005/7600/34800/19200 D-sub 9-pin (male) d devices, connection to installation, FA transpare ch, Connector shape: Th installation, FA transpare Jonnector shape: TYPE data storage, GOT start ion board installation it/optional unit installatio length adjustable)	°C) 99600/4800bps personal computer nt function) (PE Mini-B int function) [ир						
Built-in interface Buzzer outp Protective c	Life RS-232 ^{°8} USB CF card Optional function board Extension unit [®] put construction	Ap RS-232, 1ch, 1 Application: Comm (project dal USB (full- (project dal (project dal	Clock data and maintena rox. 5 years (operating i ransmission speed. 115 Connector shape: unication with connected a upload/download, OS peed 12Mtps), device 1 Application: Connection a upload/download, OS compact flash sol. 1ch, c polication: Data transfer, 1ch for optional funct ch for communication un	nce time notification dati ambient temperature: 25 2005/7600/34800/19200 D-sub 9-pin (male) d devices, connection to installation, FA transpare ch, Connector shape: Th installation, FA transpare Jonnector shape: TYPE data storage, GOT start ion board installation it/optional unit installatio length adjustable)	°C) 99600/4800bps personal computer nt function) (PE Mini-B int function) [ир						
Built-in interface Buzzer outp Protective c External din	Life RS-232 ¹⁸ USB CF card Optional function board Extension unit ¹⁸ out construction mensions	Ap RS-232, 1ch, 1 Application: Comm (project dal USB (full- (project dal (project dal	Clock data and maintena crox. Syears (operating or transmission speed: 115 Connector shape: unication with connected a upload/download, OS peed 12Mbps), device 1 Application: Data Connection upload/download, OS compact flash slot, 1ch, o polication: Data transfer, 1ch for optional funct ch for communication um Single tone (tone JEM1030 Front: IPe	nce time notification dati ambient temperature: 25 2005/7600/348400/19200 D-sub 6-pin (male) d devices, connector on snstallation, FA transpare ch, connector shape: Ty-Te ch, connector shape: Ty-Te data storage, GOT start ion board installation, FA transpare 20nned out installation data storage, GOT start ion board installation ait/optional unit installatio length adjustable) 57f ⁷ In panel: IP2X	°C) 99600/4800bps personal computer nt function) (PE Mini-B int function) [ир						
Built-in Interface Buzzer outp Protective o External diruk	Life RS-232 ¹⁸ USB CF card Optional function board Extension unit ¹⁸ put put software B port cover)	Ap RS-232, 1ch, 1 Application: Comm (project dal USB (full- (project dal (project dal	Clock data and maintena arxo. 5. years (operating ; rasmission speed: 115: Concentor shape: unication with connector a upload/download, O.S. Application: connection upload/download, O.S. compact flash ed. 1c1, O. pplication: connection connectional funct for for optional funct of hor optional funct of hor optional funct of Single tone (tone: JEM1030 Front: IPI 167(W): 135(f	nce time notification dati ambient temperature: 25 0007560034840019200 D-sub 9-pin (male) devices, connection to installation, FA transpare divides, connection shape: The to personal computer installation, FA transpare installation, FA transpare installation, FA transpare diata storage, GOT stati- diata storage, GOT stati- diata storage, GOT stati- diata storage, GOT stati- norbard installation in borard installation in borard installation integrit adjustable) 577 ⁷ In panel: IP2X 4)x60(D) [mm]	°C) 99600/4800bps personal computer nt function) (PE Mini-B int function) [ир						
Built-in Interface Buzzer outp Protective c External din (without US Panel cut di	Life RS-232 ¹⁸ USB CF card Optional function board Extension unit ¹⁸ put put software B port cover)	Ap RS-232, 1ch, 1 Application: Comm (project dal USB (full- (project dal (project dal	Clock data and maintena crox. Syears (operating or transmission speed: 115 Connector shape: unication with connected a upload/download, OS peed 12Mbps), device 1 Application: Data Connection upload/download, OS compact flash slot, 1ch, o polication: Data transfer, 1ch for optional funct ch for communication um Single tone (tone JEM1030 Front: IPe	nce time notification dati ambient temperature: 25 0007560034840019200 D-sub 9-pin (male) devices, connection to installation, FA transpare divides, connection shape: The to personal computer installation, FA transpare installation, FA transpare installation, FA transpare diata storage, GOT stati- diata storage, GOT stati- diata storage, GOT stati- diata storage, GOT stati- negrh adjustable 000000000000000000000000000000000000	°C) 99600/4800bps personal computer nt function) (PE Mini-B int function) [ир						
Built-in interface Buzzer outp Protective c External din (without US Panel cut di Weight	Life RS-232 ¹⁸ USB CF card Optional function board Extension unit [®] Sut construction mensions Bit port over) imensions	Ap RS-232, 1ch, 1 Application: Comm (project dal USB (full- (project dal (project dal	Clock data and maintena prox. 5 years (operating rammission peed: 115: Commerch singer: Lapland (owned), 50 yeard (124/ps), dovice) I a upland (owned), CS yeard (124/ps), dovice) I a upland (owned), CS yeard (124/ps), dovice) I to file orgitonal funct in for communication un Single tone (tone: JEM1030 Front: IPI 187(V)+135(155)(V)+125(nce time notification data ambient temperature: 29 005/76/00/38400/18200 09-aub 9-pin (mate)) to an end of the second of the second installation, FA transpare content of the second of the second installation, FA transpare Content of the second of the second installation, FA transpare Content of the second of the second installation of the second of the the second of the second installation of the	°C) 99600/4800bps personal computer nt function) (PE Mini-B int function) [ир						
Built-in Interface Buzzer outp Protective of External din (without US Panel cut di Weight (excl. mount)	Life Life RS-232 ¹⁸ US8 CF card CF card Cptonal function board Extension unt ¹⁸ xonstruction mensions B port covery) mensions ting brackets)	Ap RS-232, 1ch, 1 Application: Comm (project dal USB (full- (project dal (project dal	Clock data and maintena arxo. 5. years (operating ; rasmission speed: 115: Concentor shape: unication with connector a upload/download, O.S. Application: connection upload/download, O.S. compact flash ed. 1c1, O. pplication: connection connectional funct for for optional funct of hor optional funct of hor optional funct of Single tone (tone: JEM1030 Front: IPI 167(W): 135(f	nce time notification data ambient temperature: 29 005/76/00/38400/18200 09-aub 9-pin (mate)) to an end of the second of the second installation, FA transpare content of the second of the second installation, FA transpare Content of the second of the second installation, FA transpare Content of the second of the second installation of the second of the the second of the second installation of the	°C) 99600/4800bps personal computer nt function) (PE Mini-B int function) [ир						
Panel cut di Weight	Life RS-232 ¹⁸ USB CF card Optional function board Extension unit [®] Sut construction mensions Bit port over) imensions	Ap RS-232, 1ch, 1 Application: Comm (project dal USB (full- (project dal (project dal	Clock data and maintena prox. 5 years (operating rammission peed: 115: Commerch singer: Lapland (owned), 50 yeard (124/ps), dovice) I a upland (owned), CS yeard (124/ps), dovice) I a upland (owned), CS yeard (124/ps), dovice) I to file orgitonal funct in for communication un Single tone (tone: JEM1030 Front: IPI 187(V)+135(155)(V)+125(nce time notification data ambient temperature :25 2003/F00/364001/2802 10 devices, connection to the personal computer in the personal computer interpersonal interperson interpersonal interpersonal interpersonal interpersonal interpersonal interpersonal interpersonal interpersonal interpersonal interpersonal interpersonal interpersonal interpersonal interpersonal interpersonal int	°C) 99600/4800bps personal computer nt function) (PE Mini-B int function) [ир						

- Ch LCD screens, bright dots (permanently lif) and black dots (not to be lif) generally appear. Because the large number of display elements easi or an LCD screen, it is not possible to induce the large outperformance of the large number of display elements easi or an UCD screen, and the display colors. Note that the existence of bright and black dots is a standard characteristic (LC) screens, and it does not mean that the products are detective or disright and black dots is a standard characteristic (LC) screens, and loss on theman that the indicated view angles, the screen display may not be clear encough depending on the display colors.
 LC panels made stands the screen display may not be clear encough depending on the display color.
 Using the COT screen savebacklight IOFF functions prevents screen Num-hard extends the backlight life.
 The memory as ROM that permits orwarding of new data without toorhoms to Profile LCM screens insurtaneously.
 The memory as ROM that permits orwarding of new data without conforms to PRV (LEM1030). (New USB screen is not here may have black and the screen is not large to the screen is not loss on the main user' environment subs class is acaked with all of onlimits.
 When more than one extension protection in all user' environments.
 When more than one extension unit, barcode reader, and RFD.
- of mint. * Where more than one extension unit, barcode reader, and RFID controller are used, the sum of their current comumptions should be the sum of their current comumptions should be For the current which the deviation units, barcoder adder, and RFID controller consume and the current level which the GOT can supply, see 3.2 Precations for Use (Calculation of urrent consumed by units GOT 1615-); * If recessary, use a shylus pain meeting the following specifications. * Point to pradius: 0.8 mm or more * Obuse the software package can be confirmed in the MELFANSweb website (thry/www.Msubele/Edevice.co.g)mediareney.

1

GOT 2

SOFTWARE

3

FUNCTION

4

CONNECTION CONFIGURATION

5

COMPLIANCE WITH OVERSEAS STANDARDS

GT11

General specifications

lte	m			Specific	ation					
Operating ambient	Display			0°C to 5	0°C*5					
temperature	Other than display	0°C to 55°C (horizontal installation), 0°C to 50°C (vertical installation)*5								
Storage ambient ten	nperature	-20°C to 60°C								
Operating ambient h	Operating ambient humidity ^{*1}		10 to 90%RH, no condensation							
Storage ambient hur	midity*1	10 to 90%RH, no condensation								
				Frequency	Acceleration	Half amplitude	Sweep count			
				5 to 9Hz	-	3.5mm	10 times each			
Vibration resistance		Conforming to JIS B 3502 and IEC 61131-2	Under intermittent vibration	9 to 150Hz	9.8m/s ²	-	in X, Y and Z directions			
			Under continuous	5 to 9Hz	-	1.75mm				
			vibration	9 to 150Hz	4.9m/s ²	-	-			
Impact resistance		Conforming to JIS B 3502 and IEC 61131-2 (147m/s ² , 3 times in each of X, Y and Z directions)								
Operating atmosphe	re	Free from oil mi	st, corrosive gases, fi beams (es and excessiv lies to unit stora		ats or direct sun			
Operating altitude ^{*2}				2000m o	r less					
Installation location				In control	panel*6					
Overvoltage categor	y*3			∏ or lo	wer					
Contamination level	4			2 or le	ISS					
Cooling method				Self-cor	oling					
Grounding		Ty	pe D grounding (100	or less). Co	nnect to panel it	f unable to groun	d.			

*1: Water bulb temperature for STN display type must be 39°C or

- Water bure temperature to our of the contract of

- atmospheric pressure, as this could result in abnormal operation. Do not pressurize inside the control panel for air purge cleaning. The pressure could raise the surface sheet, making the touch panel difficult to operate or causing the sheet to come off. Use the surface of the surface sheet is a strain to the surface public gover distribution retevort and local system equipment. Category II applies to devices that are supplied with power from fixed equipment. The surge whithand voltage is 2500V for devices with ratings up to 300V. K I ndex that indicates the level of foreign conductive matter only, though condensation. S to 40 × 07 for GT115°THS
- *5: 0 to 40°C for GT115_HS
- *6: Excluding GT115 HS

Performance specifications

	Item			Specification							
	litem	GT1155-QTBD	GT1155-QSBD	GT1150-QLBD	GT1155HS-QSBD	GT1150HS-QLBD					
	Туре	TFT color LCD	STN color LCD	STN monochrome (black/white) LCD	STN color LCD	STN monochrome (black/white) LCD					
	Screen size			5.7"							
	Resolution			QVGA: 320×240 [dots]	i						
	Display size	115	(W)×86(H) [mm] (in horizontal display r	node)	115(W)×	86(H) [mm]					
	No. of displayed characters	16-dot :	standard font: 20 chars.×15 lines (2-by	e) 12-dot standard font: 26 chars.×	20 lines (2-byte) (in horizontal disp	lay mode)					
	Display colors	25	6 colors	Monochrome (black/white) 16 gray scale	256 colors	Monochrome (black/white) 16 gray scale					
Display ^{*1}	View angle	Right/left: 70°, Up: 70°, Down: 50° (in horizontal display mode)	Right/left: 50°, Up: 50°, Down: 60° (Hardware versions A and B) (In horizontal display mode) Right/left: 55°, Up: 65°, Down: 70° (Hardware version C or later) (In horizontal display mode)	Right/left: 45°, Up: 20°, Down: 40° (in horizontal display mode)	Right/left: 50°, Up: 50°, Down: 60° (Hardware versions A and B) • Right/left: 55°, Up: 65°, Down: 70° (Hardware version C or later)	Right/left: 45°, Up: 20°, Down: 40°					
	Contrast adjustment	-		16-step ac	ljustment						
	Intensity	400 [cd/m ²]	350 [cd/m ²] (Hardware versions A and B) 380 [cd/m ²] (Hardware version C or later)	220 [cd/m ²]	350 [cd/m ²] (Hardware versions A and B) 380 [cd/m ²] (Hardware version C or later)	220 [cd/m ²]					
	Intensity adjustment										
	Life	Approx. 50,000 hours (operating ambient temperature: 25°C) Cold-cathode fluorescent tube (not replaceable), with backlight OFF detection function. Backlight off time and screen save time can be set.									
Backlight	Life ^{*2}	Approx. 75,0	000 hours or more	Approx. 54,000 hours or more	Approx. 75,000 hours or more	Approx. 54,000 hours or more					
			t temperature of 25°C)								
	Туре		0001	Matrix resistive type							
Touch	No. of touch keys Key size	300 keys/screen (matrix consisting of 15 lines×20 columns) Min. 16×16 (dots) (per key)									
panel	No. of simultaneous										
	touch points			Max. 2 points							
	Life	1,000,000 times or more (operating force 0.98N or less)									
	C drive ^{*3}		3MB built-in	lash memory (for saving project da	ta and OS)						
Memory	Life (No. of writings)	100,000 times									
	D drive	512KB built-in SRAM (battery backup)									
				GT11-50BAT type lithium battery							
Battery	Backed up data			ck data, alarm history and recipe da							
	Life		Replacement guideline	approx. 5 years (operating ambier	t temperature: 25°C)						
	Bus			-							
	RS-422/485	Applic	RS-422, 1ch, n speed: 115200/57600/38400/19200// Connector shape: D-sub 9-pin (female ation: Communication with connected PEN/110Ω/330Ω (switching by terminal	-							
Built-in interface	RS-422/232		-	Transmission /57600/38400/19 Connector shape: Ro Application: Communicat	elect one when using.) speed: 115200 200/9600/4800bps, und type, 32-pin (male) ion with connected devices						
Intenace	RS-232	Applic	RS-232, 1ch, n speed: 115200/57600/38400/19200/5 Connector shape: D-sub 9-pin (male) ation: Communication with connected connection to personal computer ad/download, OS installation, FA transp	devices,	57600/38400/19 Connector shape: N Application: Connectii (project data u	nission speed: 115200/ 200/9600/4800bps, lini-DIN 6-pin (female) on to personal computer pload/download, ansparent function, etc.)					
	USB	App	U: Dication: Connection to personal comp	SB (full-speed 12Mbps), device 1ch iter (project data upload/download,		action)					
	CF card		Compact flash slot, 1ch, Conne	ector shape: TYPE [Application: D	ata transfer and data storage						
	Optional function board			Embedded in main unit							
Buzzer out	put		s	ingle tone (tone length adjustable)							
	construction ^{*4}		JEM1030 Front: IP67f In panel: IP2X		JEM1030 IP65f (when exte	rnal connecting cable is fitted)					
External di (without US	mensions SB port cover)		164(W)×135(H)×56(D) [mm]		176(W)×220	H)×93(D) [mm]					
Panel cut o	limensions		153(W)×121(H) [mm]			-					
Weight			0.7 [kg] (excl. mounting brackets)		1.0 [kg] (m	ain unit only)					
Applicable software	Screen design software Simulation software			GT Works3 Version1 ^{*6}							
packages	Sinulation soltwafe	n sonware									

Power supply specifications

			Specification						
Item	GT1155-QTBD GT1150-QLBD GT1155-QTBDQ GT1155-QSBDQ GT1156-QSBDQ GT1155-QSBD GT1150-QLBD GT1155-QTBDA GT1155-QSBDA GT1150-QL GT1155-QSBD GT1150-QLBD GT1155-QTBDA GT1155-QSBDA GT1150-QL								
Input power supply voltage		24VDC (+10%, -15%), ripple voltage of 200mV or less							
Input frequency			-						
Input maximum apparent power			-						
Power consumption	9.84W or less (410mA/24VDC)	9.36W or less (390mA/24VDC)	11.16W or less (465mA/24VDC)	9.72W or less (405mA/24VDC)	7.92W or less (330mA/24VDC)				
With backlight off	4.32W or less (180mA/24VDC)	5.04W or less (210mA/24VDC)						
Inrush current	15A or less (2m	is, at max. load)	26A or less (4ms, at max. load)						
Permissible instantaneous failure time	Within	n 5ms	Within 10ms						
Noise resistance		/p-p, noise width 1µs ise frequency 30 to 100Hz	Noise voltage 500Vp-p, noise width 1µs by noise simulator with noise frequency 25 to 60Hz						
Withstand voltage		500VAC for 1 r	minute between power supply termine	nal and ground					
Insulation resistance	1	$10M\Omega$ or higher with an insulation r	esistance tester (500VDC between	power supply terminal and ground)				
Applicable wire size	0.75 to 2 [mm ²] ¹								
Clamp terminal		Clamp termina	als for M3 screw RAV1.25-3, V2-N3	A, FV2-N3A ^{*1}					
Tightening torque (terminal block's terminal screws)									

*1: Excluding GT115 HS

Performance specifications

		Specification							
	Item	GT1155-QTBDQ GT1155-QTBDA	GT1155-QSBDQ GT1155-QSBDA	GT1150-QLBDQ GT1150-QLBDA					
	Туре	TFT color LCD	STN color LCD	STN monochrome (black/ white) LCD					
	Screen size		5.7"	•					
	Resolution		QVGA: 320×240 [dots]						
	Display size		×86(H) [mm] (in horizontal displa						
	No. of displayed characters	16-dot standard font: 20 chars.×15 lines (2-byte) 12-dot standard font: 26 chars.×20 lines (2-byte) (in horizontal display mode)							
Display*1	Display colors	256 (Monochrome (black/white) 16 gray scale						
	View angle	Right/left: 70°, Up: 70°, Down: 50° (in horizontal display mode)	Right/left: 45°, Up: 20°, Down: 40° (in horizontal display mode)						
	Contrast adjustment	-	16-step a	idjustment					
	Intensity	400 [cd/m ²]	380 [cd/m ²]	220 [cd/m ²]					
	Intensity adjustment		8-step adjustment						
	Life	Approx. 50,000 hours (operating ambient temperature: 25°C)							
			ube (not replaceable), with back t off time and screen save time of						
Backlight	Life ^{*2}	Approx. 75,000) hours or more	Approx. 54,000 hours or more					
	Lite -	(Time for display intensit	y reaches 50% at operating amb	ient temperature of 25°C)					
	Туре		Matrix resistive type						
	No. of touch keys	300 keys/scr	×20 columns)						
Touch	Key size								
panel	No. of simultaneous touch points		Max. 2 points						
	Life	1,000,000 times or more (operating force 0.98N or less)							
	C drive ^{*3}	3MB built-in flash memory (for saving project data and OS)							
Memory	Life (No. of writings)	100,000 times							
	D drive	512KB built-in SRAM (battery backup)							
		GT11-50BAT type lithium battery							
Battery	Backed up data	Clock data, alarm history and recipe data							
	Life	Replacement guideline approx. 5 years (operating ambient temperature: 25°C)							
	Bus	1ch for QCPU (Q mode)/motion controller CPU (Q series) or 1ch for QnA/ACPU/motion controller CPU (A series) Application: For bus connection of PLC							
	RS-422/485	-							
	RS-422/232	-							
Built-in interface	RS-232	RS-232, 1ch, Transmission spect: 115200/57600/38400/19200/9600/4800bps, Connector shape: D-sub 9 pin (male) Application: Connection to barcode reader/personal computer (project data upoded/dvm/dda/ QS installation,							
	USB		FA transparent function, etc.) SB (full-speed 12Mbps), device rsonal computer (project data up FA transparent function)						
	CF card		flash slot, 1ch, Connector shap ication: Data transfer and data s						
	Optional function board	Аррі	Embedded in main unit						
Buzzer output		Embedded in main unit Single tone (tone length adjustable)							
	construction ^{*4}	Single tone (tone length adjustable) JEM1030 Front: IP67f In panel: IP2X							
External dir			167(W)×135(H)×65(D) [mm]						
Panel cut d			153(W)×121(H) [mm]						
Weight			0.9 [kg] (excl. mounting brackets	a)					
Applicable	Screen design software								
software packages	Simulation software		GT Works3 Version1 ^{*6}						

1: On LCD screens, bright dots (permanently lit) and black dots (not to be lit) generally appear. Because the large number of display elements exist on an LCD screen, it is not possible to reduce appearance of the bright and black dots to zero.
 Note that the existence of bright and black dots is a standard characteristic of LCD screens, and does not mean that the products are defective or damaged.
 Displaying one single screen for a long time can lead to burn-in, causing afterimages or image irregularities that could not disappear.
 Using the for Screen as who haddlight OFFr close that the products much and black does the screen screen brack of the screen screen burn-in and extends the backlight life.
 2: The memory or guarantee protection in all user' environments. The specification is not appled when the interface protective cover and rear transfer switch on the GOT main for concention, set the terminal resistance transfer switch on the GOT main into according to the connection cordinguito.
 4: In the cessen of GOT much forgo concention, set the terminal resistance transfer switch on the GOT main into according to the connection cordinguito.
 4: The the screen is protection in a later version.
 5: In the care of GOT much forgo concention, set the terminal resistance transfer switch on the GOT main unit according to the connection cordinguito.
 6: Use the software package of the latest version.

2

1

GT10

General specifications

lte	em	Specification										
Operating ambient	Display	0°C to 50°C										
temperature	Other than display	0°C	0°C to 55°C (horizontal installation), 0°C to 50°C (vertical installation)									
Storage ambient te	nperature	-20°C to 60°C										
Operating ambient	humidity ^{*1}			10 to 90%RH, r	o condensation	1						
Storage ambient hu	midity ^{*1}		10 to 90%RH, no condensation									
				Frequency	Acceleration	Half amplitude	Sweep count					
			Under	5 to 9Hz	-	3.5mm	10 times					
Vibration resistance		Conforming to JIS B 3502 and IEC 61131-2	intermittent vibration	9 to 150Hz	9.8m/s ²	-	each in X, Y and Z directions					
		120 01101 2	Under	5 to 9Hz	-	1.75mm						
			continuous vibration	9 to 150Hz	4.9m/s ²	-	-					
Impact resistance		Conforming to JIS B 3502 and IEC 61131-2 (147m/s ² , 3 times in each of X, Y and Z directions)										
Operating atmosph	ere	Free from oil mist, corrosive gases, flammable gases and excessive conductive dusts or direct sun beams (The same applies to unit storage.)										
Operating altitude ^{*2}		2000m or less										
Installation location		In control panel										
Overvoltage catego	ry*3	I or lower										
Contamination leve	1'4			2 or	less							
Cooling method				Self-c	ooling							
Grounding		Type I	D grounding (1	00Ω or less). Co	onnect to panel	if unable to grou	nd. ^{*5}					

- *1: Water built temperature for STN display type must be 39°C or lower.
 *2: Do not operate or store the GOT unit in pressurized environments where the pressure exceeds 0m edivation atmospheric pressure, as this could result in abnormal operation.
 Do not pressure inside the courting part of an purge cleaning. The pressure could raise the surface sheet, making the touch part difficult to operate or causing the sheet to come off.
 3: public power distribution network and local system equipment.
- public power distribution network and local system equipment. Category [] applies to devices that are supplied with power from fixed equipment. The surge withstand voltage is 2500V for devices with raings up to 300V. *1: Index that indicates the level of foreign conductive matter in the operating environment of the device. Contamination level 2 denotes contamination by non-conductive matter only. though momentary
- conductivity may occur due to occasional condensation. *5: The 5VDC type requires no grounding.

Performance specifications<GT105_, GT104_>

Item			Specif	cation							
	nem	GT1055-QSBD	GT1050-QBBD	GT1045-QSBD	GT1040-QBBD						
	Туре	STN color LCD	STN monochrome (blue/white) LCD	STN color LCD	STN monochrome (blue/white) LCD						
	Screen size	5	5.7"		4.7"						
	Resolution		QVGA: 320	×240 [dots]							
	Display size	115(W)×86(H) [mm] (ir	horizontal display mode)		n horizontal display mode)						
	No. of displayed characters		16-dot standard font: 20 12-dot standard font: 26 chars.×20 line								
Display ^{*1}	Display colors	256 colors	Monochrome (blue/white) 16 gray scale	256 colors	Monochrome (blue/white) 16 gray scal						
	View angle	Rightleft: 55°, Up: 65°, Down: 70° (in horizontal display mode)	Rightleft: 45°, Up: 20°, Down: 40° (in horizontal display mode)	Rightleft: 50°, Up: 40°, Down: 70° (in horizontal display mode)	Rightleft: 45°, Up: 20°, Down: 40° (in horizontal display mode)						
	Contrast adjustment		16-step a	djustment							
	Intensity	380 [cd/m ²]	260 [cd/m ²]	150 [cd/m ²]	300 [cd/m ²]						
	Life	Approx. 50,00	0 hours (Time for display contrast read	hes 20% at operating ambient temp	perature of 25°C)						
			eable) with backlight OFF detection function. creen save time can be set.		replaceable) creen save time can be set.						
Backlight		Approx. 75,000 hours or more	Approx. 54,000 hours or more	-							
	Life ^{*2}		aches 50% at operating ambient ure of 25°C)		-						
	Туре		Matrix res	stive type							
	No. of touch keys	Max. 50 keys/screen									
Touch panel	Key size	Min. 16×16 [dots] (per key)									
	No. of simultaneous touch points	Max. 2 points									
	Life	1,000,000 times or more (operating force 0.98N or less)									
Memory	User memory*3	Built-in flash memory for saving project data (3 MB or less) and OS									
nemory	Life (No. of writings)	100,000 times									
	I	GT11-50BAT type lithium battery									
Battery	Backed up data	Clock data, alarm history and recipe data									
	Life	Replacement guideline approx. 5 years (operating ambient temperature: 25°C)									
	RS-422/485	RS-422485, tch Transmission speed: 115200/576000440004900046004800bps Connector share: D-sub 0-pin (remaie) Application: Communication with PLCs Terminal resistance ⁵ . OPEN110():3302, (with/oreb y terminal resistance transfer switch)									
Built-in interface	RS-232	reminant resistance : OPEN (10),150() (smitched of priminant resistance analyses smitch) RS-222, 50() (smitched of priminant resistance analyses smitch) Transmission sevect : (smitched of priminant resistance analyses smitched of priminant resistance analyses smitched of priminant resistance analyses and resistance analyses analyses and resistance analyses analyses and resistance analyses and resistance analyses analyses analyses analyses and resistance analyses									
	USB	USB (full-speed 12Mbps), device 1ch Connector shape: TYPE (mink 9 (receptacie) Application: Communication with personal computer (project data uploaddownieda, OS installation, transparent function)									
				pard (GT10-50FMB) 1ch							
Buzzer ou			Single tone (tone len								
Protective	construction ^{*4}		Conforming to IP67f (J								
	imensions		(H)×56 (D)[mm]	(Horizo	 I) (Excluding mounting fixtures) ntal format) 						
	dimensions		121(H)[mm])(H)[mm] (Horizontal format)						
Weight		0.7kg (excl. m	ounting brackets)		nounting brackets)						
Applicable	e software package		GT Works3	Version1 ^{*6}							

Applicable software package
Applicable
Applicab

Power supply specifications<GT10>

				5	pecification					
Item	GT1055-QSBD	GT1050-QBBD	GT1045-QSBD GT1040-QBBD	GT1030-LBD GT1030-LWD GT1030-LBD2 GT1030-LWD2	GT1030-LBDW GT1030-LWDW GT1030-LBDW2 GT1030-LWDW2	GT1020-LBD GT1020-LWD GT1020-LBD2 GT1020-LWD2	GT1020-LBDW GT1020-LWDW GT1020-LBDW2 GT1020-LWDW2	GT1030-LBL GT1030-LWL GT1030-LBLW GT1030-LBLW	GT1020-LBL GT1020-LWL GT1020-LBLW GT1020-LBLW	
Input power supply voltage			24VDC (+10%, -15%), ripple voltage of	5VDC (±5%), supplied from PLC communication cable					
Input frequency					-					
Input maximum apparent power	apparent _									
Power consumption	9.84W or less 9.36W or less (410mA/24VDC) (390mA/24VDC)		3.6W or less (150mA/24VDC)	2.2W or less	(90mA/24VDC)	1.9W or less	(80mA/24VDC)	1.1W or less (220mA/5VDC)		
With backlight off	4.32W or less (180mA/24VDC)		2.9W or less (120mA/24VDC)	1.7W or less (70mA/24VDC)		1.2W or less (50mA/24VDC)		0.6W or less (120mA/5VDC)		
Inrush current		15A or less (26.4V) 2m	s 18A or less (26.4DCV) 1ms 13A or less (26.4DCV) 1ms				26.4DCV) 1ms	-		
Permissible instantaneous failure time				Within 5ms	-					
Noise resistance					s by noise simulator	with noise frequenc	y 30 to 100Hz			
Withstand voltage		500	VAC for 1 minute betw	veen power supply	erminal and ground				-	
Insulation resistance	1	0MQ or higher with an	insulation resistance t	ester (500VDC bety	veen power supply te	rminal and ground)			-	
Applicable wire size	0.75 to	2 [mm ²]	Single-wire installation: 0.14 to 1.5mm ² , AWG26 to AWG16 (single wire), 0.14 to 1.0mm ² , AWG26 to AWG16 (stranded wire), 0.25 to 0.5mm ² , AWG24 to AWG20 (bar terminal with insulation sleeve)							
			Two-wire installation: 0.14 to 0.5mm ² , AWG26 to AWG20 (single wire), 0.14 to 0.2mm ² , AWG26 to AWG24 (stranded wire)							
Clamp terminal	Clamp terminals for I V2-N3A,	M3 screw RAV1.25-3, FV2-N3A		A	12.5-6BU, AI0.34-6TC), AI0.5-6WH (made	by Phoenix Contact	:)		
Tightening torque (terminal block's terminal screws)	0.5 to 0	.8 [N•m]				0.22 to 0.25 [N•m]				

Performance specifications<GT1030, GT1020>

					Speci	fication				
	Item	GT1030-LBD GT1030-LWD GT1030-LBL GT1030-LWL	GT1030-LBDW GT1030-LWDW GT1030-LBLW GT1030-LWLW	GT1030-LBD2 GT1030-LWD2	GT1030-LBDW2 GT1030-LWDW2	GT1020-LBD GT1020-LWD GT1020-LBL GT1020-LWL	GT1020-LBDW GT1020-LWDW GT1020-LBLW GT1020-LWLW	GT1020-LBD2 GT1020-LWD2	GT1020-LBDW2 GT1020-LWDW2	
	Туре				STN monochrome	e (black/white) LCD				
	Screen size		4.			3.7"				
	Resolution		288×96 [dots] (in				160×64 [dots] (in			
	Display size		109.42(W)×35.98(H)[m	m] (in horizontal mode)		86.4(W)×34.5(H)[mm]] (in horizontal mode)		
	No. of displayed		ont: 36 chars.×6 lines (1-byte)				6-dot standard font: 20 d		Dr	
	characters	12-dot standard fo	ont: 48 chars.×8 lines (1-byte)	or 24 chars.×8 lines (2-byte) (i			10 chars.×4 lines (2-byt	te) (in horizontal mode)		
Display ^{*1}	Display colors					e (black/white)				
	View angle			Right/le		: 30°(in horizontal display mode)				
	Contrast adjustment				16-step a	adjustment				
	Intensity	200 [cd/m ²] (in green)	300 [cd/m ²] (in white)	200 [cd/m ²] (in green)	300 [cd/m ²] (in white)	200 [cd/m ²] (in green)	300 [cd/m ²] (in white)	200 [cd/m ²] (in green)	300 [cd/m ²] (in white	
	Intensity adjustment		8-step a	djustment			-			
	Life		Appro	x. 50,000 hours (Time	for display contrast rea	ches 20% at operating a	ambient temperature of	25°C)		
		3-color LED	3-color LED	3-color LED	3-color LED	3-color LED	3-color LED	3-color LED	3-color LED	
Backlight	Color	(green, orange and red)	(white, pink and red)	(green, orange and red)	(white, pink and red)	(green, orange and red)	(white, pink and red)	(green, orange and red)	(white, pink and red)	
backlight		(replacement not needed)	(replacement not needed)	(replacement not needed)	(replacement not needed)	(replacement not needed)	(replacement not needed)	(replacement not needed)	(replacement not neede	
	Function	Status contro			n save time setting can	be set. PLC can contro			n information.	
	Туре		Matrix res	istive type			Analog res	istive type		
	No. of touch keys				Max. 50 k	keys/screen				
Fouch banel	Key size		Min. 16×16 [d	iots] (per key)			Min. 2×2 [do			
	No. of simultaneous touch points		Max. 2				Impos h near the center of the		ch may function.)	
	Life			1,00	0,000 times or more (o	perating force 0.98N or				
/lemory	User memory ^{*2}	Built-in flash memory for saving project data (1.5MB or less) and OS Built-in flash memory for saving project data (512KB or less), OS, alarm history and i data							Irm history and recip	
	Life (No. of writings)				100,00	00 times				
				e lithium battery			-			
Battery	Backed up data		Clock data, alarm hi	story and recipe data						
	Life		uideline approx. 5 years	(operating ambient ter	nperature: 25°C)		-			
	For communication with PLC	RS-422 Transmission speed: 11520 480 Connector shape: Conne Application: Comn Terminal resistance ¹²	ID, GT1030-LBDWILWDW V485, 1ch 00/57600/38400/19200/9600/ Obps ecter terminal block, 9-pin runication with PLC 3 ² : OPEN'110Q (330Q sistance transfer switch)	Transmission speed:	2, 1ch, 115200/57600/38400/ 0/4800bps, Connecter terminal	GT1020-LBD/LWD, G RS-422 Transmission speed: 11520 480 Connector shape: Conne Application: Comm Terminal resistance ³ (switched by terminal re	485 1ch 0/57600/38400/19200/9600/ /bps kdor terminal block, 9-pin unication with PLC : OPEN/110Q/330Q	Transmission speed: 19200/960	2, 1ch, 115200/57600/38400 0/4800bps, Connecter terminal	
Built-in interface		RS-42	GT1030-LBLWILWLW 22, 1ch 30/57600/38400/19200/9600/	block Application: Comm	.9-pin unication with PLC	PLCGT1020-LBL/LWL RS-42 Transmission speed: 11520 480	22 1dh		, 9-pin iunication with PLC	
		480 Connector shape: Conne	IObps ector terminal block, 9-pin munication with PLC			Connector shape: Conn	ector terminal block, pin			
	For communication with personal computer	480 Connector shape: Conne	ector terminal block, 9-pin nunication with PLC		Connector shape: M		ector terminal block, pin unication with PLC 0/9600/4800bps	arent function)		
uzzer out	with personal computer	480 Connector shape: Conne	ector terminal block, 9-pin nunication with PLC		Connector shape: M sonal computer (projec	Connector shape: Conn Application: Comm 200/57600/38400/1920 ini DIN 6-pin (female)	ector terminal block, pin unication with PLC 0/9600/4800bps	arent function)		
	with personal computer tput	480 Connector shape: Conne	ector terminal block, 9-pin nunication with PLC		Connector shape: M sonal computer (projec Single tone (tone let	Connector shape: Conn Application: Comm 200/57600/38400/1920 ini DIN 6-pin (female) t data upload/download ngth adjustable/none)	ector terminal block, pin unication with PLC 0/9600/4800bps	arent function)		
rotective	with personal computer tput construction ¹⁴	480 Connector shape: Conne	edor terminal block, 9-pin nunication with PLC Application: C	communication with per	Connector shape: M sonal computer (projec Single tone (tone let	Connector shape: Conn Application: Comm 2000/57600/38400/1920 ini DIN 6-pin (female) t data upload/download	edor terminal block, pin unication with PLC 0/9600/4800bps , OS installation, transp			
Protective External di	with personal computer tput construction ¹⁴	480 Connector shape: Conne	ector terminal block, 9-pin runication with PLC Application: C 145(W)×76(H	ommunication with per	Connector shape: M sonal computer (projec Single tone (tone let	Connector shape: Conn Application: Comm 200/57600/38400/1920 ini DIN 6-pin (female) t data upload/download ngth adjustable/none)	dor terminal block, pin unication with PLC 0/9600/4800bps , OS installation, transp 113(W)×74(H)×27(D)[mm]		
External di	with personal computer tput construction ^{*4} imensions	480 Connector shape: Conn Application: Comm GT10304	ector terminal block, 9-pin runication with PLC Application: C 145(W)×76(H	communication with per	Connector shape: M sonal computer (projec Single tone (tone ler Conforming to IP67f (Connector shape: Conn Application: Comm 200/57600/38400/1920 ini DIN 6-pin (female) t data upload/download ngth adjustable/none)	ector terminal block, pin unication with PLC 0/9600/4800bps , OS installation, transp 113(W)×74(H 105(W)×6 g (excl. mounting brackets))×27(D)[mm] 6(H)[mm]	unting brackets)	

Applicable somware package
 GI Works 3 Version 1 ²
 GI Works

1

GOT

2

SOFTWARE

3

CONNECTION CONFIGURATION

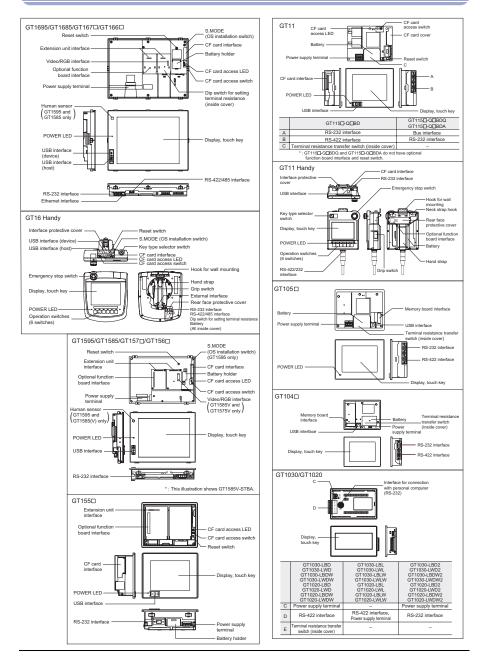
5

COMPLIANCE WITH OVERSEAS STANDARDS

6

EQUIPMENT, SOFTWARE, AND MANUALS

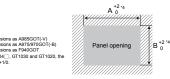
1.3 Part Name



1.4 Installation

Panel cut dimensions

Screen size	Type of GOT main unit	A	В	
15"	GT1695	383.5	282.5	
15	GT1595	363.5	202.0	
12.1"	GT1685 ¹¹	302	228	
12.1	GT1585 ¹¹	302	220	*1: Same di *2: Same di *3: Same di *4: For the C tolerance
10.4"	GT167 ^{*2}	289	200	
10.4	GT157 ^{*2}	209	200	
8.4"	GT166	227	176	
0.4	GT156	221	170	
	GT155 "3			
5.7"	GT115 ^{*3}	153	121	
	GT105 "3			
4.7"	GT104	130	103	
4.5"	GT1030	137	66	
3.7"	GT1020	105	66	



When CF card extension unit (mounting unit on control panel) is installed



Cautions when installing and uninstalling

When installing the CF card scienciaro unit on the control panel, make sure that the extension unit does not interfare with the extension unit cable or the CF card interface of the GOT. Place the CF card extension unit at a distance of 25mm or more from the GOT. For installation locations, see the CI 16 User's Manual or the CI15 User's Manual.

For compatibility with GOT900 series, see "Backward compatibility" (page 51).

Product installation interval

The GOT must have the clearances from other devices as shown in [Fig. A]. The GOT may require more distance than the dimensions shown in the table depending on the types of connection cables. Consider the connector dimensions and radius of cable bending curvature when designing the installation.

Wi ins Wi ins Wi ins	OT only fhen bus connection unit is installed fhen serial communication unit is stalled fhen RS-422 conversion unit is	50 or more (20 or more)	50 or more (24 or more)		(20				50 or more			
Wi ins Wi ins Wi ins	/hen serial communication unit is stalled /hen RS-422 conversion unit is				50 or more (20 or more)							
ins Wi ins Wi ins	stalled /hen RS-422 conversion unit is			50 or more (33 or more)	50 or more (43 or more)	50 or more	(20 or more)	50 or more (35 or more)	50 or more (40 or more)	50 or more		
ins Wi			50 or more)									
ins	stalled	50 or more (20 or more)	50 or more (39 or more)	50 or more (48 or more)	58 or more	50 or more (20 or more)	50 or more (39 or more)	53 or more	58 or more	-		
	/hen Ethernet communication unit is stalled	50 or more (20 or more)				re)						
	/hen CC-Link communication unit GT15-J61BT13) is installed				50 or more (2	0 or more)				50 or more (24 or more)		
	hen CC-link IE controller network	50 c	or more (20 or more	e)	50 or more (28 or more)	50 or more	(20 or more)	50 or more (23 or more)	50 or more (28 or more)	57 or more		
	/hen MELSECNET/H communication hit (coaxial) is installed	50 or more (2	0 or more)	50 or more (25 or more)	50 or more (35 or more)	50 or more	(20 or more)	50 or more (30 or more)	50 or more (35 or more)	64 or more		
	/hen MELSECNET/H communication hit (optical) is installed	50 or more (20 or more) ^{*1}	50 or more (23 or more) ¹	50 or more (32 or more) ¹¹	50 or more (42 or more) ¹	50 or more (20 or more) ¹	50 or more (23 or more) ¹	50 or more (37 or more) ¹¹	50 or more (42 or more) ^{*1}	79 or more ¹¹		
W	/hen printer unit is installed	50 or more (20 or more)					50 or more (29 or more)					
W	/hen multimedia unit is installed	50 or more (20 or more) ^{*2}	61 or more ^{*2}	70 or more ^{*2}	80 or more ^{*2}			-				
w	/hen video input unit is installed	50 or more (20 or more)*2	61 or more ^{*2}	70 or more*2	80 or more*2	-	61 or more	75 or more ^{*2}				
R	GB input unit	50 or	more (20 or more))*3	50 or more (25 or more) ^{*3}	-	50 or more (20 or more) ^{*3}				
vic	deo/RGB input unit	50 or more (20 or more)*2*3	61 or more*2 *3	70 or more*2*3	80 or more*2 *3	-	61 or more*2*3	75 or more ^{*2*3}				
R	GB output unit	50 o	r more (20 or more)*3	50 or more (25 or more) *3	-	50 or more (20 or more) ^{*3}				
W	/hen CF card unit is installed				50 c	or more (20 or more	e)					
	F card extension unit	50 or more (20 or more)	50 or more (49 or more)	58 or more	68 or more	50 or more (20 or more)	50 or more (49 or more)	63 or more	68 or more	97 or more		
	/hen audio output unit is installed				50 c	or more (20 or more	a)					
	/hen external input/output unit is stalled	50 0	or more (20 or more	e)	50 or more (29 or more)		(20 or more)	50 or more (24 or more)	50 or more (29 or more)	58 or more		
						or more (20 or more						
	Vhen CF card is not used)					or more (20 or more	9)					
(W	Vhen CF card is used)				50 or more (2	0 or more) or more (20 or more				100 or more		

*1: The distance varies depending on the cable to be used. For details, consult the closest Mitsubishi Electric System & Service office.

The values in the table are given for your reference. 2: The distances required when the coasial cable 3C-2V (JIS C 3501) is used. 3: The distances required when the coasial cable 3C-2W (JIS C 3501) is used.

1

GOT

2

SOFTWARE

4 FUNCTION

CONNECTION CONFIGURATION

5

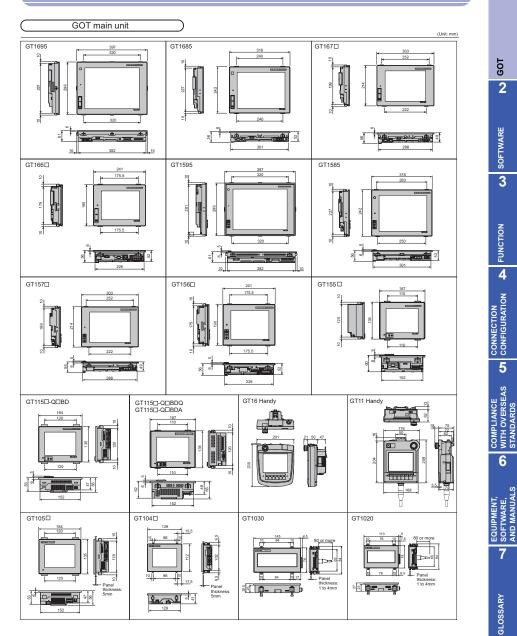
COMPLIANCE WITH OVERSEAS STANDARDS

• GT11					(Unit: mm)	[Fig. A]
GOT main unit	A, D	В	When CF card is not used	C When CF card is used	E	
GT1155 GT1150	50 or more (20 or more)	80 or more ^{*1} (20 or more)	50 or more ^{*2} (20 or more)	100 or more	100 or more (20 or more)	
*1: 50 or more (20 or n *2: 80 or more (20 or n • GT10					(Unit: mm)	
GOT main unit	A	В	С	D	E	device or A
GT105 GT104	50 or more (20 or more)	80 or more (20 or more)	50 or more (20 or more)	50 or more (20 or more)	100 or more (20 or more ^{*3})	panel
GT1030 GT1020	50 or more (20 or more ^{*1})	50 or more (20 or more)	50 or more (20 or more)	50 or more	80 or more (20 or more ^{*2})	2 to 4mm
*1: 50 or more when a					NAICO interferencie u	

2. So of more when an IN-SCAD OUTCOMMENT adapter IS BEAU 22 Bor more when a personal computer connection callels is used or when a personal computer RS-232USB interface is used for connecting multiple GOTs. 50 or more when an RS-232 interface is used for using an RS-232USB conversion adapter.
3. 80 or more when using a USB called or a memory board.

Dimensions shown in parentheses apply when there are no devices nearby (contactor, etc.) which produce radiated noise or heat. Even with these dimensions, however, the ambient temperature must never exceed 55°C. Depending on the unit and cable being used, a cable length longer than dimension A (or dimension D for the GT10) in above [Fig. A] may be required.

1.5 External Dimensions



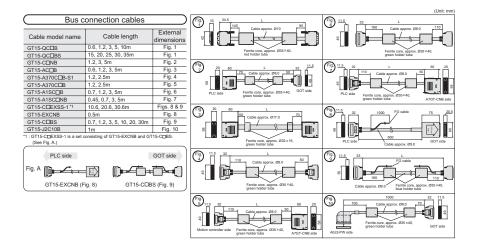
COMPLIANCE WITH OVERSEAS STANDARDS 6

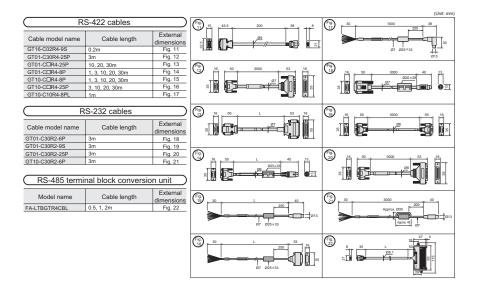
5

1

GOT 2

SOFTWARE





	• Comn		lantianal unita	
	Comn			
		nunication units/bus extension co	nnector boxes	
		Product name	Model name	
			1ch GT15-QBUS	Fig. 1
				Fig. 2
	Bus			Fig. 1
	connection	Thin model of bus connection unit for		
	nit	QCPU (Q mode)/motion controller CPU (Q Series)		
		Thin model of bus connection unit for		
	_	QnA/ACPU/motion controller CPU (A Series)	2ch GT15-75ABUS2L	Fig. 3
		RS-232 serial communication unit	GT15-RS2-9P	Fig. 4
	erial			
	mmunication	(D-sub 9-pin (female))	GT15-RS4-9S	Fig. 4
	nit	RS-422/485 serial communication unit		
		(terminal block)		-
	RS-422	RS-232) GT15-RS2T4-9P	
	onversion unit	RS-232 -> RS-422 conversion unit (25-p	n) GT15-RS2T4-25P	
	lus exten	sion connector box		Fig. 7
			GT15-J71EP23-25	
			GT15-J71GP23-SX	
			unit GT15-J61BT13	
			GT15-J71E71-100	Fig. 13
	Serial mul	ti-drop connection unit	GT01-RS4-M	Fig. 14
	Connector	conversion adapter	GT10-9PT5S	Fig. 15
	C-Link in	iterface unit	GT11H(S)-CCL	Fig. 16
	Optio	nal units		_
				External
		Product name		dimensions
	Printer uni	t		Fig. 17
				Fig. 18
Bit produ uni CT 1972/92 T <td>/ideo inc:</td> <td>it unit</td> <td></td> <td>Fig. 19</td>	/ideo inc:	it unit		Fig. 19
				Fig. 20
	RGB input	unit		Fig. 19
Hole NGB ling unitCTISN / 2014/HFrég 20GB aupur unitCTISN / 2014/HFrég 20F aut unitCTISN / 2015/HFrég 20F aut unit ductCTISN / 2015/HFrég 20F aut unit duct2 (point frég 20)CTISN / 2015/HF aut unit duct2 (point frég 20)CTISN				Fig 19
GBI output unit CT15-GPC OSE FP3 22 Fraid estimation unit CT15-GPC OSE FP3 22 Fraid estimation unit CF and estimation unit CT15-GPC OSE FP3 22 Fraid estimation unit CT15-GPC OSE FP3 22 Fraid estimation unit CF and estimation unit CT15-GPC OSE FP3 22 Fraid estimation unit CT15-GPC OSE FP3 22 Fraid estimation unit CF and estimation unit CT15-GPC OSE FP3 22 Fraid estimation unit CT15-GPC OSE FP3 22 Fraid estimation unit CF and estimation unit CT15-GPC OSE FP3 22 Fraid estimation unit CT15-GPC OSE FP3 22 Fraid estimation unit CF and estimation as to D for each communication unit CT15-GPC OSE FP3 22 Fraid estimation as to D for each communication unit CT15-GPC OSE FP3 22 Fraid estimation as to D for each communication unit CF and estimation as to D for each communication unit CT15-GPC OSE FP3 22 Fraid estimation as to D for each communication unit CU for each communication unit CU for each communication unit CF and estimation as to D for each communication unit CU for each communication unit TF5-GPC OSE FF3 FF3 FF3 FF3 FF3 FF3 FF3 FF3 FF3 FF	Video/RGI	B input unit	GT15V-75V4R1	Fig. 20
GBG output unit OTISV/756/OUT Fig. 22 Franz dramation unit OTIS/576/OCOSET Fig. 22 Standardian unit Standardian unit Fig. 22 Standardian unit Standardian Unit Standardian Unit Standardian Unit Standardian Unit Standardian Unit Standardian Unit Standardian Unit Standardian Unit Standardian Unit Standardian Unit Standardian Unit Standardian Unit Standardian Unit Standardian Unit <t< td=""><td></td><td></td><td>GT16M-ROUT</td><td>Fig. 21</td></t<>			GT16M-ROUT	Fig. 21
Financia demonsion unit 0T15 CFEX COBET Fig. 25 Starmal input/output unit 0T15 SOUT Fig. 26 Starmal input/output unit 0T15 SOUT 0T15 SOUT Fig. 26 Starmal input/output unit 0T15 SOUT 0T15 SO			GT15V-75ROUT	Fig. 21
			GT15-CFCD	Fig. 22
Attracting undit dupped unit Or 115 DED TI 15 DED <			GT15-CFEX-C08SE	
Attracting undit dupped unit Or 115 DED The document of the state of the model. 1: The connector shape varies depending on the model. 1: The connector shape varies depending on the model. 1: The connector shape varies depending on the model. 1: The connector shape varies depending on the model. 1: Disconsion X here do the state dom 1: The connector shape varies depending on the model. 1: The connector shape varies depending on the model. 1: The connector shape varies depending on the model. 1: Disconsion X here do To instated 1: The connector shape varies depending on the model. 1: The connector shape varies depending on the model. 1: The connector shape varies depending on the model. 1: Disconsion X here do 1: The connector shape varies depending on the model. 1: The connector shape varies depending on the model. 1: The connector shape varies depending on the model. 1: The connector shape varies depending on the model. 1: Disconsion X here do 0: Or max 1: Unit. minit 1: Unit. minit 1: Unit. minit 1: The connector Shape varies depending on the model. 1: Unit. minit 1: Unit. minit 1: Unit. minit 1: The connector Shape varies depending on the model. 1: Unit. minit 1: Unit. minit 1: Unit. minit 1: The connector Shape varies depending on the model. 1: Unit. minit 1: Unit. minit	Audio outp	put unit	GT15-SOUT	
	External in	put/output unit		Fig. 25
The documental balance Tend of the documentation with the document of the docum				Fig. 25
1: The consider a hupe varies depending on The model. 1: The consider a hupe varies depending on The model. 1: Source a transmission on net. Model name 1: Source a transmission on the model. 1: Source a transmission on the model name 1: Source a transmission on the tr	Handy GC	T connector conversion box		Fig. 20
 Chamman A to D for each communication unit <u>TITS-0RUS 2 s it 1 3 is 5 2 s 3 3 5 15 2 s 3 3 5 15 2 s 3 3 5 15 2 s 5 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</u>				
 Chamman A to D for each communication unit <u>TITS-0RUS 2 s it 1 3 is 5 2 s 3 3 5 15 2 s 3 3 5 15 2 s 3 3 5 15 2 s 5 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</u>	1 : The cor	nector shape varies depending on the model		
315-020192 2 s 11 s 1 s 315-020192 2 s 11 s 1 s 1 s 315-020192 1 s 1 s 1 s 1 s 115-020192 1 s 1 s 1 s 1 s 1 s 115-020192 1 s <	2 : Dimens	ions A to D for each communication unit	_	
ST15-GOUS 2.2 11 3.15 - ST15-GOUS 2.2 11 3.15 - ST15-GOUS 2.2 11 3.15 - ST15-GOUS 2.5 1.5 3.5 - ST15-GOUS 2.5 1.5 3.5 - ST15-GOUS 2.5 - - - - ST15-GOUS 2.5 -				
1315420122 2.4 15 2.0 1 1.0 1 1.0 1 1.0 1.0 1.0 1 1.0 1			-	
			-	
1: Omnomous X when GOT is insulation X when GOT is marked in the Control of the State Sta			-	
¹ Or many proving the standard difference of the standard d			-	
¹ Or many proving the standard difference of the standard d			it factor	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	100 0			unit factor)
Image: product of the second state			r (main	
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Image: State of the construction of		GT1695		
Image: Book of Indexed: Image: Book of Indexed: <td></td> <td>GT1695 GT1595</td> <td></td> <td>0.5</td>		GT1695 GT1595		0.5
28.2 ± 1 (Unit: mm) 0 point factor for communication untilegion units (Unit: mm) 115-07C0, 0115-07EX-0085ET 20.5 1515-07C0, 0115-07EX-0085ET 20.5 1515-07C0, 0115-07EX-0085ET 21.5 1515-07C0, 0115-07EX-0085ET 21.5 1515-07C0, 0115-07EX-0085ET 35.5 1515-07C0, 0115-07EX-08015, 0115-880476, 0115-97EX 35.5 1515-07C0, 0115-07EX-08057, 0115-97EX 35.5 1515-07C0, 0115-07EX-08057, 0115-97EX 35.5 1515-07C0, 0115-07EX-0807, 0115-97EX 35.5 1516-07C0, 0115-07EX-08057, 0115-97EX 35.5 1516-07C0, 0115-07EX-08058, 0115-97EX 21.5 1516-07C0, 0115-07EX-08058, 0115-97EX 21.5 1516-07C0, 0115-07EX (Unit: mn) Conclusted of dimension X (Unit: mn) Conclusted on dimension X (Unit: mn) 15175-57200USX 2 (option factor) + 2 (opti		GT1695 GT1595 GT1685, GT1	85 - 3	0.5 3.5
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$ \frac{1}{15 \times 730} 1$		GT1695 GT1595 GT1885,GT1: GT1685,GT1 GT166,GT1 GT166,GT1	85 - : 57 - C	0.5 3.5 0.5
3TIS-GEO, GTIS-CREX-0985ET 20.5 3TIS-BUAHA, GTISM-KRI, GTISM-SROUT, 20.5 3TIS-BU-764, GTISM-KRI, GTISM-STABAUSZ, 21.5 STIS-BUS, GTIS-RASH-85, GTIS-JIRBA-1E, GTISJ-TIRADUZ, 21.5 STIS-BUS, GTIS-RASH-85, GTISJ-SIBTIS, GTISJ-SPRN, 21.5 STIS-BUS, GTIS-RASH-85, GTISJ-SIBTIS, GTISJ-SPRN, 21.5 STIS-DIC, GTIS-SOUC, GTIS-SOUC, GTIS-SOUC, GTISJ-SOUC, TIRABUS, GTISJ-SIBTIS, GTISJ-SPRN, 10.00000000000000000000000000000000000	Other device	GT1695 GT1695 GT1695 GT1695 GT1695 GT1695 GT1695 GT1695 GT1695 GT1695 GT1695 GT1695 GT1695 GT1695 GT1695 GT1695	85 - : 57 - C	0.5 3.5 0.5
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Dther device	GT1685 GT1595 GT1685,GT1 GT1685,GT1 GT1685,GT1 GT1686,GT1 GT1686,GT1 GT1686,GT1 GT1686,GT1 GT1686,GT1	85 - 3 57 - 0 56 , GT155 1	0.5 3.5 0.5 .5 (Unit: mm)
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Dither device Option fi	GT 1695 GT 1595 GT 1595 GT 1685, GT 1 GT 1685, GT 1 GT 1685, GT 1 GT 1685, GT 1 GT 1686, GT 1 GT 166, GT 1 GT 166, GT 1 GT 166, GT 1 GT 166, GT 1 GT 1695 GT 1	85	0.5 3.5).5 (Unit: mm) on factor)
$\begin{array}{c} 1 \text{ Jorder} A Jorder$	Dither device Option fa GT15-CF(GT1695 GT1595 GT1595 GT1685, GT1 GT167, GT1 GT167, GT1 GT167, GT1 GT167, GT1 GT167, GT1 GT167, GT1 GT167, GT1 GT167, GT1 GT169, GT16, GT1 GT169, GT169, GT160, GT160, GT1 GT169, GT169, GT160, GT1 GT169, GT169, GT169, GT160, GT1	85 - : 57 - C 56 , GT155 1 Z (optic 2	0.5 3.5).5 (Unit: mm) on factor)
2115 HSR2492, C115/RSR4592, C115/RSR4TE, C115/DTL/22255, 21.5 2115 HSR2492, C115/RSR4592, C115/RSR4TE, C115/DTL/22255, 21.5 2115 HSR2492, C115/RSR4592, C115/RSR4592, C115/RSR45, C115/RSR45, C115/RSR459, C115/RS8459, C115/RSR459, C115/RS845	Dither device Option fr GT15-CF0 GT16M-V-	GT1695 GT1695 GT1695 GT1695 GT167 GT167 GT167 GT167 GT166 GT166 GT167 GT167 GT1685 GT166 GT166 GT166 GT168 GT166 GT168 GT166 GT168 GT168	85	0.5 3.5).5 (Unit: mm) on factor)
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Diher device Option fi GT15-CF(GT16M-V/ GT15V-75	GT1695 GT1695 GT1895,GT1895 GT1685,GT1 GT168,GT1 GT166,GT1 GT160,GT1 GT166,GT1 GT160,GT1 GT166,GT1 GT160,GT1 GT166,GT1 GT160,GT1 GT166,GT1 GT160,GT1 GT166,GT1 GT160,GT1 GT160,GT1 GT160,GT1 GT160,GT1 GT160,GT1 GT160,GT1 GT150,GT1 GT160,GT1 GT160,GT1 GT160,GT1	85 - 57 - 0 57 - 0 58 , GT155 1 Z (option 17, 22 75ROUT,	0.5 3.5).5 (Unit: mm) on factor)
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Dher device Option fa GT15-CF(GT16M-V/ GT15V-75 GT15-QB	GT1695 GT1695 GT1695,GT1695,GT1695,GT1695,GT1695,GT1695,GT1 GT1685,GT1 OUT main well GT1665,GT1 Actor for communication units/option units Model name 20, GT15-CFEX-C0858ET GT168-X71,GT168-X704H,GT168-X704H,GT168-X704H,GT159,GT15-X754H,GT159,X704H,GT159,GT15-X6455,GT15-X645,GT15-X645,GT15-X645,GT15-X645,GT15-X645,GT15-X645,	85	0.5 3.5 .5 (Unit: mm) on factor) 0.5
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Ditter device Option fa GT15-CF(GT16M-V/ GT15V-75 GT15-QBI GT15-RS2	GT1695 GT1695 GT1695.GT1 GT167.GT1 GT167.GT1 GT167.GT1 GT167.GT1 GT167.GT1 GT167.GT1 GT167.GT1 GT167.GT1 GT167.GT1 GT167.GT1 GT167.GT164.FQ1 AG164.R2GC164.V441,GT15 JS.GT15-CFEX-C085ET J.GT16X-FQ2.GT15-R540S,GT15-R54 JS.GT15-08US2,GT15-R540S,GT15-R54 JS.GT15-08US2,GT15-R540S,GT15-R54 JS.GT15-08US2,GT15-R547E,GT15	85	0.5 3.5 .5 (Unit: mm) on factor) 0.5
10 Index Mark (S1152-/1242-55X 35.5 Calculated of dimension X (Unit: mm) Calculated of dimension X (Unit: mm) Consumption Structure (S1152-/1242-55X (Unit: mm) Three-layer configuration: Y (main unit factor) + 2 (option factor) + 2 (option factor) (unit: mm) Three-layer configuration: Y (main unit factor) + 2 (option factor) +	Mitter device Option fr GT15-CF(GT16M-V/ GT15V-75 GT15-QB(GT15-RS) GT15-RS) GT15-RS) GT15-RS)	GT1695 GT1695 GT1895,GT195 GT1895,GT1 GT1885,GT1 GT1885,GT1 GT185,GT1 GT166,GT1 GT164,GT1 GT166,GT1 GT164,GT1 GT166,GT1 GT165,GT1 GT166,GT1 GT160,GT2 GT166,GT1 GT160,GT2 GT166,GT1 GT160,GT2 GT166,GT1 GT160,GT2 GT166,GT1 GT160,GT2 GT160,GT2	85	0.5 3.5 .5 (Unit: mm) on factor) 0.5
Laculation Unifierential A Two-layer configuration: Y (main unit lactor) + Z (option factor) + Z (option factor) Two-layer configuration: Y (main unit lactor) + Z (option factor) + Z	Deption fa Option fa GT15-CFC GT16M-V4 GT15V-75 GT15-QBI GT15-QBI GT15-QBI GT15-QBI GT15-QBI GT15-CBI GT15-DIC	GT1695 GT1695 GT1695 GT1695,GT1 GT1695,GT1 GT167,GT1 GT167,GT1 GT167,GT1 GT164,GT1 GT166,GT1 GT164,GT1 GT166,GT1 GT164,GT1 GT166,GT1 GT164,GT1 GT166,GT1 JO, GT15-CFEX-C085ET GT164,M211,GT164,M20,GT15,M2 JS, GT15-GEUS2,GT15,ABUS,GT15,AE GT15,ABUS,GT15,AE JS, GT15-GBUS2,GT15,ABUS,GT15,AE GT15,ABUS,GT15,AE JS, GT15-GBUS2,GT15,ABUS,GT15,AE GT15,ABUS,GT15,AE JS, GT15-GT15,AUT,TE,GT15,GUT15,AUT,GT15,SUT GT15,SUT	85 C 57 C 56 , GT155 1 1 2 (option 17, -75ROUT, 192, 17, -75ROUT, 192, 17, -75ROUT, 192, 17, -75ROUT, 192, -2 192, -2 193,	0.5 3.5 .5 (Unit: mm) on factor) 0.5
Two-Legree configuration: Y (main unit factor) + 2 (option factor) + 2 (option factor) Torme-legree configuration: Y (main unit factor) + 2 (option factor) + 2 (option factor) There-legree configuration: Y (main unit factor) + 2 (option factor) + 2 (option factor) There-legree configuration: Y (main unit factor) + 2 (option factor) + 2 (option factor) There-legree configuration: Y (main unit factor) + 2 (option factor) + 2 (option factor) There-legree configuration: Y (main unit factor) + 2 (option factor) + 2 (option factor) There-legree configuration: Y (main unit factor) + 2 (option factor) + 2 (option factor) There-legree configuration: Y (main unit factor) + 2 (option factor) + 2 (option factor) There-legree configuration: Y (main unit factor) + 2 (option factor) + 2 (option factor) There-legree configuration: Y (main unit factor) + 2 (option factor) + 2 (option factor) There-legree configuration: Y (main unit factor) + 2 (option factor) + 2 (option factor) There-legree configuration: Y (main unit factor) + 2 (option factor) + 2 (option factor) There-legree configuration: Y (main unit factor) + 2 (option factor) + 2 (option factor) There-legree configuration: Y (main unit factor) + 2 (option factor) + 2 (option factor) There-legree configuration: Y (main unit factor) + 2 (option factor) + 2 (option factor) There-legree configuration: Y (main unit factor) + 2 (option factor) + 2 (opti	Option fa Option fa GT15-CF0 GT16M-V GT15-QBI GT15-QBI GT15-QBI GT15-RS2 GT15-JDIC GT16M-M	GT1695 GT1695 GT1895,GT195 GT1895,GT GT188,GT1 GT188,GT1 GT188,GT1 GT166,GT1 GT168,GT1 GT166,GT1 GT166,GT1 GT166,GT1 GT166,GT1 GT166,GT1 JOT INGUE Model name D, GT15-CF2-C08SET GT164,GT154,GT164-F00 JG, GT15-GR4-2G, GT15-R54-GT154,GT154-FE GT154,GT154,GT154-FE JG, GT15-R54-2G, GT15-R54-FE GT154,S401T JG, GT15-GT62-SSUT MGT167/GF22-SSUT	85 C 57 C 56 , GT155 1 1 2 (option 17, -75ROUT, 192, 17, -75ROUT, 192, 17, -75ROUT, 192, 17, -75ROUT, 192, -2 192, -2 193,	0.5 3.5 0.5 (Unit: mm) on factor) 0.5 1.5 5.5
Three-singer configuration: Y (main unit factor) + Z (option facto	Option fa Option fa GT15-CF(GT16M-V/ GT15V-75 GT15-QBI GT15-QBI GT15-QBI GT15-QDI GT15-DIC GT16M-M QT16-M-M	GT1895 GT1895 GT1895 GT1895 GT1895 GT1895 GT187 GT187 GT GT187 GT GT187 GT GT187 GT GT187 GT GT1865 GT GT187 GT GT187 GT GT187 GT GT187 GT GT187 GT187 GT187 GT187 GT187 GT187 GT187 GT1885 GT1884 GT187 GT1885 GT187 GT1885 GT1885 GT1884 GT158007 GT15-8007 MR <gt15-7 108258x<="" td=""> GT15-8017 MR<gt15-7 108258x<="" td=""> GT15-8017</gt15-7></gt15-7>	85	0.5 3.5 0.5 (Unit: mm) on factor) 0.5 1.5 5.5
i Dimensiona A for each <u>Communication on the function of th</u>	Other device Option fa GT15-CF(GT16M-V- GT15V-75 GT15-QBI GT15-QBI GT15-QBI GT15-QBI GT15-QBI GT15-DIC GT15-DIC GT15-DIC GT16M-MI One-laye	Configuration of the second se	85	0.5 3.5 .5 (Unit: mm) on factor) 0.5 1.5 5.5 (Unit: mm)
$\begin{array}{c} \hline 2 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 1 \\ \hline 2 \\ \hline 2 \\ \hline 5 \\ \hline 5 \\ \hline 1 \\ \hline 5 \\ \hline 7 \\ 7 \\$	Dher device Option fs GT15-CF(GT16M-V/ GT15V-75 GT15-QBI GT15-VBI GT15-VBI GT15-VBI GT15-DIC GT15-JDIC GT16M-M Calculatic One-laye Two-laye	GT1695 GT1695 GT1695, GT1695, GT1695, GT1695, GT1695, GT1695, GT1695, GT1 GT1695, GT167, GT1 OUT main well GT1695, GT167, GT1 Actor for communication unbidroption unbid GT166, GT1 D, GT16-CFEX-C085ET Model name D, GT16-CFEX-C085ET Model name D, GT16-FEX-C085ET Strateging J, GT16-BLS, GT15, SUB, GT15, SUB, GT15-SUB, GT15-	85	0.5 3.5 (Unit: mm) on factor) 0.5 1.5 (Unit: mm) 0.5 (Unit: mm)
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Other device Option fa GT15-CFG GT15-M-V- GT15-QB GT15-QB GT15-QB GT15-QB GT15-DIC GT15	GT1695 GT	85	0.5 3.5 (Unit: mm) on factor) 0.5 1.5 (Unit: mm) 0.5 (Unit: mm)
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Other device Other device Option fs GT15-CFC GT15-CF	GT1695 GT1695 GT1895,GT1895 GT1895,GT GT1885,GT1 GT1885,GT1 GT188,GT1 GT1885,GT1 GT186,GT1 GT166,GT1 GT166,GT1 GT166,GT1 GT167,GT1 GT166,GT1 GT167,GT1 GT166,GT1 GT152,GT2 GT164,GT14,GT18HAR J,GT154,GT2,GS85T GT152,GT14,GT18H,GT18H JS, GT15-GBUS2,GT15-ABUS,GT15-AB	85	0.5 3.5 (Unit: mm) on factor) 0.5 1.5 (Unit: mm) 0.5 (Unit: mm)
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Other device Other device Option fit GT15-CF(GT16M-V, GT15-V75 GT15-QBI GT15-QBI GT15-QBI GT15-QBI GT15-DIC GT15-DIC GT15-J71 GT15-J71 GT15-J71 GT15-J71 GT15-J74 GT15-J71 GT15-J74 GT15-J71 GT15-J74 GT16-J74 GT16-J	GT1695 GT	85	0.5 3.5 (Unit: mm) on factor) 0.5 1.5 (Unit: mm) 0.5 (Unit: mm)
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Other device Option f Option f GT15-CFC GT15-CFC GT15-QB GT15-ZB GT GT15-ZB GT GT GT GT GT GT GT GT GT GT	GT1695 GT1695 GT1895,GT1	85	0.5 3.5 (Unit: mm) on factor) 0.5 1.5 (Unit: mm) 0.5 (Unit: mm)
2 moreanions X when GOT is installed Prod GT 15 Prod GT 15 Pr	Other device Option fa GT15-CFC GT15M-V-V GT15V-75 GT15-JDC	GT1695 GT1695 GT1895,GT1895 GT1895,GT GT1885,GT1 GT1885,GT1 GT1885,GT1 GT1885,GT1 GT1885,GT1 GT1865,GT1 GT1865,GT1 GT1865,GT1 GT166,GT1 GT166,GT1 GT167,GT1 GT166,GT1 GT167,GT1 GT167,GT1 GT167,GT1 GT167,GT1 GT167,GT1 GT167,GT1 GT167,GT1 GT167,GT1 GT15,GT1 GT167,GT1 GT15,GT1 GT15,GT1 GT14,GT14,GT16 GT167,GT17	85	0.5 3.5 (Unit: mm) on factor) 0.5 1.5 (Unit: mm) 0.5 (Unit: mm)
Installed For GY15 57 6.5 157,10.4" 8 2.1" 5 12.1" 5	Other device Option fi GT15-CFC GT16M-V GT15-V75 GT15-QB GT15-QB GT15-QB GT15-RS; GT15-QB GT15-RS; GT15-R	0.71895 GT1895 GT1895,GT	85	0.5 3.5 (Unit: mm) on factor) 0.5 1.5 (Unit: mm) 0.5 (Unit: mm)
Fac GT16 Offic T Fac dT15	Other device Option fa GT15-CF(GT15M-V; GT15V-75 GT15-QBI GT15-QBI GT15-QBI GT15-QBI GT15-QBI GT15-QBI GT15-CF(GT15-QBI GT15-CF(GT15-QBI Calculatic One-layer Two-laye Two-laye Two-laye Two-layer Two-layer Two-layer GT15-75C GT15-75A GT15-75A GT15-75A GT15-75A	GT1695 GT1695 GT1695, GT1695, GT1695, GT1695, GT1695, GT GT1695, GT GT1682, GT1 GT1662, GT1 GT1682, GT1 GT1662, GT1 GT167, GT1 GT166, GT1 GT167, GT1 GT166, GT1 GT167, GT1 GT166, GT1 GT167, GT1 GT164, GT16, GT164, G	85	0.5 3.5 (Unit: mm) on factor) 0.5 1.5 (Unit: mm) 0.5 (Unit: mm)
15" 16.5 16", 10.4" 8 120 21 5 12.1" 5 12.1" 5 12.1" 5 12.1" 5 12.1" 5 12.1" 5 12.1" 5 12.1"	Cher device Option of the second of the sec	GT1695 GT1695 GT1695, GT1695, GT1695, GT1695, GT1695, GT GT1695, GT GT1682, GT1 GT1662, GT1 GT1682, GT1 GT1662, GT1 GT167, GT1 GT166, GT1 GT167, GT1 GT166, GT1 GT167, GT1 GT166, GT1 GT167, GT1 GT164, GT16, GT164, G	85	0.5 3.5 (Unit: mm) on factor) 0.5 1.5 (Unit: mm) 0.5 (Unit: mm)
2.1" 5 12.1" 5 0.4" 8 8.4", 5.7" 10	Control Contro	GT1695 GT1695 GT1895,GT195 GT1895,GT195 GT1895,GT1 GT1895,GT1 GT1885,GT1 GT1865,GT1 GT185,GT1 GT1865,GT1 GT185,GT1 GT1865,GT1 GT166,GT1 GT1865,GT1 GT167,GT1 GT1865,GT1 GT167,GT1 GT1864,GT1 GT15,GT2,GC85ET GT185,GGT1 GT15,GD12,GT15,GT12,GT15,GT12,GT15,GT12,GT15,GT12,GT12,GT12,GT12,GT12,GT12,GT12,GT12	85	0.5 3.5 (Unit: mm) on factor) 0.5 1.5 (Unit: mm) 0.5 (Unit: mm)
0.4* 8 8.4*, 5.7* 10	Dura device option for GT15-CF1 GT15-CF1 GT15-CF1 GT15-CF3 GT15-750 G	GT1695 GT169 GT169 GT169 GT16 GT169 GT16 GT1 GT16 GT16 GT1 GT16 GT1 GT16 GT1 GT16 GT1 GT1 GT1 GT1 GT16 GT1 GT	85	0.5 3.5 (Unit: mm) on factor) 0.5 1.5 (Unit: mm) 0.5 (Unit: mm)
	Der device 0 option für 0 op	GT1695 GT169 GT169 GT169 GT16 GT169 GT16 GT1 GT16 GT16 GT16 GT1 GT16 GT1 GT16 GT1 GT16 GT1 GT16 GT1 GT16 GT1	85	0.5 3.5 (Unit: mm) on factor) 0.5 1.5 (Unit: mm) 0.5 (Unit: mm)
	ther device option fr GT15-CF(GT15-CF(GT15-CF(GT15-CF) GT15-CF(GT15-CF) GT15-CF(GT15-CF) GT15-CF(GT15-T5CG GT15-T5	Of Tiess GT1695 Of Tiess of Tiess GT166 DO Tiess of Tiess GT16 DO GT16 GT16 DO GT15 GT16 DO GT15 GT16 DO GT15 GT16	85	0.5 3.5 (Unit: mm) on factor) 0.5 1.5 (Unit: mm) 0.5 (Unit: mm)
	ther dovice © Option 11 3T15-CFU 3T15-CFU 3T15-CFU 3T15-S52 3T15-J71 3T15-J71 3T15-J71 3T15-J71 3T15-J72 3T15-J73	0.71865 0.7165 0.7166 0.7165 0.7176 0.7155 0.7165 0.7165 0.7176 0.7165 0.7165 0.7176 0.7165 0.7176 0.7165 0.7165 0.7165 0.7165 0.716	85	0.5 3.5 (Unit: mm) on factor) 0.5 1.5 (Unit: mm) 0.5 (Unit: mm)

5 COMPLIANCE WITH OVERSEAS STANDARDS 6 EQUIPMENT, SOFTWARE, AND MANUALS 7

1

GOT 2

SOFTWARE

CONNECTION CONFIGURATION

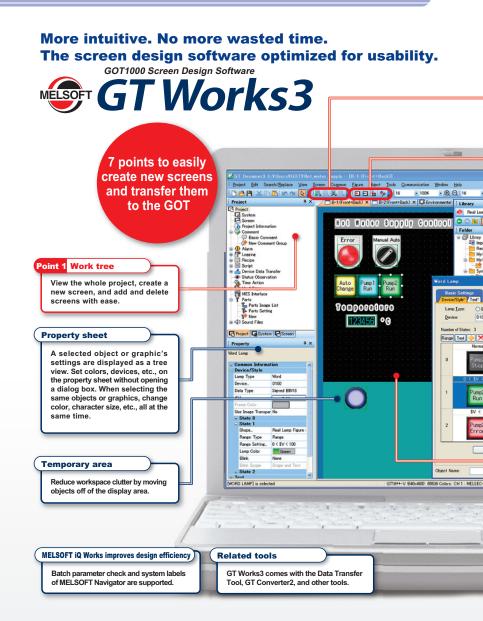
<u></u>	

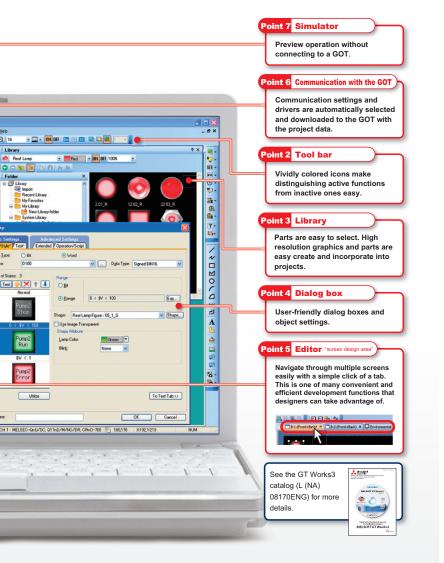
2. SOFTWARE

This chapter describes software required for using the GOT.

2.1	Product Lineup2	28
2.2	Specifications (Operating Environment)	80

2.1 Product Lineup





3

2.2 Specifications (Operating Environment)

MELSOFT GT Works3 (English version) operating environment

Item	Description							
Personal computer	PC/AT compatible machine on which the following OS operates							
OS	Morosoft [®] Windows [®] 2000 Professional Service Pack 4 or later (English, Simplified Chinese, Traditorial Chinese, Korean, Cerman versions) ¹⁷⁷⁴ Morosoft [®] Windows Visa [®] Diamises (English, Simplified Chinese, Traditorial Chinese, Korean, German versions) ¹⁷⁷⁴ Morosoft [®] Windows Visa [®] Diamises (English, Simplified Chinese, Traditorial Chinese, Korean, German versions) ¹⁷⁷⁴ Morosoft [®] Windows Visa [®] Diamises (English, Simplified Chinese, Traditorial Chinese, Korean, German versions) ¹⁷⁷⁴ Morosoft [®] Windows Visa [®] Diamises (English, Simplified Chinese, Traditorial Chinese, Korean, German versions) ¹⁷⁷⁴ Morosoft [®] Windows Visa [®] Diamises (English, Simplified Chinese, Traditorial Chinese, Korean, German versions) ¹⁷⁷⁴ Morosoft [®] Windows [®] 2 [®] Phone Editorial Chinese, Korean, German versions) ¹⁷⁷⁴ Morosoft [®] Windows [®] 2 [®] Professional Ecglish, Simplified Chinese, Traditorial Chinese, Korean, German versions) ¹⁷⁷⁴ Morosoft [®] Windows [®] 2 [®] Professional Ecglish, Simplified Chinese, Traditional Chinese, Korean, German versions) ¹⁷⁷⁴ Morosoft [®] Windows [®] 2 [®] Professional Ecglish, Simplified Chinese, Traditional Chinese, Korean, German versions) ¹⁷⁷⁴ Morosoft [®] Windows [®] 2 [®] Professional Ecglish, Simplified Chinese, Traditional Chinese, Korean, German versions) ¹⁷⁷⁴ Morosoft [®] Windows [®] 2 [®] Professional Ecglish, Simplified Chinese, Traditional Chinese, Korean, German versions) ¹⁷⁷⁴ Morosoft [®] Windows [®] 2 [®] Professional Ecglish, Simplified Chinese, Traditional Chinese, Korean, German versions) ¹⁷⁷⁴ Morosoft [®] Windows [®] 2 [®] Professional Ecglish, Simplified Chinese, Traditional Chinese, Korean, German versions) ¹⁷⁷⁴ Morosoft [®] Windows [®] 2 [®] Professional Ecglish, Simplified Chinese, Traditional Chinese, Korean, German versions) ¹⁷⁷⁴ Morosoft [®] Windows [®] 2 [®] Professional Ecglish, Simplified Chinese, Traditional Chinese, Korean, German versions) ¹⁷⁷⁴ Morosoft [®] Windows [®] 2 [®] Professional Ecglis							
	Microsoft [®] Windows [®] 7 Starter (English,	Simplified Chinese. Traditional Chine	se. Korean. German versions)"2"3"4					
CPU	1 GHz or more recommende							
Required memory	512 MB or more recommended	1 GB or more recommend	led					
Display	Resolution XGA (1024 × 768 dots)	or more						
Free hard disk space	For installation: 1.6GB or more recor For operation: 512MB or more recor	nmended nmended						
Display colors	High color (16 bits) or more Simulation on a PC requires the following software:							
	- 0X (Morla2 vession 1:12 M or later [®] or OX Simulator vencion 5.00 Ao ritatr [®] - The applicable software version of GX Works2 or CX Simulator varies depending on the PLC CPU to be all DEV CPU (A mode). ACPU, motion controller CPU (A series) OnACPU FX0 series, FX0N series, FX0S series, FX1 series, FX1N series, FX1N series, FX1S series, FX2 series, FX0S series, FX1 series, FX1 series, FX1N series, FX1N series, FX1S series, FX2 series, FX0S series, FX0S series, FX1 series, Simulator Series, FX1 serie	GX Simulator Version 5.00A or later Version5.40E or later	GX Works2 - Version 1.24A or later					
	QCPU (Q mode) (excl. Q00J, Q00 and Q01CPU) Q00JCPU, Q00CPU, Q01CPU	Version 6.00A or later						
Software	Q02PHCPU, Q06PHCPU	Version 7.20W or later	Version 1.12N or later					
	Q12PHCPU, Q25PHCPU	Version 6.10L or later						
	Q12PRHCPU, Q25PRHCPU	Version 6.20W or later						
	FX3uc series FX3u series ⁷	Version 7.08J or later	Version 1.24A or later					
	FX3g series'7	Version 7.22Y or later	1					
	Q00UJCPU, Q00UCPU, Q01UCPU, Q02UCPU, Q03UDCPU, Q04UDHCPU, Q06UDHCPU, Q10UDHCPU, Q13UDHCPU, Q20UDHCPU, Q26UDHCPU, Q03UDECPU, Q04UDEHCPU, Q06UDEHCPU, Q10UDEHCPU, Q13UDEHCPU, Q20UDEHCPU, Q28UDEHCPU	Version 7.23Z or later	Version 1.12N or later					
	LCPU		Version 1.24A or later					
	Q50UDEHCPU, Q100UDEHCPU	-	Version 1.30G or later					
Other	Mouse, keyboard, printer, CD-ROM drive, sound function (sound card)*8 and loudspeakers*8 used with the a	hove OS						

Applicable GOT GOT1000 Series^{'9}

Control State
 Control

S. Windows Z-F mode is no supported.
 Super St Simulator, GX Developer, GX Simulator, and GX Works2 for the same language.
 The GOT-A900 cannot be simulated.
 May be required when the simulation function is used.
 "9 The GTI0 cannot use the simulation function.

*10: Windows Touch features are not supported.

GT SoftGOT1000 (English version) operating environment

Item	Description							
nem	With DOS/V personal computer	With PC CPU module						
Personal computer	PC/AT compatible machine on which the following OS operates	CONTEC PC CPU unit (PPC-852-212, PPC-852-217, PPC-852-226)*7						
OS	Vordstr Vindows ² 2000 Professional Service Pack 4 or later (Ergle), Singleta Ohinea, Traditional Chrises, Koran, German versions) Vindows ² XP Professional Service Pack 2 or later (Ergle), Singleta Ohinea, Traditional Chrises, Koran, German versions) Vindows ² XP Intel Editors Pack 2 or later (Ergle), Singleta Ohinea, Traditional Chrises, Koran, German versions) Vindows ² Vindows ² XP Intel Editors Pack 2 or later (Ergle), Singleta Ohinea, Traditional Chrises, Koran, German versions) Vindows ² Vindows							
CPU	Recommended: 1GHz or more							
Required memory	Other than Microsoft [®] Windows Vista [®] , Microsoft [®] Win Microsoft [®] Windows Vista [®] , Microsoft [®] Windows [®] 7: 10							
Display	Resolution of VGA (640 x 480 dots) or more							
Free hard disk space ^{*1}	For installation: 1.6GB or more recommended For operation: 512MB or more recommended							
Display colors	High color (16 bits) or more							
Hardware ¹⁶ GT15-SGTKEY-U (License key (for USB port)) GT15-SGTKEY-P (License key (for parallel port)) GT15-SGTKEY-U (License key (for USB p								
When creating or editing project data :GT Designer3 ¹⁵ Software When using with PX Developer 'PX Developer Version 1.14Q or later GT Designer3 Version 1.01B or late								
Other	Mouse, keyboard, printer, CD-ROM drive, sound function	on (sound speaker), or speaker						

Specification

109 2

SOFTWARE

CONFIGURATION A FUNCTION

COMPLIANCE WITH OVERSEAS STANDARDS

6

EQUIPMENT, SOFTWARE, AND MANUALS

7

GLOSSARY

<u> </u>	

MEMO

3. FUNCTION

This chapter describes available functions for the GOT.

3.1	Functions
3.2	Precautions for Use
3.3	Overview of Each Function58

3. FUNCTION

3.1 Functions

Functions for each model

							: Available	e ∆: Part	iallv availa	ible -: Not	available
			-	a					Model		
Category		Function ^{*1}	Optional function board* ²	Extended/optional function OS installation *2	Other necessary devices*3	Details page	GT16	GT15	GT11	GT10	GT SoftGOT 1000
S S	Clock function				(Battery)	P.58	•	•	•	*12	•
tio are	Printer			Required	(Printer unit)	P.80	^{*20}	•	-	-	•
ica X	Video input/RGB inp	put/RGB output		Required	Video/ RGB unit	P.58	_ ^{*19}	^{*4}	-	-	
Hardware	USB mouse/keyboa	ard connection		Required	ROD unit		^{*20}	-			
Hardware	Backlight shutoff de					P.60		•	•	_ ^{*15}	
-			Required					-			
suc	Start from CF card		(GT15 only)		CF card	-	•	•	-	-	-
ctic	FA transparent func	tion					• ^{*21}	•	•*6	•	-
Main unit functions	Multi-channel functi	on	Required (GT15 only)			P.61	Up to 4ch	Up to 4ch	-	-	-
5	Gateway function			Required	(CF card)			••••••			
ain	MES interface funct	tion	Required	Required	(CF card)	P.62	^{*20}	•	-	-	
Σ	SoftGOT-GOT link f			Required		P.63	•	•	-	-	•
	Base screen, windo						•	•	•	•	•
	Dialog window displ						•	•	•	-	•
		BMP image display				P.64	٠	٠	•	•	•
	Graphic drawing	JPEG image display DXF data					•	•	•	-	•
		IGES data									
		(Japanese, Japanese (supporting									-
	Standard fonts (basic)	European languages), Chinese (Simplified), Chinese (Simplified, supporting European languages), Chinese (Traditional, supporting European languages))					•	•	•	•	•
	Standard fonts (optional)	Chinese (Simplified), Chinese (Traditional), Japanese		Required		P.65	•	٠	-	-	•
	High-quality font					1.00	•	•	•	٠	•
		TrueType font, TrueType font (7 segments)					•	•	•	•	•
	Windows [®] font	ginenis)					•	•	•	•	•
	Stroke basic font (e.	xtended)		Required		-		•			
	Stroke font (optional			Required			•	•	-	-	•
	Logo character fund	ction					٠	٠	٠	٠	٠
	Object superimposit	tion (layers)					•	•	•	-	•
	Station No. switchin					P.66	•	•	-		•
	Multilingual support Password	Tunction				- P.67	•	•	•	•	•
c	Startup logo					P.69	•	•	•		
sig	Data operation func	tion					•	•	•	•	•
de	Offset function					P.70	•	•	•	•	•
en		Security level authentication					•	•	•	٠	•
Screen design	Security function	Operator authentication		Required	(CF card/USB *16	P.73	•	•	-	-	•
õ	Lamp display				memory *16)		•	•	•	•	•
	Touch switch					P.72					
	Numeric display/inp	ut					•	•	•	•	•
	Data list display					P.73	•	•	•	-	•
	ASCII display/input						•	•	•	•	•
	Kana-Kanji conversion function	Normal version Enhanced version		Required Required		-	•	•	-	-	•
	Clock display	Enhanced version		Required		P.73			•	•	
	Comment display					P.74	•	•	•	•	•
	Extended alarm mo	nitoring/display			(CF card) (Battery)	-	٠	٠	-	-	•
	Alarm display				(OE anad)	P.75	•	•	•	′	•
	Alarm history displa Scrolling alarm disp				(CF card)		•	•	•	•	•
	Parts display	wy			(CF card)		•	•		•	
	Parts movement				(CF card)	P.76	•	•	•		•
	Panel meter display						•	•	•	٠	•
	Level display						٠	•	٠	-	٠
	Trend graph/Line gr Statistical graph			Descripted ¹⁵	(CF card)	P.77	•	•	•	•	•
	Historical trend grap Scatter graph	- 10		Required ^{*5}	(OF Calu)		•	•	•		
	Status observation f	function				P.78	•	•	•	•	•
	Advanced recipe fu			Required	(CF card)	P.79	•	•	-	-	•
	Recipe function			Required	(CF card)	1.70	٠	٠	٠	•	٠
											_

Object Function ¹¹ Object								: Availab	le 🛆: Parl		able -: Not	available
Report function File saving in CF card Pequired Printing on printer Required Pequired				-	al					Model		
Reput function Required (CF card) Prob - <	Category		Function ^{*1}	Optional functior board*2	Extended/option function OS installation *1*2	Other necessary devices* ³	Details page	GT16	GT15	GT11	GT10	SoftGOT
Hard copy function Printing on printer Required (Printer unit) PR0 20		Report function			Required		P.80	^{*20}	٠	-	-	•
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		11	File saving in CF card			CF card		٠	•	-	-	•
Barcode function Required Required License input mathematical and the second secon		Hard copy function	Printing on printer		Required	(Printer unit)	P.80	^{*20}	•			•
Remote personal computer operation (Ethernet)RequiredLicense input unit A^{-19} <th< td=""><td></td><td>Barcode function</td><td></td><td></td><td>Required</td><td></td><td>P.82</td><td>^{*20}</td><td>•</td><td>_^{*10}</td><td>•</td><td>-</td></th<>		Barcode function			Required		P.82	^{*20}	•	_ ^{*10}	•	-
Remote personal computer operation (Serial) Required Video/RCB P33 ~10 ~ ~ FID function Required Personal computer operation (Serial) Required P81 ~20 ~ ~ ~ Multimedia function Required Multimedia function Required P81 ~20 ~ ~ ~ Operation panel function Required Required CF card P81 ~20 ~ ~ ~ ~ Operation panel function Required Required CF card P85 • ~ ~ • <td></td> <td>Remote personal co</td> <td>mputer operation (Ethernet)</td> <td></td> <td>Required</td> <td>License</td> <td></td> <td>*19</td> <td>-</td> <td></td> <td></td> <td>-</td>		Remote personal co	mputer operation (Ethernet)		Required	License		*19	-			-
RFID function Required PR A ²⁰ A ⁴⁰ - Operation part function Required Multimedia function P81 A ²⁰ - - - Operation part function Required Multimedia function Required External I/O P81 A ²⁰ - - - Operation log function Required CF card P85 • • - • • Document display function Required CF card P84 • • - • • Log viewer function Required CF card P84 • • - •						Video/RGB	P.83		^*4	-	-	-
Multimedia function Required Multimedia function P82 A*19 - <th< td=""><td>-</td><td></td><td>···· ··· ··· ··· · · · · · · · · · · ·</td><td></td><td></td><td>input unit</td><td>P.81</td><td></td><td></td><td>_*10</td><td>-</td><td>-</td></th<>	-		···· ··· ··· ··· · · · · · · · · · · ·			input unit	P.81			_*10	-	-
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	esigr								-		-	-
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	en d	Operation panel fun	ction		Required		P.81	_ ^{*20}	٠	-	-	•
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	ē	Operation log functi	on		Required		P.85			-		•
$\begin{tabular}{ c c c c c c } \hline log viewer function & Required & CF card & USB memory \\ \hline Log viewer function & Required & CF card & USB memory \\ \hline log viewer function & Required & CF card & USB memory \\ \hline Script function & Required & CF card & CF car$	S	Document display fu	unction		Required	CF card	P.84	•	•	-	-	•
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		Logging function	Logging function		Required		D.00	٠	٠	-	-	•
Script function Screen script Part Device data transfer function Required Part System monitor function Required Part Device data transfer function Required Part System monitor function Required Part Device monitor function Required Part List editor for A Required Part Ladder monitor function (GT15 only) Required Intelligent unit monitor function Required CF card Intelligent unit monitor function Required Part Metwork monitor function Required CF card Servo amplifier monitor function Required CF		Log viewer function			Required		F.00	٠	-	-	-	-
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$			Project script				P.87	٠	•	•	-	٠
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		Script function						•	٠	٠	-	•
System monitor function Required • <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>•</td><td>-</td><td></td><td>•</td></th<>									•	-		•
Device monitor function Required P.88 - <												-
List editor for A Required P38 A A ⁺¹³ - - List editor for FX Required Required Required Required A ⁺¹³ - - - Ladder monitor function Required (GT15 only) Required (CF card) P.88 Image: CF card card P.89 Image: CF card card P.89 Image: CF card card Image: CF card card P.89 Image: CF card card P.89 Image: CF card card P.89 Image: CF card card P.90 Image: CF card card Image: CF card card P.90 Image: CF card card P.90 Image: CF card card P.90 Image: CF card card P.91 Image: CF card card P.91 Image: CF card card Image: CF card card Image: CF card card card Image: CF card card card card card card card card								•	•	•		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			tion				P 88	-	-	-	-	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$							1.00	٠	•			-
Ladder monitor function (GT is only) (GT is only) Required (Required (GT is only) C.P. card) Required P.89 Image: Constraint of the constr		List editor for FX			Required			٠	•	*14	*15	-
Backup/restoration function (GT15 only) Required (GT15 only) CP card Required P39 •		Ladder monitor fund	tion	(GT15 only)	Required	(CF card)		٠	_*9	-	-	-
Instruction Required CF card/ USB memory ¹⁶ P91 Image: CF card/ ISB memory ¹⁶ P91 Backup/restoration function Required CF card/ USB memory ¹⁶ P91 Image: CF card/ ISB memory ¹⁶ Image: CF card/ USB memory ¹⁶ Image: CF card/ Image: CF card/ USB memory ¹⁶ Image: CF card/ Image: CF card/ USB memory ¹⁶ Image: CF card/ Image: CF card/ Image	suc	Ladder editor function	on		Required	CF card	P.89	٠		-	-	-
Instruction Required CF card/ USB memory ¹⁶ P91 Image: CF card/ ISB memory ¹⁶ P91 Backup/restoration function Required CF card/ USB memory ¹⁶ P91 Image: CF card/ ISB memory ¹⁶ Image: CF card/ USB memory ¹⁶ Image: CF card/ Image: CF card/ USB memory ¹⁶ Image: CF card/ Image: CF card/ USB memory ¹⁶ Image: CF card/ Image: CF card/ Image	÷	Intelligent unit monit	tor function		Required			٠	_*9	-		-
Instruction Required CF card/ USB memory ¹⁶ P91 Image: CF card/ ISB memory ¹⁶ P91 Backup/restoration function Required CF card/ USB memory ¹⁶ P91 Image: CF card/ ISB memory ¹⁶ Image: CF card/ USB memory ¹⁶ Image: CF card/ Image: CF card/ USB memory ¹⁶ Image: CF card/ Image: CF card/ USB memory ¹⁶ Image: CF card/ Image: CF card/ Image	Ę						1	•	•	-	-	-
Instruction Required CF card/ USB memory ¹⁶ P91 Image: CF card/ ISB memory ¹⁶ P91 Backup/restoration function Required CF card/ USB memory ¹⁶ P91 Image: CF card/ ISB memory ¹⁶ Image: CF card/ USB memory ¹⁶ Image: CF card/ Image: CF card/ USB memory ¹⁶ Image: CF card/ Image: CF card/ USB memory ¹⁶ Image: CF card/ Image: CF card/ Image	Ę									-		-
Instruction Required CF card/ USB memory ¹⁶ P91 Image: CF card/ ISB memory ¹⁶ P91 Backup/restoration function Required CF card/ USB memory ¹⁶ P91 Image: CF card/ ISB memory ¹⁶ Image: CF card/ USB memory ¹⁶ Image: CF card/ Image: CF card/ USB memory ¹⁶ Image: CF card/ Image: CF card/ USB memory ¹⁶ Image: CF card/ Image: CF card/ Image	ğ						P.90					
Instruction Required CF card/ USB memory ¹⁶ P91 Image: CF card/ ISB memory ¹⁶ P91 Backup/restoration function Required CF card/ USB memory ¹⁶ P91 Image: CF card/ ISB memory ¹⁶ Image: CF card/ USB memory ¹⁶ Image: CF card/ Image: CF card/ USB memory ¹⁶ Image: CF card/ Image: CF card/ USB memory ¹⁶ Image: CF card/ Image: CF card/ Image	Jar	CNC monitor function	n		Required			*18	*8	-	-	-
Instruction Required CF card/ USB memory ¹⁶ P91 Image: CF card/ ISB memory ¹⁶ P91 Backup/restoration function Required CF card/ USB memory ¹⁶ P91 Image: CF card/ ISB memory ¹⁶ Image: CF card/ USB memory ¹⁶ Image: CF card/ Image: CF card/ USB memory ¹⁶ Image: CF card/ Image: CF card/ USB memory ¹⁶ Image: CF card/ Image: CF card/ Image	inter	SFC monitor function	SFC monitor function		Required	CF card		٠	^*9	-	-	-
CNC data input/output function Required USB memory 16 USB	Ma	Motion SFC monitor	Motion SFC monitor function		Required		DOA	-	_*9	-	-	-
Backup/restoration function Required USB memory ¹⁶ Image: Constraint of the second secon		CNC data input/outp	out function		Required	USB memory*16	P.91	△*18	_* 8	-	-	-
MELSEC-L troubleshooting function Required Page		Backup/restoration	function		Required			٠	٠	-	-	-
		MELSEC-L troubles	hooting function		Required		D02	٠	-	-	-	-
				İ		Battery	P.92		۲	-	-	-

*1: Function contents, such as the number of setting points and data storage location, vary depending on the model *2:

Followin Contents, such as the number of setting points and vala storage bocaum, var) veperioning of the incone. The option function board is required depending on the function version or hardware version of GOT main unit. In addition, the option function board to be used differs depending on the function. For the details, refer to "3.2 Prevalutions for Use". For GT10 and GT softGOT1000, an option function board and the installation of the extended function OS and option OS are not required

"Other devices" refers to necessary options or option units other than the option function board. *3: The devices in parent beseasery oppoints on oppoint und other than the option fun The devices in parentheses are necessary depending on the purpose of operation. For details, refer to "3.2 Precautions for Use".
4: Available only for GT1585V and GT1575V.

*5: The logging function must be set before the historical trend graph is used. The option OS (logging) must be installed.

*6: *7: There are structural restrictions for GT115 HS-Q BD. Only the user alarm is available.

*8: Only GT1595-XTB , GT1585(V)-STB and GT1575(V)-STB are available.

*9: Only GT1595-XTB, GT1585(V)-STB, GT1575(V)-STB, GT1575-VTB, GT157-VNB, GT1565-VTB, GT1562-VNB and GT1555-VTBD are available

*10: Only GT115 -Q BD, GT115 -Q BD are available

*11: Up to two channels for GT155

*12:Only GT105, GT104, and GT1030 are available.

*13: Only GT115 -Q BDA is available.

*14: Only GT115 -Q BD and GT155 HS-Q BD are available

*15: Only GT105 is available. *16: The USB memory is only available for GT16.

To: the USB memory is only available for G10. T1: Only GT1695A/TED_GT1685(V)-STB_, GT1675(V)-STB_, GT1575-VTB_, GT157__-VNB_, GT1665-VTB_, and GT1562-VNB_ are available. T1: Only GT1695M-XTB_, GT1685M-STB_, GT1675M-STB_, and GT1665M-STB_TB_ are available. T1: Only GT1695M-XTB_, GT1685M-STB_, GT1675M-STB_, GT1675M-VTB_, GT1655M-STB_, and GT1665M-VTB_, and GT1665M-VTB_, and GT1665M-VTB_, and GT1665M-VTB_, and GT1665M-VTB_, and GT1665M-VTB_, and GT165M-VTB_, and GT165M-VTB_, GT1675M-VTB_, GT1675M-VTB_, GT1675M-VTB_, GT1675M-VTB_, GT1655M-VTB_, GT1655M-VTB_, and GT1666_-VTB_ are available. *21: There are structural restrictions for GT1665HS-VTBD.

*22: Only GT115 -Q BD is available.

*23: Only GT1695M-XTB and GT1685M-STB are available

*24: Only GT1595-XTB , and GT1585(V)-STB are available

FUNCTION 4

GOT 2

SOFTWARE

3

CONNECTION CONFIGURATION 5

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3.2 Precautions for Use

Selecting option function board and CF card

(1) When using option functions or extended functions

To use each function, extended function OS, or option OS and option function board is required. For installing the extended function OS or option OS on the GOT, make sure that the user area of the specified drive has enough free space for the OS memory space shown on the next page. For details of data transfer, refer to the following.

GT Designer3 Version1 Screen Design Manual (Fundamentals)

The following shows the option function boards applicable to each GOT.

GOT	Option function board
GT16	GT16-MESB ^{*1}
GT15	GT15-FNB, GT15-QFNB, GT15-QFNB16M, GT15-QFNB32M, GT15-QFNB48M, GT15-MESB48M
GT11	GT11-50FNB
GT10	Not required

*1: Not available for GT16 Handy.

An option function board (GT15-FNB or GT11-50FNB) is built in the following GOTs.

GOT	Model	Description ^{*1}
GT15	All models	
	GT1155-QTBDQ, GT1155-QTBDA, GT1155-QSBDQ, GT1155-QSBDA, GT1150-QLBDQ, GT1150-QLBDA	Function version D or later
GT11	GT1155-QTBD	Hardware Version A or later
	GT1155HS-QSBD, GT1150HS-QLBD	Hardware Version B or later
	GT1155-QSBD, GT1150-QLBD	Hardware Version C or later

 * 1: For how to confirm the function version or hardware version, refer to the following.

C User's Manual for the GOT used

When using the above GOTs, the option functions operated with the GT15-FNB or GT11-50FNB can be used without installing any additional option function board.

For using functions operated with the GT16-MESB, GT15-QFNB(□M), or GT15-MESB48M, and for adding more memory to the GT15, install an applicable option function board. For the necessary option function board for each option function, refer to the following manual. [□] GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3 An additional option function board can be installed on the GOT with a built-in option function board. (However, an option function board inapplicable to the GOT, such as a GT15 option function board to the GT16, cannot be used.)

For GT16

(a) Extended function OS

 $\bigcirc:$ Required (Either one) $\times:$ Unusable

		OS memory space (user area)*1		Option function board
Function name	Extended function OS name	a Built-in flash		
i anotori namo	Excelled landlon of hand		· ·	GT16-MESB ^{*4}
	Bar code	memory (ROM) 50KB	(RAM) 84KB	Not required
Barcode*4				Not required
RFID*4	RFID	50KB	166KB	Not required
System monitor	System monitor	450KB	692KB	Not required
	Report	150KB	235KB	Not required
Report ^{*4}	Printer (PictBridge)	552KB	1104KB	Not required
	Printer (Serial)	80KB	200KB	Not required
	Stroke Font Support Data	300 KB	400 KB	Not required
	Stroke Standard Font(JPN)	2160KB	2160KB	Not required
Stroke font*2	Stroke Standard Font(JPN)(supporting Hangul)	3175KB	3175KB	Not required
	Stroke Standard Font(China GB)	1474KB	1474KB	Not required
	Stroke Standard Font (China GB)(supporting Hangul)	2016KB	2016KB	Not required
Video display*4*5				
RGB display*4*5	Video/RGB	298KB	480KB	Not required
Multimedia ^{*4*5}	Multimedia	292KB	1074KB	Not required
Remote personal computer	Video/RGB	298KB	480KB	Not required
operation (serial)*4*5	PC Remote Operation (serial)	50KB	84KB	Not required
Remote personal computer operation (Ethernet)*4*5	PC Remote Operation (Ethernet)	860KB	5130KB	Not required
Backup/restore	Backup/Restore	420KB	766KB	Not required
Operator Authentication	Operator authentication	460KB	730KB	Not required
MELSEC-L Troubleshooting	MELSEC-L Troubleshooting Function	340KB	770KB	Not required
SoftGOT-GOT link function	SoftGOT-GOT Link Function	100KB	200KB	Not required
Log viewer	Log viewer	1434KB	3882KB	Not required
Sound Output ^{*4}	Sound Output	100KB	200KB	Not required
External I/O / Operation Panel*4	External I/O / Operation Panel	70KB	100KB	Not required
*2 *4	CNC Data I/O	210KB	383KB	Not required
CNC data I/O*3*4	GOT Platform Library	77KB	200KB	Not required
Davida a data tana fan			1001/0	Netropuised
Device data transfer	Device Data Transfer	50KB	100KB	Not required

*1 The OS memory space differs between the built-in flash memory (ROM) and the user memory (RAM). When writing data, including the OS, communication drivers, and project data, from the built-in flash memory (ROM) to the user memory (RAM), the OS memory space increases. Make sure that the total data size does not exceed the user memory (RAM) capacity.

*2 For using fonts, install option fonts if necessary. For how to use fonts and the setting method, refer to the following manual. (For a for the following manual).

*3 Applicable to the GT1695M-X, GT1685M-S, GT1675M-S and GT1665M-S only.

- *4 Not applicable to GT16 Handy.
- *5 Applicable to the GT1695M-X, GT1685M-S, GT1675M-V, GT1675M-S, GT1665M-V and GT1665M-S only.

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(b) Option OS

○: Required (Either one) ×: Unusable

		OS memory spa	Option function boar		
Function name	Option OS name	b Built-in flash	B User memory	GT16-MESB ^{*6}	
		memory (ROM)	(RAM)		
Maintenance timing setting	Not required	-	-	Not required	
Multi-channel	Not required	-	-	Not required	
	Standard Font (China GB)	1280KB	1280KB	Not required	
	Standard Font (China Big5)	1920KB	1920KB	Not required	
KANJI regions	Standard Font (Japanese)	1280KB	1280KB	Not required	
	Stroke Font (JPN)	1037KB	1037KB	Not required	
	Stroke Font (China GB5)	1248KB	1248KB	Not required	
	Stroke Font (China Big5)	1680KB	1680KB	Not required	
Operation log	Operation Log	384KB	1221KB	Not required	
	Device name converter	400KB	800KB	Not required	
Document display	Document Display	150KB	3072KB	Not required	
Kana-kanji conversion (enhanced version)	KANA KANJI(JPN) (Enhanced Version)	1242KB	2774KB	Not required	
Historical Trend Graph	Not required	-	-	Not required	
Logging	Logging	380KB	710KB	Not required	
Recipe	Recipe	70KB	100KB	Not required	
•					
Advanced Recipe	Advanced Recipe	310KB	1187KB	Not required	
Object Script	Object Script	180KB	360KB	Not required	
	Ladder monitor for MELSEC-A	342KB	674KB	Not required	
Ladder monitor	Ladder monitor for MELSEC-FX	342KB	674KB	Not required	
	Ladder monitor for MELSEC-Q/L/QnA	590KB	4170KB	Not required	
	GOT Platform Library	77KB	200KB	Not required	
Ladder editor*2	Ladder editor	2567KB	8192KB	Not required	
	GOT Function Expansion Library	4729KB	19381KB	Not required	
A list editor	List editor for MELSEC-A	542KB	1024KB	Not required	
FX list editor	List editor for MELSEC-FX	542KB	1024KB	Not required	
Intelligent module monitor	Intelligent module monitor	390KB	770KB	Not required	
Network monitor	Network monitor	210KB	370KB	Not required	
Q motion monitor	Q motion monitor	210KB 390KB	770KB		
			-	Not required	
Servo amplifier monitor	Servo amplifier monitor	390KB	770KB	Not required	
CNC monitor*3 *6	CNC monitor	390KB	770KB	Not required	
	GOT Platform Library	77KB	200KB	Not required	
SFC monitor ^{*4 *6}	SFC monitor	442KB	2108KB	Not required	
	GOT Function Expansion Library	4729KB	19381KB	Not required	
	GOT Platform Library	77KB	200KB	Not required	
Motion SFC monitor ^{*5}	Motion SFC monitor	1240KB	12522KB	Not required	
	Gateway (Server, Client)	50KB	100KB	Not required	
Gateway	Gateway (Mail)	50KB	100KB	Not required	
	Gateway (FTP)	50KB	84KB	Not required	
MES interface*6	MES Interface	1598KB	13461KB	0	

*1 The OS memory space differs between the built-in flash memory (ROM) and the user memory (RAM). When writing data, including the OS, communication drivers, and project data, from the built-in flash memory (ROM) to the user memory (RAM), the OS memory space increases. Make sure that the total data size does not exceed the user memory (RAM) capacity.

*2 For using the ladder editor function, install all the OSs of [GOT Platform Library], [Ladder editor], and [GOT Function Expansion Library] on the GOT.

- *3 Applicable to the GT1695M-X, GT1685M-S, GT1675M-S, and GT1665M-S only.
- *4 For using the SFC monitor function, install all the OSs of [GOT Platform Library], [SFC monitor], and [GOT Function Expansion Library] on the GOT.
- *5 For using the motion SFC monitor function install all the OSs of [GOT Platform Library], [Motion SFC monitor], and [GOT Function Expansion Library] on the GOT.
- *6 Not applicable to GT16 Handy.

For GT15

(a) Extended function OS

			С	: Required (Either	one) ×: Unusable
		A	(Option function boar	d
Function name	Extended function OS	OS memory space (user area)	GT15-FNB	GT15-QFNB GT15-QFNB M	GT15-MESB48M
Barcode	Bar code	84KB		Not required	
RFID	RFID	166KB		Not required	
System monitor	System monitor	746KB		Not required	
	Report	235KB		Not required	
Report ^{*4}	Printer (PictBridge)	1104KB		Not required	
	Printer (Serial)	200KB		Not required	
	Stroke Font Support Data	400 KB		Not required	
	Stroke Standard Font(JPN)	2160KB		Not required	
Stroke font*1	Stroke Standard Font (JPN)(supporting Hangul)	3175KB	Not required		
Stroke font	Stroke Standard Font (China GB)	1474KB	Not required		
	Stroke Standard Font(China GB)(supporting Hangul)	2016KB	Not required		
Video display ^{*2} RGB display ^{*2}	Video/RGB	512KB		Not required	
Remote personal computer	Video/RGB	512KB		Not required	
operation*2	PC Remote Operation	84KB		Not required	
Backup/restore	Backup/Restore	820KB		Not required	
Operator Authentication	Operator authentication	784KB		Not required	
Sound Output	Sound Output	200KB		Not required	
External I/O / Operation Panel	External I/O / Operation Panel	100KB		Not required	
010.1.1.10*3	CNC Data I/O	437KB		Not required	
CNC data I/O*3	GOT Platform Library	100KB	Not required		
Device data transfer	Device Data Transfer	100KB		Not required	
SoftGOT-GOT link function	SoftGOT-GOT Link Function	200KB		Not required	

*1 For using fonts, install option fonts if necessary.

For how to use fonts and the setting method, refer to the following manual.

- GT Designer3 Version1 Screen Design Manual (Fundamentals)
- *2 Applicable to the GT1585V-S and GT1575V-S only.
- *3 Applicable to the GT1595-X, GT1585V-S, GT1585-S, GT1575V-S, and GT1575-S only.
- *4 For using the motion SFC monitor, install all the OSs of [GOT Platform Library] and [Motion SFC monitor] on the GOT.

For using the motion SFC monitor function, a capacity of 2577KB or more is required in the user area of the specified drive for installing the extended function OS and option OS.

A total memory capacity of 12622KB is required for using the motion SFC monitor function. Therefore, to use the motion SFC monitor function, mount an option function board with 16MB or more memory on the GOT.

3

(b) Option OS

 \bigcirc : Required (Either one) \times : Unusable

				: Required (Either	
		B		Option function boar	d
Function name	Option OS name	OS memory space (user area)	GT15-FNB	GT15-QFNB GT15-QFNB M	GT15-MESB48M
Maintenance timing setting	Not required	-	0	0	0
Multi-channel	Not required	-	×	0	0
	Standard Font (China GB)	1280KB	0	0	0
	Standard Font (China Big5)	1920KB	0	0	0
	Standard Font (Japanese)	1280KB	0	0	0
KANJI regions	Stroke Font (JPN)	1037KB	0	0	0
	Stroke Font (China GB5)	1248KB	0	0	0
	Stroke Font (China Big5)	1680KB	0	0	0
Operation log	Operation Log	1218KB	0	0	0
operation log	Device name converter	800KB	0	0	0
Document display	Document Display	2048KB	×	0	0
Kana-kanji conversion ^{*10}	KANA KANJI(JPN)*10	1223KB	0	0	0
Kana-kanji conversion (enhanced version) ^{*10}	KANA KANJI(JPN) (Enhanced Version) ^{*10}	1274KB	0	0	0
Historical Trend Graph	Not required	-	0	0	0
Logging	Logging	740KB	0	0	0
		100KB			
Recipe	Recipe	1241KB	0	0	0
Advanced Recipe Object Script	Advanced Recipe Object Script	360KB	0	0	0
Object Script			0	0	0
	Ladder monitor for MELSEC-A	523KB	0	0	0
Ladder monitor*2	Ladder monitor for MELSEC-FX	592KB	0	0	0
	Ladder monitor for MELSEC-Q/L/QnA	1082KB	×	0	0
	GOT Platform Library	100KB		Not required	1
*2 *3 *4	Ladder editor	5121KB	×	0	0
Ladder editor ^{*2 *3 *4}	GOT Function Expansion Library	4729KB	×	0	0
A list editor	List editor for MELSEC-A	1058KB	0	0	0
FX list editor	List editor for MELSEC-FX	1058KB	0	0	0
Intelligent module monitor*1	Intelligent module monitor	384KB	0	0	0
Network monitor	Network monitor	324KB	0	0	0
Q motion monitor	Q motion monitor	607KB			
			0	0	0
Servo amplifier monitor	Servo amplifier monitor	524KB	0	0	0
CNC monitor*5	CNC monitor	588KB	0	0	0
	GOT Platform Library	100KB		Not required	1
SFC monitor*1 *6 *7	SFC monitor	1373KB	×	0	0
	GOT Function Expansion Library	4729KB	×	0	0
	GOT Platform Library	100KB		Not required	1
Motion SFC monitor ^{*1*9}	Motion SFC monitor	2477KB	×	0	0
	Gateway (Server, Client)	100KB	0	0	0
Gateway	Gateway (Mail)	100KB	0	0	0
Galeway	Gateway (Mail)	64KB			
*9			0	0	0
MES interface ^{*8}	MES Interface	3196KB	×	×	0

GOT

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- *1 Inapplicable to the GT1555-Q and GT1550-Q.
- *2 Inapplicable to the GT1555-V, GT1555-Q, and GT1550-Q.
- *3 For using the ladder editor function, install all the OSs of [GOT Platform Library], [Ladder editor], and [GOT Function Expansion Library] on the GOT.
- *4 For using the ladder editor function, a capacity of 9950KB or more is required in the user area of the specified drive, for installing the extended function OS and option OS. A total memory capacity of 21212KB is required for using the ladder editor function. Therefore, to use the ladder editor function, set the OS boot drive to "A: Standard CF Card" and mount an option function board with 16MB or more memory on the GOT.
- *5 Applicable to the GT1595-X, GT1585V-S, GT1585-S, GT1575V-S, and GT1575-S only.
- *6 For using the SFC monitor function, install all the OSs of [GOT Platform Library], [SFC monitor], and [GOT Function Expansion Library] on the GOT.
- *7 For using the SFC monitor function, a capacity of 6202KB or more is required in the user area of the specified drive for installing the extended function OS and option OS.

A total memory capacity of 14393KB is required for using the SFC monitor function.

Therefore, the following settings are required depending on the GOT to be used.

GOT	Required setting
GT1575-VN,GT1572-VN, GT1562-VN	Setting the OS boot drive to [A: Standard CF Card] Memory expansion (Installing an option function board with add-on memory)
Other than the above	Memory expansion (Installing an option function board with add-on memory)

For setting the OS boot drive, refer to the following.

GT Designer3 Version1 Screen Design Manual (Fundamentals)

- *8 A capacity of 8218KB in the add-on memory (48MB) of the GT15-MESB48M is used for the MES interface function operation.
- *9 For using the motion SFC monitor function, a capacity of 2577KB or more is required in the user area of the specified drive, for installing the extended function OS and option OS.

A total memory capacity of 12622KB is required for using the motion SFC monitor function.

Therefore, to use the motion SFC monitor function, mount an option function board with 16MB or more memory on the GOT.

*10 This function is dedicated to Japanese version.

For GT11

○: Required ×: Disabled

				O. Required X. Disabled
Function name		Extended function OS/Option OS	OS capacity	Option function board
		Extended function OS/Option OS	(User area)	GT11-50FNB
Enternalised	Bar code	Bar code		Not required
Extended function	RFID	RFID]	Not required
	System monitor	System monitor		Not required
	Recipe	Recipe	0KB	0
Optional function	A list editor*1	List editor for MELSEC-A		0
	FX list editor ^{*2}	List editor for MELSEC-FX		0

*1 Not available for GT1155-QTBDQ, GT1155-QSBDQ and GT1150-QLBDQ.

*2 Not available for GT1155-QTBDQ, GT1155-QTBDA, GT1155-QSBDQ, GT1155-QSBDA, GT1150-QLBDQ and GT1150-QLBDA.

For GT10

	Function name	Extended function OS/Option OS	OS capacity (User area)	Option function board		
	Bar code	Not required	-	Not required		
Optional function	Recipe	Not required	-	Not required		
Tuncuon	FX list editor *1	Not required	-	Not required		

Inapplicable to the GT1030 and GT1020.

(2) Selecting by user area size (drive space required for data transfer)

The GOT operates by expanding the OS or Project data stored in the built-in flash memory (ROM) to the user memory (RAM).

For the GT16, since a part of the data is compressed to be stored in the built-in flash memory (ROM), the data size becomes larger when it is expanded to the user memory (RAM). Boot OS, Standard monitor OS, Communication driver, Extended function OS, Option OS, Special data, Project data and other data resides on the system area and user area of the drive specified by the GOT.

Regarding Boot OS, Standard monitor OS and first communication driver on the GT15 that reside on the system area of the C drive, it is not necessary to check the data capacity before installation.

However, when the GT16 or GT15 is used, for extended function OS, option function, communication driver (the second or later communication driver for the GT15) and project data that reside on the user area, data will not be transferred if there is insufficient space on the target drive.

When performing data transfer (OS installation, project data download), confirm the amount of space available on the specified drive's user area and the amount of data to be transferred.

	User area size			
	Transfer destination	User area size		Remarks
	Drive C (C: Built-in Flash memory)	GT1695M-X, GT1685M-S GT1675M-S, GT1675M-V GT1665M-S, GT1665M-V GT16 Handy	15MB	The total memory size of Extended function OS, Option OS, Special data, and Communication driver must be
		GT1675-VN, GT1672-VN, GT1662-VN	11MB	smaller than the user area capacity. Download (store) the Project data to Drive A (A: Standard
ст 16	Drive A (A: Standard CF Card)	Check the CF Card capacity.		CF Card) or Drive B (B: Extended Memory Card) if user area does not have enough space for Project data, Extended function OS, Option OS, Special data,
	Drive B (B: Extended Memory	Check the CF Card capacity.		Communication driver, and buffering. (Refer to 3.2. Point)
	Drive E (E: USB memory)	Check the USB memory capacity.		
	Drive C (C: Built-in Flash memory)	GT1595-X, GT1585V-S GT1585-S, GT1575V-S GT1575-V, GT1565-V GT1555-V, GT1555-Q, GT1550-Q GT1575-VN, GT1572-VN	9MB 5MB	The total memory size of Extended function OS, Option OS, Special data, and the second or later Communication driver must be smaller than the user area capacity. An option function board with add-on memory is
ст 15	Drive A (A: Standard CF Card)	GT1562-VN Check the memory size of	-	necessary if user area does not have enough space for Project data, Extended function OS, Option OS, Special data, Communication driver, and buffering.
	Drive B (B: Extended Memory Card)	Check the memory size of CF card.		(Refer to 3.2. Point)
С ст 1 1	Drive C (C: Built-in Flash memory)	змв		The project data size is up to 3MB.
	Drive C (C: Built-in Flash memory)	GT105	3MB	The project data size is a maximum of 3MB.
٥	Drive C (C: Built-in Flash memory)	GT104	3MB	The project data size is a maximum of 3MB.
ст 10	Drive C (C: Built-in Flash memory)	GT1030	1.5MB	The project data size is up to 1.5MB.
	Drive C (C: Built-in Flash memory)	GT1020	512KB	The project data size is up to 512KB.

User area size

Each type of data is grouped and shown as (a), (b), (A),

Apply the corresponding size when calculating the data size with the following expressions or flow charts.

Data type (GT16)	Data type (GT15)
a Extended function OS stored in the ROM	A Extended function OS
Doption OS stored in the ROM	B Option OS
A Extended function OS expanded to the RAM	C Second or later communication driver
B Option OS expanded to the RAM	D Special data
Communication driver	Project
D Special data	Buffering area
E Project	
F Buffering area	
a, AData size of extended functions	-

For the data size of the extended function OS, refer to section 3.2 (1).

(b), **(B)** Data size of optional functions

For the data size of the option OS, refer to section 3.2 (1).

Communication driver data size

For GT16

		User area capacity
	Bus (Q)	180KB
	A/QnA/L/Q CPU, LJ71C24, QJ71C24	180KB
	MELSEC-FX	180KB
	MELSECNET/H	200KB
	CC-Link IE Controller	200KB
ст 16	JTEKT TOYOPUC-PC	160KB
	Ethernet (YASKAWA)	160KB
	Computer	230KB
	Ethernet (MICROCOMPUTER)	230KB
	Communication driver other than the above	150KB

For GT15

Communication drivers use 150 KB each.

Buffering area size (data size)

Refer to the following manual for the data size of the buffering area size.

GT Designer3 Version1 Screen Design Manual (Functions)

(a) Newly transferring data to the GOT

Check whether the following expression is satisfied or not.

Refer to the following section for the project data size

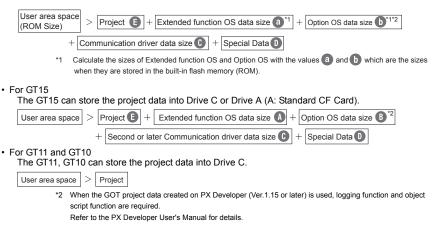
GT Designer3 Version1 Screen Design Manual (Fundamentals)

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1

• For GT16

The GT16 can store the project data into Drive C or Drive A (A: Standard CF Card).



7

GLOSSARY





ст**16**

(1) When free space of transfer destination drive is sufficient but the insufficient space message appears

Select [Write after deleting all contents in the project folder] to write all project data.

When it is necessary to back up the project data, read it to a personal computer, CF card, or memory card before writing the project data.

(2) Memory for storage (ROM) and memory for operation (RAM)

For GT16

 The GT16 operates by expanding the OS or project data stored in the memory for storage (ROM) to the memory for operation (RAM).

The capacity of the memory for storage (ROM) and the memory for operation (RAM) differs according to the GOT.

GOT	Memory	Capacity
GT1695M-X, GT1685M-S, GT1675M-S, GT1675M-V,	Memory for storage (ROM) (Built-in flash memory, included as standard)	15MB
GT1665M-S, GT1665M-V, GT16 Handy	Memory for operation (RAM) (User memory, included as standard)	57MB
GT1675-VN, GT1672-VN,	Memory for storage (ROM) (Built-in flash memory, included as standard)	11MB
GT1662-VN	Memory for operation (RAM) (User memory, included as standard)	53MB

If the OS or project data exceeds the capacity of the memory for storage (ROM), the capacity of the ROM can be extended by using a CF card.

Example) For GT1675M-V



The built-in flash memory corresponds to "Drive C", and the CF card corresponds to "Drive A (standard)" or "Drive B (extended)".

· The memory for operation (RAM) cannot be extended.

If the amount of data expanded to the memory for operation (RAM) exceeds the above capacity, data must be resized by reducing the project data or deleting the unnecessary OS.

For the extended function OS and option OS, the compressed data a and

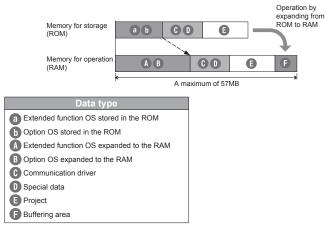
b are stored in the memory for storage (ROM) and the data size becomes larger as shown by (A) and (B) when they are expanded to the memory for operation (RAM).

The buffering area (1) is an area for storing the resource data such as logging or advanced alarm and uses the memory for operation (RAM). The data size varies depending of the setting.

The stored resource data is stored to the specified storage destination (Drive A or Drive B) when saving to a file is specified by GT Designer3. (The memory for storage (ROM) is not used.)

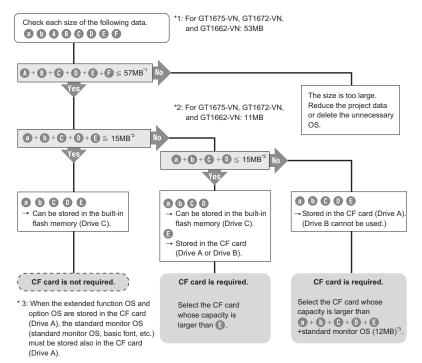
If the amount of data expanded to the memory for operation (RAM) exceeds the above capacity, data must be resized by deleting the project data or unnecessary OS.

Example) For GT1675M-V



• Whether the CF card is required or not and the required capacity of CF card vary depending on the data size.

Select whether to use the CF card and its capacity using the following flow chart.





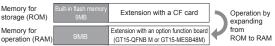
For GT15

. The GT15 operates by expanding the OS or project data stored in the memory for storage (ROM) to the memory for operation (RAM). The capacities of memory for storage (ROM) and memory for operation (RAM) varies depending on the GOT.

GOT	Memory	Capacity	Max. capacity (Option function board with add-on memory mounted)
GT1595-X, GT1585V-S, GT1585-S, GT1575V-S, GT1575-V, GT1565-V,	Memory for storage (ROM)(Built-in flash memory, included as standard)	9MB	-
GT1555-V, GT1555-Q, GT1550-Q	Memory for operation (RAM)(Included as standard)	9MB	57MB (When using the GT15- MESB48M)
GT1575-VN, GT1572-VN,	Memory for storage (ROM)(Built-in flash memory, included as standard)	5MB	-
GT1562-VN	Memory for operation (RAM)(Included as standard)	5MB	53MB (When using the GT15- MESB48M)

If the OS or project data exceeds the maximum capacity of the memory for storage (ROM), the capacity of the ROM can be extended by using a CF card and an option function board with add-on memory (GT15-QFNB M or GT15-MESB48M).

Example) For GT1575-V



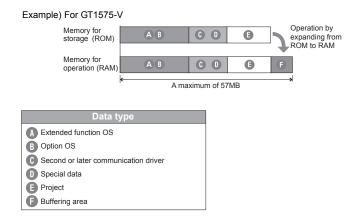
The built-in flash memory corresponds to "Drive C", and the CF card corresponds to "Drive A (standard)" or "Drive B (extended)".

· The memory for operation (RAM) can be extended up to the maximum capacity above with the option function board.

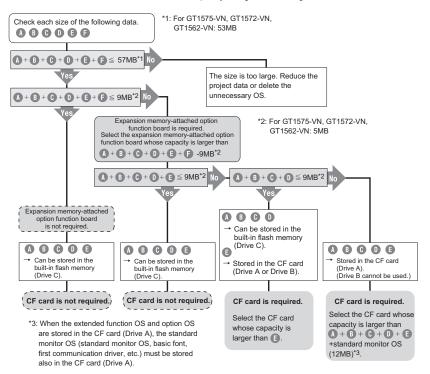
If the amount of data expanded to the memory for operation (RAM) exceeds the maximum amount above, data must be resized by deleting the project data or unnecessary OS.

The buffering area (F) is an area for storing the resource data such as logging or advanced alarm and uses the memory for operation (RAM). The data size varies depending of the setting. The stored resource data is stored to the specified storage destination (Drive A or Drive B) when saving to a file is specified by GT Designer3. (The memory for storage (ROM) is not used.)

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 Whether the expansion memory-attached option function board or CF card is required or not and the required capacity of expansion memory-attached option function board or CF card vary depending on the data size.
 Select whether to use the expansion memory-attached option function board or CF card and their capacity using the following flow chart.





Limit to write OS

(1) When the drive of the Standard OS in the Boot Drive is C drive

Even when the option function board with add-on memory is mounted to the GOT, the total volume of the Communication driver (the second or later one for the GT15), Extended function OS, and Option OS cannot exceed the user area capacity in the C drive.

(2) When the drive of the Standard OS in the Boot Drive is C drive

For GT16: Since the memory for operation (RAM) is included as standard, the total volume of the Communication driver, Extended function OS, Option OS, project data, special data, and etc. can be up to the max. total memory capacity.

Max. RAM capacity

Transfer destination	Target models	Max. capacity
	GT1695M-X, GT1685M-S, GT1675M-S, GT1675M-V, GT1665M-S, GT1665M-V, GT16 Handy	57MB
бт16	GT1675-VN, GT1672-VN, GT1662-VN	53MB

Refer to the following manual for details about the capacities of the memory for operation (RAM).

For GT15: When the option function board with add-on memory is mounted to the GOT, the total volume of the second or later Communication driver, Extended function OS, Option OS, project data, special data, and etc. can be up to the max. total capacity when the option function board with add-on memory is used.

Max. total capacity when option function board with add-on memory is used.

Transfer destination	Target model	Max. total capacity
	GT1595-X, GT1585V-S, GT1585-S, GT1575V-S GT1575-V, GT1565-V, GT1555-V, GT1555-Q, GT1550-Q	57MB
ст 15	GT1575-VN, GT1572-VN, GT1562-VN	53MB

Refer to the following manual for details about the types and capacities of the option function boards with add-on memory.

GT15 User's Manual

Project data

(1) GT Designer/GT Designer2 \rightarrow GT Works3 compatibility*

Project data created in GT Designer2 can be used in GT Works3. Project data created in GT Designer can be used in GT Works3 after the data is converted by GT Designer2/GT Designer2 Classic.

(2) GOT900 series \rightarrow GOT1000 series compatibility *

 Using data from the GOT-A900 series Project data for GOT-A900 series can be used in GOT1000 series. For the details, see Technical Bulletin No.GOT-A-0009 "Precautions when Replacing GOT-A900 Series with GOT1000 Series".

- Using data from the GOT-F900 series Project data for GOT-F900 series can be used in GOT1000 series. For the details, see "Replacement Guidance (for GOT1000 Series) - From GOT-F900/A950 Handy Series to GOT1000 Series" (JY997D39301).
 - *: Some data and functions cannot be used on the GOT1000 series.

Cable

- For details on using the GOT900 series bus connection cables, RS-422 cables and RS-232 cables with the GOT1000 series, see Technical Bulletin No.GOT-A-0009.
- The bus connection cables, RS-422 cables and RS-232 cables for the GOT1000 series cannot be used for the GOT900 series.

Panel cutting dimensions

(1) GOT900 series → GOT1000 series compatibility

• The A985GOT(-V) and GT1685/GT1585, A975/970GOT(-B) and GT167 //GT157 ,

F940GOT and GT155 //GT115 //GT105 have the same panel dimensions, respectively. Therefore, it is not necessary to change the mounting hole size.

• Although the A95 differs in panel cut dimensions from the GT155 , GT115 -Q BDQ and

GT115-QBDA, the former model can be replaced with any of the latter ones without changing the mounting hole size.

When using multi-channel function with GT16 or GT15

The multi-channel function monitors multiple FA devices with mounting multiple communication units on a GOT or using the standard interface.

Available combinations of connection types

(1) GT16

For GT16, the combinations of the bus or network connection, the Ethernet connection, and the serial connection are available as shown in the following table.

	Connection type	Reference		
	Bus connection	4.1.3 Details of bus connection		
	MELSECNET/H connection (PLC to PLC network)	4.1.6 MELSECNET/H connection		
	MELSECNET/10 connection (PLC to PLC network)	4.1.7 MELSECNET/10 connection		
Bus / network	CC-Link IE controller network connection	4.1.8 CC-Link IE controller network connection		
connection	CC-Link connection (intelligent device station)	4.1.9 CC-Link connection (intelligent device station)		
	CNC connection (MELSECNET/10 connection (PLC to PLC network)	4.2.4 CNC (MELDAS C6/C64) connection (MELSECNET/10 connection)		
	CNC connection (CC-Link connection (intelligent device station))	4.2.4 CNC (MELDAS C6/C64) connection (CC-Link (intelligent device station) connection)		
	Ethernet connection	4.1.11 Ethernet connection		
	Robot controller connection	4.2.3 Robot controller connection		
	CNC connection (Ethernet connection)	4.2.4 CNC (MELDAS C6/C64) connection (Ethernet connection)		
Ethernet	Third party PLC connection (Ethernet connection)	Third party programmable controller • 4.3.2 OMRON programmable controller • 4.3.13 YASKAWA programmable controller • 4.3.14 YOKGGAWA programmable controller • 4.3.15 ALLEN-BRADLEY programmable controller		
	Microcomputer connection (Ethernet)	Microcomputer connection 4.5 Microcomputer connection 		
	MODBUS [©] /TCP connection	MODBUS [©] connection • 4.6.2 MODBUS(R)/TCP connection		
	Direct CPU connection	4.1.4 Direct CPU connection		
	Computer link connection	4.1.5 Computer link connection		
	CC-Link connection (via G4)	4.1.10 CC-Link connection (via G4)		
	Inverter connection	4.2.1 Inverter connection		
	Servo amplifier connection	4.2.2 Servo amplifier connection		
	CNC connection (serial connection)	4.2.4 CNC (MELDAS C6/C64) connection (Direct CPU connection)		
	GOT multi-drop connection	4.2.5 GOT Multi-drop connection		
Serial connection	Third party PLC connection (serial connection)	Third party programmable controller • 4.3.2 GMRCN programmable controller • 4.3.3 KEYENCE programmable controller • 4.3.5 SHARP programmable controller • 4.3.5 SHARP programmable controller • 4.3.6 JTEKT programmable controller • 4.3.7 TOSHIBA programmable controller • 4.3.8 TOSHIBA MACHINE programmable controller • 4.3.9 HITACHI IES programmable controller • 4.3.10 HITACHI programmable controller • 4.3.11 FAITACHI ES programmable controller • 4.3.12 PANASONIC EW programmable controller • 4.3.12 PANASONIC EW programmable controller • 4.3.13 ALIEA PANASONIC EW programmable controller • 4.3.14 YOKOGAWA programmable controller • 4.3.15 ALIEN-BRADLEY programmable controller • 4.3.16 FANUC programmable controller • 4.3.17 IS INDUSTRIAL SYSTEMS programmable controller • 4.3.17 IS INDUSTRIAL SYSTEMS programmable controller		
	Third party safety controller connection Third party servo amplifier connection	Third party programmable controller • 4.3.18 SICK safety controller Other third party devices		
	Third party robot controller connection	4.4.2 Panasonic servo amplifier Other third party devices 4.4.3 IAI robot controller		

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	Connection type	Reference
Serial connection	Third party temperature controller connection	Third party temperature controller 4.7.3 SHINKO Inicitating controller 4.7.3 SHINKO Inicitating controller 4.7.4 CHINO controller 4.7.5 FUJJ SYS temperature controller 4.7.6 YAMATAKE temperature controller 4.7.6 YAMATAKE temperature controller 4.7.8 RKC temperature controller
	Microcomputer connection (Serial)	Microcomputer connection 4.5 Microcomputer connection
	MODBUS [©] /RTU connection	MODBUS(R) connection 4.6.1 MODBUS(R)/RTU connection

The following shows the applicable combinations of connection types, the number of channels, and restricted functions.

○: Allowed △: Restricted

		GOT to be used		Functions that are restricted by the connection type ^{*1}	
		GT1695		FA transpar	ent function
Item	Allowable combination of connection types	GT1685			
		GT1675	GT16 Handy		
		GT1672	GITOHanuy	RS-232	USB
		GT1665			
		GT1662			
(a)	 Bus / network connection: 1 channel 	Max. 4 channels		^{*2}	
(a)	Serial connection: 1 to 3 channels	Max. 4 channels	-		0
(b)	Bus / network connection: 1 channel	Max. 4 channels	_	* 2	
(0)	Ethernet connection: 1 to 3 channels	Max. 4 chamileis			0
(c)	Ethernet connection: 1 to 3 channels	Max. 4 channels	Max. 4 channels	^{*2}	
(0)	 Serial connection: 1 to 3 channels 	Wax. 4 Chamlers	Wax. 4 Chamleis	Δ -	0
	Bus / network connection: 1 channel				
(d)	Ethernet connection: 1 to 2 channels	Max. 4 channels	-	^{*2}	0
	Serial connection: 1 to 2 channels				
(e)	Serial connection: 4 channels	Max. 4 channels	-	^{*2}	0
(f)	Ethernet connection: 4 channels	Max. 4 channels	Max. 4 channels	^{*2}	0

*1 When the functions below are used, the connectable number of channels may be restricted depending on the combination of the functions to be used.

- Bar code function
 RFID function
- Remote personal computer operation function
- Multimedia function
 Operation panel function
- RGB display function

Report function
 Hard copy(For printer output)
 Functions with the CF card unit or CF card extension unit

Video display functionExternal I/O function

Sound output function
 • Functions with the CF card unit or CF card extension unit
The video/RGB display, the RGB output, and the multimedia function cannot be used together.
The CF card unit and the CF card extension unit cannot be used at the same time.
For details, refer to the following.

Mounting units on the GOT side interface <GT16/GT15>

*2 For the FA transparent function via the RS-232 connection, the RS-232 interface built in the GOT is available only.

When the RS-232 interface built in the GOT is already used, the FA transparent function is not available.

(2) GT15

For GT15, the combinations of the bus, network, or Ethernet connection and the serial connection are available as shown in the following table.

	Connection type	Reference		
	Bus connection	4.1.3 Details of bus connection		
	Ethernet connection	4.1.11 Ethernet connection	- -	
	MELSECNET/H connection (PLC to PLC network)	4.1.6 MELSECNET/H connection	601	
	MELSECNET/10 connection (PLC to PLC network)	4.1.7 MELSECNET/10 connection	- 2	
	CC-Link IE controller network connection	4.1.8 CC-Link IE controller network connection	-	
	CC-Link connection (intelligent device station)	vice 4.1.9 CC-Link connection (intelligent device station)		
	Robot controller connection	4.2.3 Robot controller connection	SOFTWARE	
	CNC connection (MELSECNET/10	4.2.4 CNC (MELDAS C6/C64) connection	- 5	
Bus / network / Ethernet	connection (PLC to PLC network))	(MELSECNET/10 connection)	S	
connection	CNC connection (CC-Link connection 4.2.4 CNC (MELDAS C6/C64) connection		2	
	(intelligent device station))	(CC-Link (intelligent device station) connection)	3	
	CNC connection (Ethernet connection)	4.2.4 CNC (MELDAS C6/C64) connection (Ethernet connection)	-	
	Third party PLC connection (Ethernet connection)	Third party programmable controller • 4.3.2 OMRON programmable controller • 4.3.13 YASKAWA programmable controller • 3.14 YOKOGAWA programmable controller • 4.3.15 ALLEN-BRADLEY programmable controller	FUNCTION	
	Microcomputer connection (Ethernet)	Microcomputer connection 4.5 Microcomputer connection 	FUN	
		MODBUS [®] connection	4	
	MODBUS [®] /TCP connection	4.6.2 MODBUS(R)/TCP connection		
	Direct CPU connection	4.1.4 Direct CPU connection	- z	
	Computer link connection	4.1.5 Computer link connection	- <u>z</u> e	
	CC-Link connection (via G4)	4.1.10 CC-Link connection (via G4)	CONFIGURATION	
	Inverter connection	4.2.1 Inverter connection	- 55 B	
	Servo amplifier connection	4.2.2 Servo amplifier connection	- 25	
	CNC connection (serial connection)	4.2.4 CNC (MELDAS C6/C64) connection (Direct CPU connection)	- 88	
	GOT multi-drop connection	4.2.5 GOT Multi-drop connection		
Serial connection	Third party PLC connection	Third party programmable controller 4.3.2 OMRON programmable controller 4.3.3 KEYENCE programmable controller 4.3.4 KOYO EI programmable controller 4.3.5 SHARP programmable controller 4.3.6 JTEKT programmable controller 4.3.7 TOSHIBA MACHINE programmable controller 4.3.8 TOSHIBA MACHINE programmable controller 4.3.9 HITACHI ES programmable controller 4.3.10 HITACHI programmable controller	COMPLIANCE WITH OVERSEAS G	
	Third party safety controller connection	4.3.11 FUJI FA programmable controller 4.3.12 FANASONIC EW programmable controller 4.3.12 FANASONIC EW programmable controller 4.3.13 YASKAWA programmable controller 4.3.14 YOKOGAWA programmable controller 4.3.15 ALLEN-BRADLEY programmable controller 4.3.16 GE FANUC programmable controller 4.3.16 SILDUSTRIAL SYSTEMS programmable controller 4.3.19 SIEMENS programmable controller Third party programmable controller 4.3.18 SICK safety controller	EQUIPMENT, SOFTWARE, AND MANUALS	
	Third party servo amplifier connection	Other third party controllers 4.4.2 Panasonic servo amplifier 	- 7	
	Third party robot controller connection	Other third party controllers 4.4.3 IAI robot controller 		

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(Connection type	Reference
Serial connection	Third party temperature controller connection	Third party temperature controller 4.7.3 SHINKO indicating controller 4.7.3 SHINKO indicating controller 4.7.4 CHINO controller 4.7.5 FUJJ SYS temperature controller 4.7.6 YAMATAKE temperature controller 4.7.7 KOKOAWA temperature controller 4.7.8 RKC temperature controller
	Microcomputer connection (Serial)	Microcomputer connection 4.5 Microcomputer connection
	MODBUS [©] /RTU connection	MODBUS [©] connection • 4.6.1 MODBUS(R)/RTU connection

The number of channels and the functions that can be used differ depending on the GOT to be used. The table below shows the allowable combinations of connection types, the number of channels and restricted functions.

○: Allowed ∧: Restricted

		GOT to be used		Functions that are restricted connection type*1*2	
Item	Allowable combination of connection types	GT1595		FA transparent function	
item	tem Allowable combination of connection types	GT1585			
		GT157	GT155	RS-232	USB
		GT156			
(a)	Bus / network / Ethernet connection: 1 channel	Max. 4 channels	Max. 2 channels	^* 3	0
(a)	 Serial connection: 1 to 3 channels 	Wax. 4 chamileis	Wax. 2 chamileis		0
(b)	Serial connection: 4 channels	Max. 4 channels	Max. 2 channels	* ³	0

*1 When the functions below are used, the connectable number of channels may be restricted depending on the combination of the functions to be used.

 RFID function Bar code function

Remote personal computer operation function

· Video display function

- Operation panel function External I/O function
- RGB display function
- Report function • Hard copy(For printer output) • Sound output
- · Functions with the CF card unit or CF card extension unit

Video/RGB display and RGB output cannot be used at the same time.

The CF card unit and the CF card extension unit cannot be used at the same time.

For details, refer to the following.

Mounting units on the GOT side interface <GT16/GT15>

- *2 When any of the connection methods below is used, Ethernet connection cannot be used although Ethernet download, gateway function and MES interface function can be used.
 - Bus connection MELSECTNET/H connection MELSECNET/10 connection

 CC-Link IE controller network connection CC-Link connection

- MODBUS[®] /TCP connection
- *3 For the FA transparent function via the RS-232 connection, the RS-232 interface built in the GOT is available only.

When the RS-232 interface built in the GOT is already used, the FA transparent function is not available.

Number of connectable channels/mountable units/mountable stages

(1) Number of connectable channels

The number of connectable channels varies depending on the GOT model. Refer to the following table.

(2) Number of mountable units/and mounting stages

When the multi-channel function is used, add interfaces on the GOT side using any of the following methods.

- (a) Stack communication units on the extension unit interface.
- (b) Mount communication units on the extension unit interface to use the unit in combination with the standard interface. The number of mountable units and mounting stages vary depending on the GOT model.
 - *: The performance of GOT may be affected depending on the configuration of connected devices.

		GT1695 GT1595 GT1685 GT1585 GT167 GT157 GT166 GT156	GT155	GT16 Handy	Description
(1)	Max. number of connectable channels	4	2	4	For GT16: The number of communication ports (communication units and interfaces) for use for communication on the GOT. • Only one channel per one GOT can be connected in the bus connection and network connection. • Ethernet connection is available for up to four channels. • When the Ethernet inferface built into the GOT is used for functions other than communication with the connected device ¹ , the interface is not included in the number of connection of channels. • Othernet inferface built into the GOT is used for functions other than devices ¹² of channels does not include the interface used for connection with external devices ¹² For GT15: The number of communication ports (communication units and interfaces) for use for communication on the GOT. • Only one channel per one GOT can be connected in bus connection and network connected. • When the Ethernet communication unit is used for functions other than communication with the connected device ¹ , the unit is not included in the number of connected channels. • The number of connection on include the interface used for connected channels. • The number of connection on the GOT.
	Max.numberof mountable units	5	3	Not mountable	The number of units that can be mounted on extension unit interfaces 1 and 2 of the GOT. • More than one serial communication unit ³ of the same model can be mounted. • Optional units are included in the number of units. • RS-422 conversion units are not included in the number of units. • It is necessary to calculate the total current consumed by the units to be mounted. © Refer to "Calculation of current consumed by the units (ST16/GT15>*.
(2)	Max. number of mounting stages	3 (2 slots)	3 (1 slot)	Not mountable	The number of mounting stages that units can be stacked on extension unit interfaces 1 and 2 of GOT. • Units that occupy two slots ^{4/5} must be mounted on the first stage. • When any units in ⁹ are used, mount the unit on the first stage, then mount other units on the second or subsequent stages. • Units in ⁶ cannot be stacked on other units. Mount units on the first stage. (I) The first to "External Dimensions" in section 1.5 and "Mounting units on the GOT side interface <gt16 gt15="">".</gt16>

Ethernet download function, gateway function and MES interface function Barcode reader, RFID controller, personal computer (remote personal computer function, FA transparent function, OS installation, and project data download), and printer (serial) GT15-RS2-9P, GT15-RS4-9S and GT15-RS4-TE

*2 *3

•4

G115-RG2249, G115-R694-95 and G115-R54-1E G115-GBUS2, G115-ABUS2, G115-J71;P23-28, G115-J71BR13, G115-J61B113, G115-J71GP23-SX G116M-V4, G115V-75V4, G116M-R2, G115V-75R1, G116M-V4R1, G116V-75V4R1, G116M-ROUT, G115V-75ROUT, G116M-MMR G115-75GBUS2, G115-75GBUS2, G115-75ABUS2, G115-757V1B23, G115-75J71BR13-Z, G115-75J61B113-Z

Communication driver

A communication driver must be installed for each of the connection configurations.

For the GT16, the communication driver is installed in the user area.

For the GT15, communication drivers for the second and subsequent channels will be installed in the user area.

Option function board

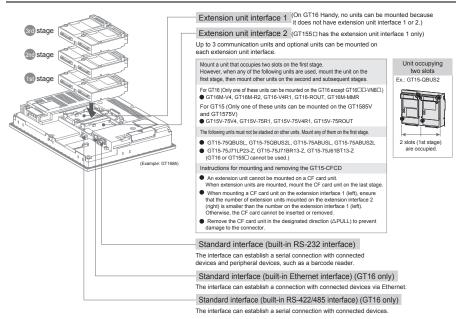
Not necessary when using the GT16.

The GT15 requires an optional function board.

Use the optional function board GT15-QFNB(M) or GT15-MESB48M. The GT15-FNB cannot be used.

4

Mounting units on the GOT side interface <GT16/GT15>



Calculation of current consumed by units <GT16/15>

When using multiple units, a barcode reader, and a RFID controller, the total current consumed by the units, barcode reader and RFID controller must be less than the current that can be supplied by the GOT. Design the system using the following values so that the total current is within the range of the current supply capacity of the GOT.

 Current that can be : 	supplied by the GOT	(2) Current used by un	its, barcode	reader and RFID control	oller
GOT model	Current supply capacity (A)	Unit model	Consumed current (A)	Unit model	Consumed current (A)
GT1695	2.4	GT15-QBUS		Barcode reader	*2
GT1685	2.4	GT15-QBUS2	0.275*1	GT15-PRN	0.09
GT1675 🗆	2.4	GT15-75QBUSL	0.2751	GT16M-V4	0.12 *1
GT1665 🗆	2.4	GT15-75QBUS2L		GT15V-75V4	0.2 *1
GT1595	2.13	GT15-ABUS		GT16M-R2	0 *1
GT1585		GT15-ABUS2	0.12	GT15V-75R1	0.2 *1
(incl. GT1585V)	1.74	GT15-75ABUSL		GT16M-V4R1	0.12 *1
GT157	<u> </u>	GT15-75ABUS2L		GT15V-75V4R1	0.2 *1
(incl. GT1575V)	2.2	GT15-RS2-9P	0.29	GT16M-ROUT	0.11 *1
GT156	2.2	GT15-RS4-9S	0.33	GT15V-75ROUT	0.11
GT155	1.3	GT15-RS4-TE	0.3	GT16M-MMR	0.27 *1
01135	1.3	GT15-RS2T4-9P	0.098	GT15-CFCD	0.07
		GT15-J71E71-100	0.224	GT15-CFEX-C08SET	0.15
		GT15-J71GP23-SX	1.07	GT15-SOUT	0.08
		GT15-J71LP23-25	0.56	GT15-DIO	0.1
		GT15-J71BR13	0.77	GT15-DIOR	0.1
		GT15-J61BT13	0.56	RFID controller	*2

(3) Calculation example

When GT15-J71BR13, GT15-RS4-9S (3 units), GT15-J71E71-100 (for gateway function) and barcode reader (0 12A) are ected to a GT1575-V



2.2 0.77 + 0.33 + 0.33 + 0.33 + 0.224 + 0.12=2.104 Since the total current is within the current supply capacity of the GOT, the units can be used

*1 :This value is used for calculating the current consumption of multi-channel functions For the specifications of each unit, see the manual supplied with each unit,

*2 :When using a barcode reader or a RFID controller to which the power is supplied from the standard interface, add the current to be used by the barcode reader and RFID controller at 5VDC. (Maximum less than 0.3A)

(1) License key

A license key is required for using GT SoftGOT1000. The license key includes the following two types.

Model	Description
GT15-SGTKEY-U	For connecting to USB port
GT15-SGTKEY-P *1	For connecting to parallel port

*1: Not available with the PC CPU module that has no parallel port. Use the GT15-SGTKEY-U.

(a) How to use license key

Be sure to connect a license key to the target device before monitoring with GT SoftGOT1000.

When monitoring is started without the license key, GT SoftGOT1000 automatically ends in approximately two hours.

Do not remove the license key during monitoring.

When the license key is removed during monitoring, GT SoftGOT1000 automatically ends.

(b) Before connecting license key

The OS recognizes a license key as a controller. Therefore, install the system driver (device driver) as in the case of the other controllers. The license key is accessed via the system driver. When the system driver is not installed, the license key cannot be accessed.

(c) Applicable target of license keys The GT15-SGTKEY-U and GT15-SGTKEY-P are dedicated to GT SoftGOT1000. The license keys are not applicable to GT SoftGOT2.

(2) When connecting GT15-SGTKEY-U

(a) Precautions for installing or uninstalling system driver

Remove the GT15-SGTKEY-U before installing or uninstalling the system driver. When installing the system driver with the GT15-SGTKEY-U connected, the installation of USB may fails.

When the installation fails, uninstall the system driver with the GT15-SGTKEY-U removed, and then install the system driver again.

(3) When connecting GT15-SGTKEY-P

(a) Available port for GT15-SGTKEY-P

The GT15-SGTKEY-P can be used with the parallel port mounted on a personal computer by default.

The GT15-SGTKEY-P is not applicable to parallel ports extended or connected via a converter.

(b) When using GT15-SGTKEY-P with other devices

The following devices cannot be used at the same port as that for the GT15-SGTKEY-P.

- SCSI interface for parallel port
- Floppy disk drive, hard disk drive, CD-ROM or ZIP drive connected to parallel port
- Devices with data transfer methods that the specifications are out of the standard specification for the communication method via a parallel port (Interlink network, Centronics printer interface, and others)
- (c) Precautions for connecting GT15-SGTKEY-P Connect the GT15-SGTKEY-P between the printer switching device and a personal computer.

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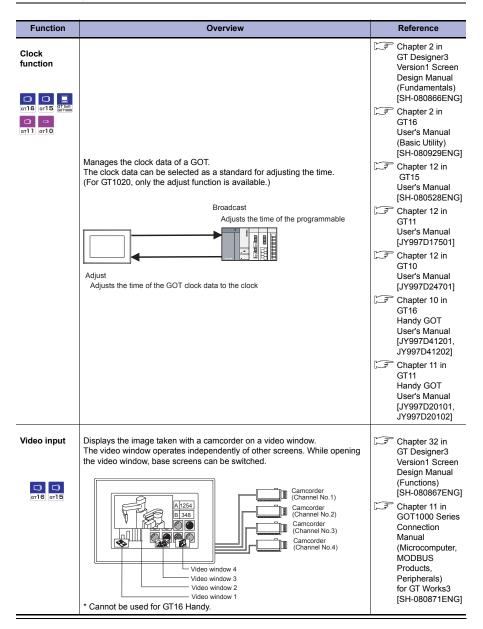
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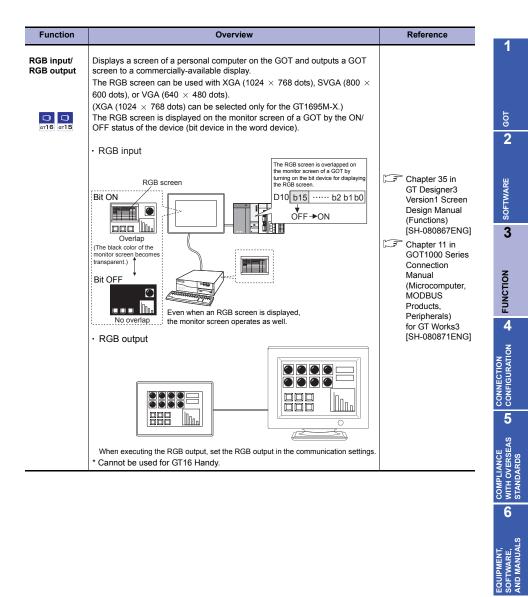
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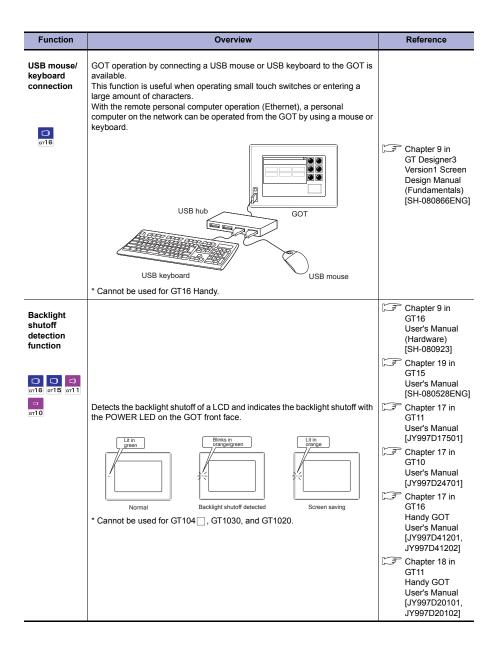
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3.3 Overview of Each Function

Hardware specifications







Function	Overview	Reference
FA transparent function	Enables a personal computer to read, write, and monitor a sequence program of the MITSUBISHI programmable controller via a GOT connected to the programmable controller and the personal computer. The software version applicable to the FA transparent function differs depending on the software.	Chapter 21 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 [SH-080868ENG] GT 16 Handy GOT User's Manual [JY997D41202] GT11 Handy GOT User's Manual [JY997D20101, JY997D20102]
Multi-channel function	Monitors up to four controllers (four channels), including a programmable controller CPU, a temperature controller, and an inverter, on one GOT with multiple communication drivers installed. For specifications and precautions of the multi-channel function, refer to "Precautions for Use" in section 3.2. The devices of controllers are monitored by installing multiple communication drivers. * For GT155 , monitors up to two controllers (two channels). * For GT155 monitors up to two controllers (two channels). * For GT16 Handy, only the following combinations are available. • Ethernet connection • Ethernet connection	Chapter 20 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG] Chapter 29 in GT16 Handy GOT User's Manual [JY997D41201, JY997D41202]

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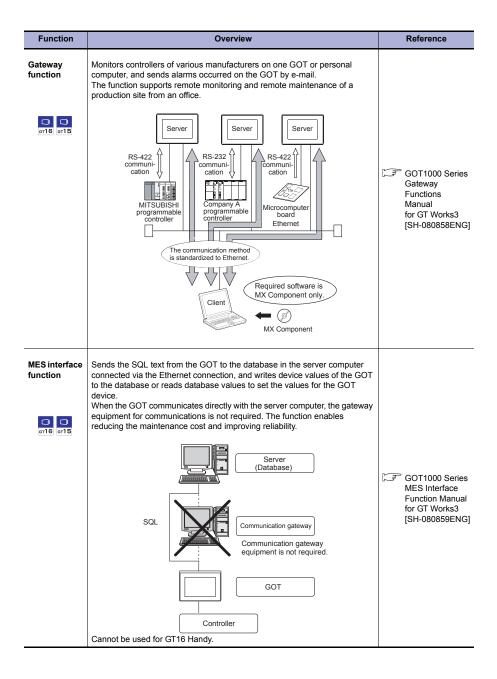
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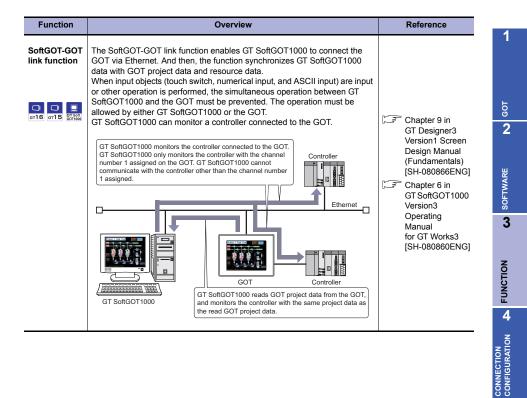
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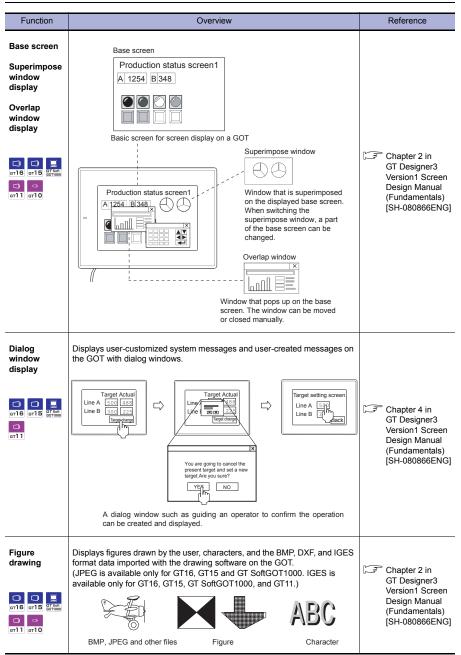


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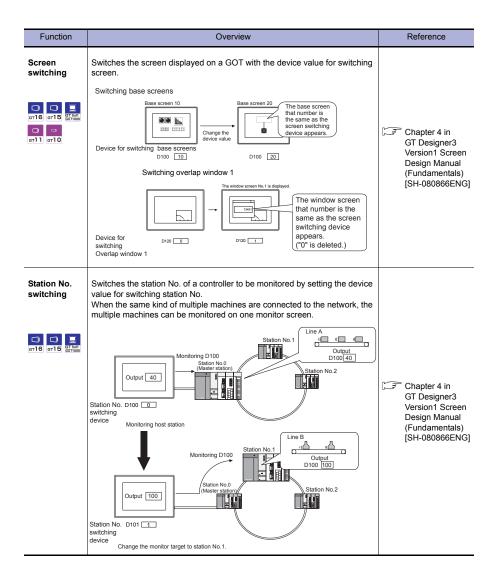
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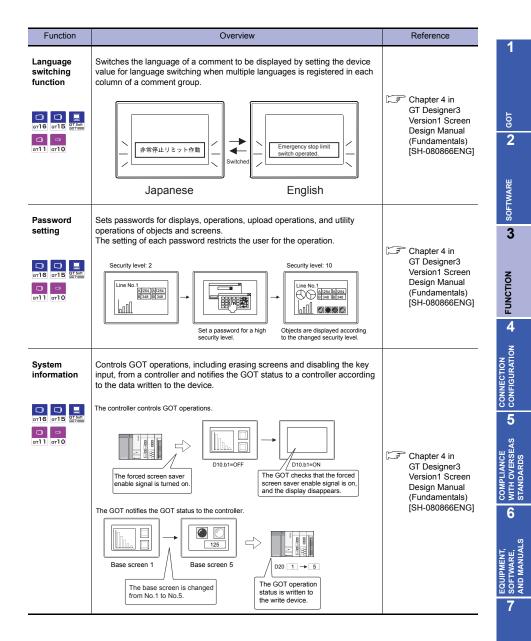
Screen design



Function	Overview	Reference	
Font	Displays a wide variety of fonts, including the standard font compatible with Unicode 2.1 and the fonts available for Windows [©] . Standard font -1 Standard (Bothic) 16dot Standard(Gothic) 16dot Standard(Mincho)		1
or16 or15 Or16 or10 or10	HQ font 12dot HQ Wincho 12dot HQ Gathic 16dot HQ Mincho 16dot HQ Gothic TrueType font TrueType font Numerical Gothic 7-Segment 12345 12345 Windows ⁹ font	Chapter 2 in GT Designer3 Version1 Screen Design Manual (Fundamentals) [SH-080866ENG]	SOFTWARE C GOT
	Windows font Stroke font ² Stroke *1: Not available for GT1020. *2: Not available for GT11 and GT10.		3 Soft
Logo text	The text can be displayed with various effects such as gradation. ITSUBISHI ITSUBISHI ITSUBISHI ITSUBISHI ITSUBISHI	Chapter 4 in GT Designer3 Version1 Screen Design Manual (Functions) [SH-080867ENG]	ON FUNCTION
Kanji region	Some Chinese characters look different even with synonyms depending on the region where Chinese characters are used (Japanese kanji, simplified Chinese or traditional Chinese). With the function, Chinese characters in each region can be displayed. (For GT11, Japanese kanji and simplified Chinese can be displayed by installing an applicable standard font. Traditional Chinese cannot be displayed.)	Chapter 2 in GT Designer3 Version1 Screen Design Manual (Fundamentals) [SH-080866ENG]	COMPLIANCE CONNECTION WITH OVERSEAS CONFIGURATION STANDARDS CONFIGURATION
Object super- imposition (layers)	Superimposes two types of sheets (layers) and displays the sheets as one screen. Objects can be superimposed with layers. Front layer	Chapter 5 in GT Designer3 Version1 Screen Design Manual (Fundamentals) [SH-080866ENG]	GLOSSARY L GUIPMENT, C SOFTWARE, C AND MANUALS

3.3 Overview of Each Function

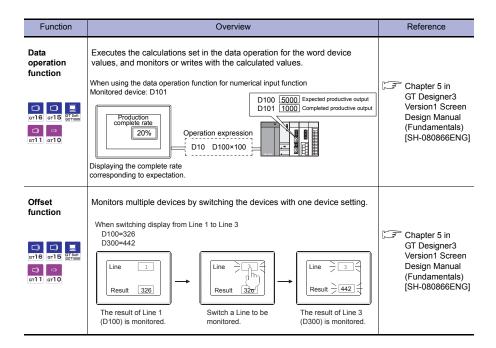


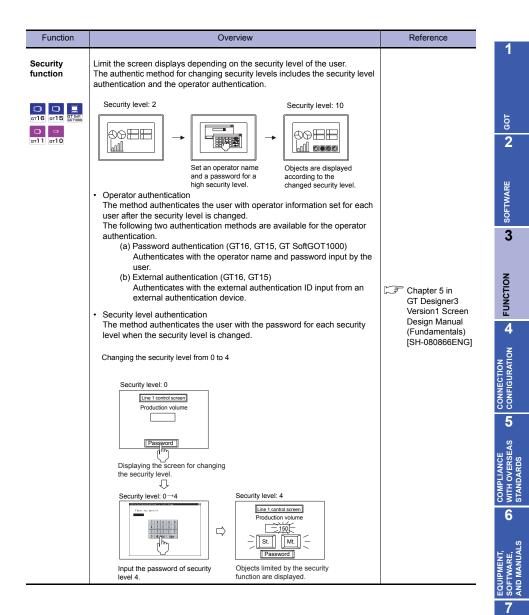


Function	Overview	Reference
Commu- nication settings		Chapter 1 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 [SH-080868ENG]
6716 6715 6711		Chapter 1 in GOT1000 Series Connection Manual (Non-Mitsubishi Products 1) for GT Works3 [SH-080869ENG]
	Sets the connection type and the communication interface for communications between the GOT and a controller.	Chapter 1 in GOT1000 Series Connection Manual (Non-Mitsubishi Products 2) for GT Works3 [SH-080870ENG]
	Extension interface Standard interface	Chapter 1 in GOT1000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3 [SH-080871ENG]
	Communication interface setting (Example with the multi-channel function)	Chapter 3 in GT16 User's Manual (Basic Utility) [SH-080929ENG]
	Communication interface setting Programmable controller CPU	Chapter 10 in GT15 User's Manual [SH-080528ENG]
	(Example with the multi-channel function)	GT11 GT11 User's Manual [JY997D17501]
		Chapter 10 in GT10 User's Manual [JY997D24701]
		Chapter 11 in GT16 Handy GOT User's Manual [JY997D41201, JY997D41202]
		Chapter 10 in GT11 Handy GOT User's Manual [JY997D20101, JY997D20102]

Function	Overview	Reference	
Startup logo or16 or15 Office or11 or10	Changes the logo displayed when starting the GOT to any BMP screens. At the GOT startup Original \rightarrow Image for the set BMP screen is displayed.	Chapter 4 in GT Designer3 Version1 Screen Design Manual (Fundamentals) [SH-080866ENG]	1 100 2
Comment registration	Registers character strings created by the user as a comment. The registered comments can be displayed with multiple object functions. The comment includes the basic comment and the comment group. (Available font for the basic comment is only 16dot(Standard/HQ Mincho).) • Basic comment display example The comment corresponding to the comment No. that is the same as the device value is displayed with the comment display function. Basic comment D100=1	Capter 4 in GT Designer3 Version1 Screen Design Manual (Fundamentals) [SH-080866ENG]	us CJ CONFIGURATION C FUNCTION C SOFTWARE
Part registration	Registers figures created by the user as parts. The registered parts can be displayed with object functions. • When displaying BMP/JPEG files set as parts • Use BMP/JPEG Memory card Inset a memory card is not available for GT10. • The memory card is not available for GT10. • When displaying registered parts • When displaying registered parts • Download parts registered with GT Designer2 to a GOT. Displaying the registered parts	CF Chapter 4 in GT Designer3 Version1 Screen Design Manual (Fundamentals) [SH-080866ENG]	SSARY L EQUIPMENT, COMPLIANCE SSARY L SOFTWARE, D WITH OVERSEAS AND MANUALS STANDARDS

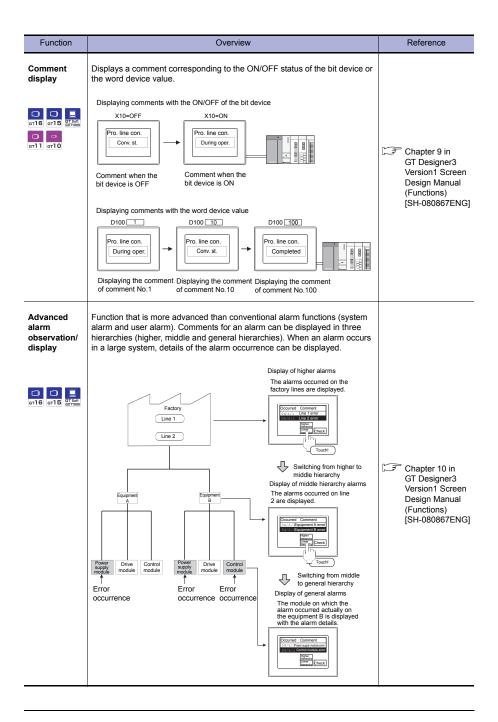
GLOS





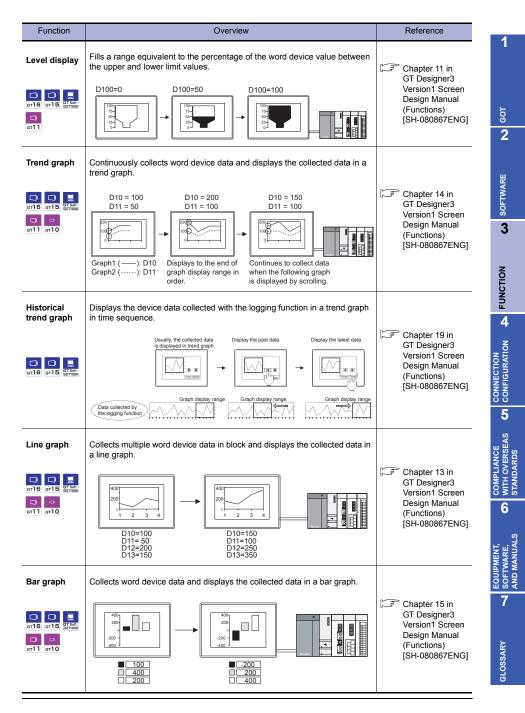
Function	Overview	Reference
Lamp display	Changes lamp colors according to the ON/OFF status of the bit device or the word device value. Bit lamp X10=OFF Lit X10=ON Not lit	Chapter 3 in GT Designer3 Version1 Screen Design Manual (Functions) [SH-080867ENG]
Touch switch	Turns bit devices on or off and switches the GOT screens with touching the screen.	Chapter 2 in GT Designer3 Version1 Screen Design Manual (Functions) [SH-080867ENG]
Numerical display/ Numerical input	Displays the data stored in devices of a controller as numeric values on a GOT or writes any values from a GOT to devices of a controller. Numerical display D100 349 D100 722 D100=349 D100=722 Numerical input Table Transformed Tran	Chapter 5 in GT Designer3 Version1 Screen Design Manual (Functions) [SH-080867ENG]
	Use touch switches or a key window to input a value.	

Function	Overview	Reference	
Data list or16 or15 Original or11	Displays multiple word device values in a list. The line number and ruled lines of a list are automatically displayed. Image: state of the line number and ruled lines of a list are automatically displayed. Image: state of the line number and ruled lines of a list are automatically displayed. Image: state of the line number and ruled lines of a list are automatically displayed. Image: state of the line number and ruled lines of a list are automatically displayed. Image: state of the line number and ruled lines of a list are automatically displayed. Image: state of the line number and ruled lines of a list are automatically displayed. Image: state of the line number and ruled lines of a list are automatically displayed. Image: state of the line number and ruled lines of a list are automatically displayed. Image: state of the line number and ruled lines of a list are automatically displayed. Image: state of the line number and rule number and r	Chapter 7 in GT Designer3 Version1 Screen Design Manual (Functions) [SH-080867ENG]	C SOFTWARE C GOT
			3
ASCII display/ ASCII input	Recognizes the data stored in the word device as the character code. The function displays character strings or writes the input characters to the word device with the character code. ASCII display $\begin{array}{c} \hline QX \ 40 \\ \hline D12 \ 5851 + \ (XQ) \\ D13 \ 3420 + \ (4_{-}) \\ D13 \ 3420 + \ (4_{-}) \\ D14 \ 0030 + \ (0) \end{array} \\ \begin{array}{c} D12 \ 5851 + \ (XQ) \\ D13 \ 3420 + \ (4_{-}) \\ D14 \ 0032 + \ (2) \end{array} \\ \begin{array}{c} \hline ASCII input \\ \hline Use touch switches or a key window to input characters. \\ D10 \ 0000 + \ D11 \ 0000 + \end{array} \\ \begin{array}{c} \hline D10 \ 0000 + \ D11 \ 0000 + \ $	Chapter 6 in GT Designer3 Version1 Screen Design Manual (Functions) [SH-080867ENG]	COMPLIANCE CONNECTION FUNCTION WITH OVERSEAS GONFIGURATION FUNCTION STANDARDS CONFIGURATION FUNCTION
Clock display	Displays the date and time on a GOT.	Chapter 8 in GT Designer3 Version1 Screen Design Manual (Functions) [SH-080867ENG]	GLOSSARY L EQUIPMENT, SOFTWARE, AND MANUALS



Function	Overview	Reference	
Alarm display	Displays user-created alarms (user alarm) and system errors (system alarm). (Only the user alarm is available for GT10.)		1
С С	User alarm display Use the function to display the alarm created by the user.		
CT 1	MI00: OFF ON MIDI: OFF ON		GOT
	Image: State of the state o	Chapter 10 in GT Designer3 Version1 Screen Design Manual (Functions)	ARE 2
	System alarm display Use the controller, GOT, and network errors.	[SH-080867ENG]	SOFTWARE
	Error Counterior To an and the summarian de CNU 84.25 24.6 dem em 20 Sente counterior		FUNCTION
Alarm history display	Saves the times and comments of alarm occurrences in the built-in memory of the GOT, and displays the saved data as a history list.		2 4
다. (다.) (Alarm occurred Occurred Time Message Restore Check Up rown Check 04/03/01 10:25 9 Fuse error 11:25 10:45 X0:OFF→ON The occurred date, time and message of the alarm are displayed when X0 is turned on. The occurred date, time and message of the alarm are displayed when X0 is turned on.		CONNECTION CONFIGURATION
			5
	Alarm detail display Supply oil to the arm of Line 1. Alarm details, corrective actions for errors, and others are displayed The window for displaying details is any of the comment window, base screen, or window screen.	Chapter 10 in GT Designer3 Version1 Screen Design Manual (Functions) [SH-080867ENG]	COMPLIANCE WITH OVERSEAS STANDARDS
	Alarm checked time/System restoration Image: Constraint of the product of t		C EQUIPMENT, SOFTWARE, AND MANUALS
			GLOSSARY

Function	Overview	Reference
Scrolling alarm display	Enables user-created comments to scroll across the screen from right to left when an alarm occurs. A comment is repeatedly displayed until causes of the alarm are removed. The comment display position can be selected from among the top, center, and bottom of the base screen. The comment corresponding to the occurred alarm scrolls across the screen from right to left.	Chapter 10 in GT Designer3 Version1 Screen Design Manual (Functions) [SH-080867ENG]
Parts display	Displays registered parts according to the device status.	Chapter 20 in
or16 or15 0750 or11 or10	D100=1 D100=10 D100 D100=10 D100=10 D100=10	Chapter 20 in GT Designer3 Version1 Screen Design Manual (Functions) [SH-080867ENG]
Parts movement	Changes the part position and displays the part at the changed position by setting the word device value.	
orl orl offer orl orl offer orl	When executing parts movement display with specifying [Point] Point 1 Point 2 Point 3 A part is displayed at the point 1 position. Move to point 2. Move to point 3. D10:1 D10:2 D10:3	Chapter 21 in GT Designer3 Version1 Screen Design Manual (Functions) [SH-080867ENG]
Panelmeter display	Displays the percentage of the word device value between the upper and lower limit values in a meter (needle movement). D100=1000 $D100=2000$ $D100=3000$ $D100=300$ $D100$	Chapter 12 in GT Designer3 Version1 Screen Design Manual (Functions) [SH-080867ENG]

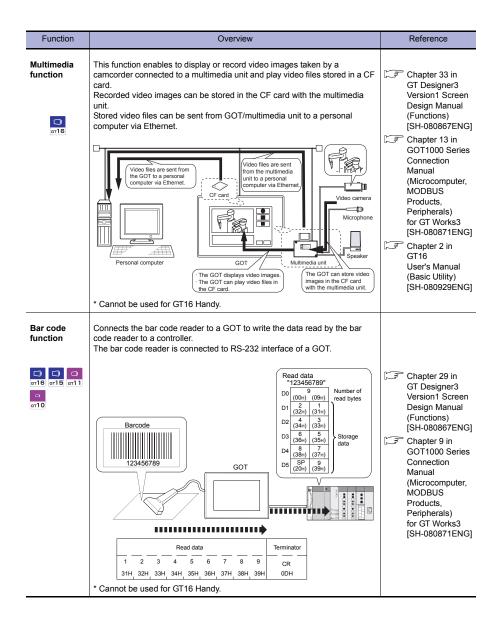


Function	Overview	Reference
Statistics graph	Displays the data ratio of collected multiple word devices to the total data in a statistics pie/bar graph.	
orife orife Office orife orife Office orifice orifice	Statistics pie graph $ \begin{array}{c} \hline 100 \\ \hline 200 \\ \hline 33 \\ \hline 200 \\ \hline 34 \\ \hline 000 \\ \hline 12 \\ 12 \\ \hline 12 \\ \hline 12 \\ 12 \\ \hline 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\$	Chapter 16 in GT Designer3 Version1 Screen Design Manual (Functions) [SH-080867ENG] Chapter 17 in GT Designer3 Version1 Screen
	Statistics bar graph	Design Manual (Functions) [SH-080867ENG]
Scatter graph	Displays two word device values as points on an x-y coordinate system on a graph.	
or 16 or 15 0750 or 11 or 11	X device: D100 Y device: D200 (300,200) (200,100) (200,100)	CFP Chapter 18 in GT Designer3 Version1 Screen Design Manual (Functions) [SH-080867ENG]
Status observation function	Turns a device on/off and writes a device value when the specified conditions are met.	
ari6 ari5 aris ari6 ari5 aris ari7 ari0	Condition (X10: ON) satisfied Write Write X10: ON D100: 0 = 100	Chapter 26 in GT Designer3 Version1 Screen Design Manual (Functions) [SH-080867ENG]

Function	Overview	Reference	
Advanced recipe function	Function that is more advanced than the recipe function The available number of recipe settings, device points or records is increased. In addition, the advanced recipe setting and the record are combined to create flexible recipe data. When changing only one of materials Cookle Large Small amount amount Flour : 100 -50 D11 (Butter: 150 -25 D12 (Sugar: 80 -40 D13 (Egg): 60 D13 (Egg): 60	Chapter 24 in GT Designer3 Version1 Screen Design Manual (Functions) [SH-080867ENG]	
Recipe function	Stores data (device values) such as blend and processing conditions of materials in a GOT and writes/reads the required data from/to the GOT to/ from a programmable controller.	<i>⊊</i> Chapter 24 in GT Designer3	
or16 or15 orfer or17 orfer or11 or10	Cookie D10 (Flour): 100 Butter: 50 Sugar: 80 Egg: 60 The product to be made is Butter: 65 Sugar: 80 Sugar: 80 The product to be made is Butter: 65 Sugar: 80 Sugar: 80 The product to be made is	Version1 Screen Design Manual (Functions) [SH-080867ENG]	
Time action function	Turns the bit device on/off, writes the value to the word device or performs other operations at the set day or time. The function is enabled with the day or time of the GOT. The set device is turned on on Monday morning and turned off on Friday evening.	Chapter 27 in GT Designer3 Version1 Screen Design Manual	CONNECTION
cr16 cr15 correct	On Monday morning OFF = ON M10 H10 is turned off. M10 is turned off. M10 is turned off.	(Functions) [SH-080867ENG]	CE

Function	Overview	Reference
Report function	Collects the data of the production management and status, and then prints the collected data. The following data can be printed with the function. • Word device value • Comment corresponding to the device status Comment corresponding to the device status * The following communication units cannot be mounted on the printer unit. • Bus connection unit (thinned type): GT15-75QBUS(2)L, GT15-75ABUS(2)L • MELSEONET/10 communication unit: GT15-75J61BT13-Z • CC-Link communication unit: GT15-75J61BT13-Z • Cannot be used for GT16 Handy.	Chapter 36 in GT Designer3 Version1 Screen Design Manual (Functions) [SH-080867ENG] Chapter 12 in GOT1000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3 [SH-080871ENG]
Hard copy function	Prints the monitor screen currently displayed on the GOT with a printer or saves the monitor screen currently displayed on the GOT to a memory card in the BMP/JPEG file format. The BMP/JPEG files saved in the memory card can be used for various documents on a personal computer.	 Chapter 37 in GT Designer3 Version1 Screen Design Manual (Functions) [SH-080867ENG] Chapter 12 in GOT1000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3 [SH-080871ENG]

Function	Overview	Reference	
External I/O function	Executes external inputs and external outputs (lamp and relay) with the external I/O unit. When using the external I/O function, the setting of GT Designer2 is not required.	CF Chapter 34 in GT Designer3 Version1 Screen	1
0 0 0 0 1 5 0 0 0 1 5 0 0 0 1 5 0 0 0 0	External input of up to 128 points is available. Push button, operation panel, and others * Cannot be used for GT16 Handy.	[SH-080867ENG] Chapter 7 in GOT1000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3 [SH-080871ENG]	SOFTWARE C GOT
Operation panel function	With the external I/O unit, input operations, including the touch input, numerical input, and screen switching, can be operated with an operation panel. When using the operation panel function, the operation panel must be set with GT Designer2.	Design Manual (Functions) ISH-080867ENG1	
or16 or15 Softwo	 Press the key that are set to turn on X0. * With the keyboard input function, operations equivalent to the ones with the operation panel function are available for GT SoftGOT1000. * Cannot be used for GT16 Handy. 	Products, Peripherals)	5
RFID Function	Enables the GOT to write data received by a RFID reader/writer of a RFID controller connected to the GOT into devices. Connect the RFID controller to the RS-232 interface of the GOT.	Version1 Screen Design Manual	O WITH OVERSEAS STANDARDS
or16 or15 series	Image: Controller Controler Control	MODBUS Products, Peripherals) for GT Works3 [SH-080871ENG]	GLOSSARY L SOFTWARE, AND MANUALS
	•	<u> </u>	ğ



Function	Overview	Reference	
Remote personal computer operation (Ethernet)	The remote personal computer operation (Ethernet) enables to operate a personal computer by using the GOT via Ethernet. The remote personal computer operation (Serial) enables to use a mouse using the USB mouse/keyboard function. By using a personal computer with the server OS, the remote personal computer operation (Ethernet) enables to operate multiple GOTs by using the terminal server function.	Chapter 31 in GT Designer3 Version1 Screen Design Manual (Functions) [SH-080867ENG] GDT1000 Series	1 LOD 2
or16	Mouse and on the GOT USB hub USB hub U	Connection Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3 [SH-080871ENG]	d SOFTWARE
Remote personal computer operation (Serial)	The function enables to operate the mouse pointer on a personal computer by touching the personal computer screen displayed on the GOT using the RGB display function. The USB mouse can be used with the USB mouse/keyboard function combined. (GT16 only)	Chapter 31 in GT Designer3 Version1 Screen Design Manual (Functions) [SH-080867ENG] Chapter 10 in GOT1000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3 [SH-080871ENG]	COMPLIANCE CONNECTION FUNCTION WITH OVERSEAS G CONFIGURATION F FUNCTION STANDARDS
Sound output function	Outputs sounds with speakers connected to the GOT. The sound output is applicable to the following functions. • Touch switch function • Status observation function • Time action function For using the sound output function with the GOT, register sound files. MO OFF Image: Status observation The specified sound file is output when set conditions are met (When M0 turns on.). * Cannot be used for GT16 Handy.	Chapter 38 in GT Designer3 Version1 Screen Design Manual (Functions) [SH-080867ENG] Chapter 6 in GOT1000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3 [SH-080871ENG]	GLOSSARY L GOUPMENT, O KITH SOFTWARE, D WITH AND MANUALS STAY

screen disp function Wh	alls other base screens or window screens to place on a basic screen and splays the called screens as one screen. hen setting the same objects on multiple screens, the memory capacity n be saved.	
ente ente series series series (etc.)	reven1 Basic screen Base screen 1); reven2 Basic screen Basic screen Basic screen Base screen 2); Basic screen Basic scr	Chapter 9 in GT Designer3 Version1 Screen Design Manual (Fundamentals) [SH-080866ENG]
display function GO	ables displaying documents created with applications, including crosoft [®] Word and Microsoft [®] Excel, on the GOT. Incuments, including specifications and manuals, can be displayed on the DT. Therefore, documents can be used on a screen for troubleshooting, d documents for operations can be displayed during monitoring.	Chapter 9 in GT Designer3 Version1 Screen Design Manual (Fundamentals) [SH-080866ENG]

Function	Overview	Reference	4
Operation log function	Saves GOT operation data by the user in a memory card as a history. When troubles occur at production sites, the operation history can be used to identify the cause of the troubles.		1
	 The saved operation history can be checked by the following methods. Display the operation history with the GOT utility. Save the operation history as a CSV file or Unicode text file and display the saved operation history on a personal computer. 		2 GOT
	PRODUCTION LINE LINE A [558] LINE B [197] Image: Stream of the screen to the base screen 10. Image: Stream of the screen of the base screen 10. Image: Stream of the screen of the base screen 10. Image: Stream of the screen of the base screen 10. Image: Stream of the screen of the base screen 10. Image: Screen of the screen of the base screen 10.		SOFTWARE
	Change target LINE A TOO Change the value by entering numerical value. Change the value by entering numerical value. Set the changed value.	Chapter 22 in GT Designer3 Version1 Screen Design Manual (Functions) [SH-080867ENG]	FUNCTION C
	Date Screen Details Before After 10:40 - Switching the screen - Base screen 10 10:45 Base screen 10 Entering numeric value 600 700 - 10:45 Base screen to the base screen 20. Switch the screen to the base screen 20. - - Date Screen Details Before After 10:40 - Switching the screen - Base screen 10 10:40 - Switching the screen - Base screen 10 10:40 - Switching the screen - Base screen 10 10:40 - Switching the screen - Base screen 10 10:40 - Switching the screen - Base screen 10 10:40 - Switching the screen - Base screen 10 10:40 - Switching the screen - Base screen 10		CONNECTION CONFIGURATION
	PRODUCTION LINE LINE A 1533 LINE 5 1990		COMPLIANCE

Function	Overview	Reference
Logging function	Collects and stores device values of a controller at an arbitrary timing or intervals. The collected data can be displayed as a historical trend graph. The collected data is also displayed on a personal computer with saving the data as a CSV file or Unicode text file.	GT Designer3 Version1 Screen
	Logging data DAY/TIME Line 1 Line 2 Line 3 2005/03/26 10:30:00 150 100 250 2005/03/26 10:30:10 152 98 260 2005/03/26 10:30:20 158 95 270 2005/03/26 10:30:20 170 92 280	Design Manual (Functions) [SH-080867ENG]
Log viewer function	Log viewer displays the logging data acquired from the high speed data logger module and LCPU, on the GOT, and controls files. Displaying logging data without personal computer 4. Using the log viewer function, the logging data stored in the CF card or SD card of LCPU can be viewed on the GOT. 5. The logging data can be stored in the CF card or USB memory mounted on the GOT and the data can be displayed on the GOT. 6. Using the data can be displayed on the GOT. 7. The logging data acquired from the high speed data logger module and LCPU can be retrieved from the GOT to the personal computer. 7. The logging data acquired from the GOT to the personal computer. 7. The logging data acquired from the GOT to the personal computer. 7. The logging data is displayed for the GOT to the personal computer. 7. The logging data is displayed for the GOT to the personal computer. 7. The logging data is displayed for the GOT to the personal computer. 7. The logging data is displayed for the GOT to the personal computer. 7. The logging data is displayed for the GOT to the personal computer. 7. The logging data is displayed for the GOT to the personal computer. 7. The logging data is displayed for the GOT to the personal computer. 7. The logging data is displayed for the GOT to the personal computer. 7. The logging data is displayed for the GOT to the personal computer. 7. The logging data is displayed for the GOT to the personal computer. 7. The logging data is displayed for the GOT to the personal computer.	Chapter 16 in GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3 [SH-080863ENG]

Function	Overview	Reference	
Device data transfer function	Enables the GOT to read values of specified devices and write the values into the other devices at any timing or by trigger intervals.	Capter 25 in GT Designer3 Version1 Screen Design Manual (Functions)	1 сот
Grif Grif	Controls a more complex GOT display with creating GOT's original program (script).	[SH-080867ENG]	SOFTWARE 2
	Controlling the GOT display with the script function drastically reduces the load on the system side (controllers) display. Example) Setting the interlock function to touch switches		30F
orl 1	Running Running	Chapter 28 in GT Designer3 Version1 Screen Design Manual (Functions) [SH-080867ENG]	
	When the Run/Stopkey is turned on without the Ready key When the Ready and Run/Stopkeys are turned on, the turned on, the Running amp does not light. Running amp lights. * The object script function is not available for GT11.		CONNECTION CONFIGURATION

COMPLIANCE WITH OVERSEAS STANDARDS

Maintenance functions

Function	Overview	Reference
System monitor function	Monitors and tests devices of a programmable controller CPU and the buffer memory of an intelligent function module with a dedicated screen. Preparing a debugging screen is not required for checking devices.	Capter 2 in GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3 [SH-080863ENG]
Device monitor function	For a controller connected to the GOT, forcibly turning on or off devices of the controller and changing the set value or present value are available.	GT10 GT10 User's Manual [JY997D24701]
MELSEC-A list editor function	Edits the sequence program of the ACPU in list format. Programs can be easily changed on GOT at worksites.	Chapter 4 in GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3 [SH-080863ENG]
MELSEC-FX list editor function	Edits the sequence program of the FXCPU in list format. Programs can be easily changed on GOT at worksites.	Capter 5 in GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3 [SH-080863ENG]

Function	Overview	Reference	4
Ladder monitor function	Monitors the sequence program of a programmable controller CPU in the ladder format with a dedicated screen. With the ladder monitor function, the cause of errors can be investigated on the GOT.	Chapter 3 in GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3 [SH-080863ENG]	C SOFTWARE C GOT
Ladder editor function	Edits sequence programs of a programmable controller CPU in the ladder diagram format with a dedicated screen.	CP Chapter 14 in GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3 [SH-080863ENG]	EUNCTION 4
Intelligent module monitor function	Monitors the buffer memory of an intelligent function module and changes the data with a dedicated screen. The signal status of I/O modules can also be monitored.	Chapter 6 in GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3 [SH-080863ENG]	Compliance Connection Mith overseas Configuration Standards
Q motion monitor function	Sets the servo monitoring and parameter of a motion controller CPU (Q series) with a dedicated screen.	Chapter 8 in GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3 [SH-080863ENG]	GLOSSARY L BOUIPMENT, SOFTWARE, AND MANUALS

Function	Overview	Reference
Servo amplifier monitor function	Enables various monitor functions, parameter changes, test operations, and others for a servo amplifier with a dedicated screen.	Chapter 9 in GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3 [SH-080863ENG]
Network monitor function	Monitors the network status of CC-Link IE CONTROLLER NETWORK, MELSECNET/H, MELSECNET/10, MELSECNET(I), and MELSECNET/B with a dedicated screen.	Chapter 7 in GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3 [SH-080863ENG]
CNC monitor function	Monitors the position display, alarm diagnosis, tool offset parameter, program data, and others equivalent to those for the MELDAS dedicated display with a dedicated screen.	Chapter 10 in GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3 [SH-080863ENG]

Function	Overview	Reference	
Backup/ restore function	Saves (backs up) the setting data, including a sequence program, parameters, setting values, for a controller connected to the GOT to a memory card installed in the GOT, and restores the saved data to the controller if required. The system can be backed up/restored without a personal computer. Back up the setting data of a controller. CF card/USB memory Restore the saved setting data of the controller.	Chapter 11 in GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3 [SH-080863ENG]	1 сот 2 сот 3
CNC data I/O function	* The USB memory is only supported by GT16. Copies or deletes machining programs, parameters and others on the CNC connected to a GOT. CF card/USB memory Copy and deletion of CNC data * The USB memory is only supported by GT16. * Cannot be used for GT16 Handy.	Chapter 12 in GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3 [SH-080863ENG]	C CONNECTION CONNECTION
SFC monitor function	The GOT can monitor and display SFC programs of the PLC CPU in the SFC diagram format (MELSAP3 or MELSAP-L format) with a dedicated screen. With the SFC monitor function, investigating the causes of errors in PLC systems is available with the GOT.	Chapter 13 in GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3 [SH-080863ENG]	EQUIPMENT, SOFTWARE, AND MANUALS STANDARDS
Motion SFC monitor function	Monitors the motion SFC programs in the motion controller CPU (Q series) connected to the GOT and device values.	Chapter 17 in GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3 [SH-080863ENG]	GLOSSARY L EQUIF

Function	Overview	Reference
MELSEC-L troubleshooti ng function	Displays the status and errors of LCPU connected to the GOT and the GOT errors. In addition, starts the ladder monitor or others from the MELSEC-L troubleshooting screen, to perform troubleshooting and maintenance.	Chapter 15 in GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3 [SH-080863ENG]
Maintenance report function	Automatically counts the backlight energization time (number of times for holding down the touch key and writing to the built-in flash memory), the maintenance time can be indicated in two stages.	Chapter 2 in GT16 User's Manual (Basic Utility) [SH-080929ENG] Chapter 16 in GT15 User's Manual [SH-080528ENG] Chapter 17 in GT16 Handy GOT
	Maintenance time of a backlight is approaching.	Handy GOT User's Manual [JY997D41201, JY997D41202]

4. CONNECTION CONFIGURATION

The GOT1000 series can connect to various FA devices including the MITSUBISHI programmable controller.

Select a device to be connected to the GOT.

4.1	MITSUBISHI Programmable Controller
4.2	Other MITSUBISHI controllers
4.3	Third Party Programmable Controller
4.5	Microcomputer connection254
4.6	MODBUS(R) connection
4.7	Third Party Temperature Controller
4.8	Other Devices
4.9	Precautions

4. CONNECTION CONFIGURATION

4.1 MITSUBISHI Programmable Controller

4.1.1 Connection type

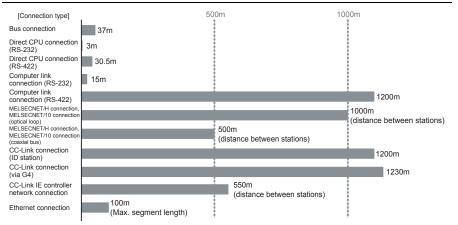
Feature of each connection type

Connection type	Feature
Bus connection	Enables the quick response with touch switches equivalent to that with push buttons.
Direct CPU connection	Enables connecting to the MELSEC-Q/L/QnA/A/FX series at the lowest cost.
Computer link connection	Enables easily connecting the GOT to a programmable controller with the serial communication.
MELSECNET/H, MELSECNET/10 connections (programmable controller to programmable controller network)	Enables using multiple GOTs as remote control terminals.
CC-Link IE controller network connection	Enables sending/receiving large size data at high speed connection.
CC-Link connection (ID)	Enables connecting the GOT as an intelligent device station in a CC-Link system.
CC-Link connection (via G4)	Enables connecting the GOT to a CC-Link system via the AJ65BT-G4-S3 or AJ65BT-R2N.
Ethernet connection	Enables the remote maintenance from offices at production sites with connecting the GOT to the Ethernet system.

Max. number of connectable GOTs for connecting to QCPU

[Connection type]	25 ur	nits 50 units	75 units	100 units	125 units	
Bus connection	5 units					
Direct CPU connection	1 unit					
Computer link connection	2 units					
MELSECNET/H connection, MELSECNET/10 connection (optical loop)	ļ.	:	63 units			
MELSECNET/H connection, MELSECNET/10 connection (coaxial bus)	i i i i i i i i i i i i i i i i i i i	31 units				
CC-Link connection (ID station)	i i i i i i i i i i i i i i i i i i i	26 units (5 units or le	ss are recommende	d for transient trans	mission.)	
CC-Link connection (via G4)	1 unit					
CC-Link IE controller network connection				÷	119 units	
Ethernet connection	*	*	· ·	I	128 units (16 units	
	•	*	*	-		nmended.)

Max. installation distance between GOT and QCPU



1

GOT

EQUIPMENT, SOFTWARE, AND MANUALS

Connectable models

		GT16/GT15/GT11							GT SoftGOT1000										GT10				
		Connection type						Connection type									Connection type						
Series	Model	Bus connection*3	Direct OPU connection	Computer link	MELSEC NET/H*1	MELSEC NET/10"1	CC-Link IE controller network *1	CC-Link (ID)*1	CC-Link (via G4)	Efhemet *1	Bus connection	USB correction Direct CPU	connection	Computer link	MELSEC NET/H	MELSEC NET/10	CC-Link IE controller network *1	OC-Link (ID)	CC-Link (via G4)	Ethernet	Direct CPU connection	Computer link	OC-Link (via G4)
	Q00JCPU										×												
MELSEC-Q series (Q mode)	Q00CPU Q01CPU		0 *4	0 *4	0	0	0	0	0			×			0	0						0	
	Q02CPU									0	0		0	0			0				0		0
	Q02HCPU Q06HCPU																			0	*4	*4	
	Q12HCPU																	×	×				
	Q25HCPU										*2												
	Q02PHCPU Q06PHCPU											0											
	Q12PHCPU																						
Redundant sustam	Q25PHCPU Q12PRHCPU																<u> </u>		<u> </u>		×	×	×
Redundant system (main base unit)	Q25PRHCPU	×	0 *4	×	0	0	0	0	0	0	×			×	0	0	0	×	×	0			
Redundant system	Q12PRHCPU	×	×	0	×	×	×	0	0	0	×	×	×	0	×	×	×	×	×	0	İ		
(extension base unit)	Q25PRHCPU	^	Ŷ	0	^	^	<u>^</u>	0	0	0	^	^	<u>^</u>	0	<u>^</u>	^	^	^	Ŷ	0			
	Q00UJCPU Q00UCPU																						
	Q01UCPU	0	0 *4		0	0	0	0	0	0	×	0	0	0	0	0	0	×					
	Q02UCPU Q03UDCPU																		×				
	Q04UDHCPU																			0	0		
	Q06UDHCPU																				*4		
	Q10UDHCPU Q13UDHCPU																						
	Q20UDHCPU			0																		0	_
	Q26UDHCPU			*4																		*4	0
	Q03UDECPU Q04UDEHCPU	0	O *4 *5		0	0	0								0	0	0		×	0			
	Q06UDEHCPU									0	×	0	×	0									
	Q10UDEHCPU							~	~												0 *4 *5		
	Q13UDEHCPU Q20UDEHCPU							0	0									×					
	Q26UDEHCPU																						
	Q50UDEHCPU Q100UDEHCPU																						
C controller	Q12DCCPU-V*6	0	0 *4 *5	0 *4 *8	0	0	0	0	0	0	×	×	×	×	×	×	×	×	×	×	0 *4 *5	0 *4 *8	0
MELSEC-QS series	QS001CPU	×	×	×	0	0	0	×	×	0	×	0	×	×	0	0	0	×	×	0	×	×	×
MELOFO L	L02CPU		0	0				-	~	_		-	0	-						_	0		
MELSEC-L series	L26CPU-BT	×	*4 *7	*4	×	×	×	0	0	0	×	0	•7	0	×	×	×	×	×	0	*4 *7	0 *4	0
MELSEC-Q series	Q02CPU-A Q02HCPU-A	×	0 *4	0	×	0	×	0	×	0	×	×	0	0	×	0	×	×	×	0	0	0	
(A mode)	Q06HCPU-A							-					Ŭ	Ĭ							*4	*4	
MELSEC-QnA	Q2ACPU Q2ACPU-S1	-																					
series	Q3ACPU-ST Q3ACPU	1										1									0 *4	0 *4	
(QnACPU type)	Q4ACPU	1	0 *4	0 *4	×	0	×	0	×	0	×	×	0										
	Q4ARCPU Q2ASCPU	0												0	×	0	×	×	×	0	×	×	1
MELSEC-QnA	Q2ASCPU-S1	1										1									0	0	
series (QnASCPU type)	Q2ASHCPU																				*4	*4	
MELSEC-A series (AnCPU type)	Q2ASHCPU-S1 A2UCPU	0	0 *4	0	×	0 ×	×	0				-	-				-		-		-		×
	A2UCPU-S1								×	0	×	×											
	A3UCPU												0	0	×								
	A4UCPU A2ACPU															0							
	A2ACPUP21																×	×	×	0	0	0	
	A2NCPUR21											1									*4		
	A2ACPU-S1 A2ACPUP21-S1 A2ACPUR21-S1																						
	A3ACPU	1										L											

Supported by GT16 and GT15 only. (GT16 Handy can be connected only through Ethernet.)
 Available only when GT 5cftGOT1000 is installed on the PC CPU module.
 Swallable only of GT15, GT16TG-QTBD0. And GT115;--GTB0A
 Available for GOT multi-drop connection. Not available for GT11 Handy.
 Sc Connect via the CCPU (R5-232) on the multiple CPU system.
 Use a model of 0120CCPU-V whose the first five digits of the serial number are 12042 or later.
 Y. LAD9-R5: required for connecting via R5-232.
 Use a C24 serial port controlled by another station in the multiple CPU system.

Connectable models

					GT16	5/GT15	/GT11							_	GT Sc	ftGOT	1000					GT10		
						nectior										ection					Conr	nectior		
Series	Model	Bus connection*3	Direct CPU connection	Computer link	MELSEC NET/H*1	MELSEC NET/10*1	CC-Link IE controller network *1	CC-Link (ID)*1	CC-Link (via G4)	Ethernet *1	Bus connection	USB correction Direct OPU	connection	Computer link	MELSEC NET/H	MELSEC NET/10	CC-Link IE controller network *1	OC-Link (ID)	CC-Link (via G4)	Ethernet	Direct CPU connection	Computer link	CC-Link (via G4)	100 2
	A3ACPUP21 A3ACPUR21 A1NCPU A1NCPUP21 A1NCPUR21 A2NCPU A2NCPUP21 A2NCPUR21 A2NCPUR21-S1 A2NCPUR21-S1 A3NCPU					×																		SOFTWARE
MELSEC-A series (AnSCPU type)	A3NCPUP21 A3NCPUR21 A2USCPU A2USCPU-S1 A2USHCPU-S1 A1SCPU	0	0 *4	0	×	0	×	0	×	0	×	×	0	0	×	0	×	×	×	0	0 *4	0		3
	A1SCPUC24-R2 A1SHCPU A2SCPU A2SCPU-S1 A2SHCPU A2SHCPU-S1					×																	×	FUNCTION
	A1SJCPU A1SJCPU-S3 A1SJHCPU																							4
	A0J2HCPU A0J2HCPUP21 A0J2HCPUR21 A0J2HCPU-DC24	0		0				0		0				0						0		0		TION RATION
MELSEC-A series	A2CCPU A2CCPUP21 A2CCPUR21 A2CCPUC24 A2CCPUC24-PRF	×	0 *4	×	×	×	×	×	×	×	×	×	0	×	×	×	×	×	×	×	0 *4	×	-	CONNECTION CONFIGURATION
	A2CJCPU-S3 A1FXCPU			×									Ē	×								×		5
	Q172CPU Q173CPU Q172CPUN Q173CPUN		0 *4	-			×														0 *4	-		EAS
Motion controller CPU (Q series)	Q172HCPU Q173HCPU Q172DCPU Q173DCPU Q172DCPU-S1 Q173DCPU-S1	0	0 *4 *5	0 *4	0	0	0	0	0	0	×	×	×	×	×	×	×	×	×	×	0 *4 *5	0 *4	0	COMPLIANCE WITH OVERSEAS STANDARDS
	Q170MCPU		0 *4									0	0	0	0	0	0			0	0 *4			6
Motion controller CPU (A series) (Large-sized type)	A273UCPU A273UHCPU A273UHCPU-S3 A373UCPU A373UCPU-S3	0	0	0	×	0	×	0	×	0	×	× × ×	× 0 ×	× 0 ×	×	× 0 ×	×	×	×	× 0 ×	×	×		T, IALS
Motion controller CPU (A series)	A171SCPU A171SCPU-S3 A171SCPU-S3 A171SCPU-S3N A171SHCPU A171SHCPUN	0	0	0	×	×	×	0	×	0	×	×	×	×	×	×	×	×	×	×	×	×	×	EQUIPMENT, SOFTWARE, AND MANUALS
(Small-sized type)	A172SHCPU A172SHCPUN A173UHCPU A173UHCPU-S1					0						×	0	0		0				0				7
MELSEC-WS series	WS0-CPU0 WS0-CPU1	×	0	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	0	×	×	
MELSECNET/H remote I/O station	QJ72LP25-25 QJ72LP25G QJ72BR15	×	0	0	×	×	×	×	×	0	×	×	0	×	×	×	×	×	×	×	×	×	×	DSSARY

Supported by GT16 and GT15 only. (GT16 Handy can be connected only through Ethernet.) Available only when GT SoftGOT1000 is installed on the PC CPU module. Available only for GT15, GT15-D_QEDQ, and GT15D_O_DEDA. Available for GOT multi-drop connection. Not available for GT11 Handy. Connect via the QCPU (R5-22) on the multiple CPU system.

*1: *2: *3: *4: *5:

1

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					GT16	/GT15/	/GT11								GT So	ftGOT	1000					GT10	
					Conr	nection	type								Conn	ection	type				Conr	nection	i type
Series	Model	Bus connection*3	Direct CPU connection	Computer link	MELSEC NET/H*1	MELSEC NET/10*1	CC-Link IE controller network *1	CC-Link (ID)*1	CC-Link (via G4)	Ethemet*1	Bus connection	USB connection Direct CPU	connection	Computer link	MELSEC NET/H	MELSEC NET/10	CC-Link IE controller network *1	CC-Link (ID)	CC-Link (via G4)	Ethemet	Direct CPU connection	Computer link	CC-Link (via G4)
CC-Link IE field network head module	LJ72GF15-T2	×	×	0	×	×	×	×	×	×	×	0	×	0	×	×	×	×	×	×	×	0	×
CNC C70	Q173NCCPU	0	0	0	0	0	0	0	0	0	×	×	0	0	0	0	0	×	×	0	×	×	×
Robot controller	CRnQ-700	0	0	0	0	0	0	0	0	0	×	×	0	0	0	0	0	×	×	0	×	×	×
Robot controller	CRnD-700	×	×	×	×	×	×	×	×	0	×	×	×	×	×	×	×	×	×	0	×	×	×
MELSEC-FX series	FX0 FX0S FX0N FX1 FX2 FX2C FX1N FX1N FX2N FX2N FX2N FX2N FX2N FX3G FX3Q	×	0 *4	×	×	×	×	×	×	×	×	×	0	×	×	×	×	×	×	×	0 *4	×	×

Supported by GT16 and GT15 only. (GT16 Handy can be connected only through Ethernet.)
 Available only when GT SoftGOT1000 is installed on the PC CPU module.
 S. Available only for GT15, GT115—Q⊒BDQ, and GT115—Q⊒BDA.
 Available for GOT multi-drop connection. Not available for GT11 Handy.

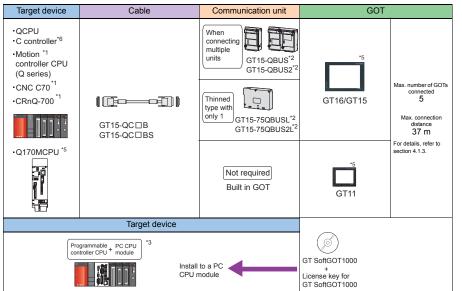
The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD
GT15	*	RS-232 connection	All the models (built-in interfaces of the GOT main unit)
0110		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD
	GT105	RS-232 or RS-422 connections	GT105Q_BD
	GT104	RS-232 or RS-422 connections	GT104Q_BD
		RS-232 connection	GT1030-L_D2/L_DW2, GT1020-L_D2/L_DW2
GT10	GT1030		GT1030-L_D/L_DW, GT1030-L_L/L_LW, GT1020-L_D/L_DW,
	GT1020	RS-422 connection	GT1020-L L/L LW
			(For GT1030-L_L/L_LW, GT1020-L_L/L_LW, MELSEC-FXCPU connection is
			available only.)

4.1.2 Bus connection

System configuration -

1) QCPU (Q mode)/C controller/Motion controller CPU (Q series)/CNC C70/Robot controller



2) QnA/ACPU/Motion controller CPU (A series)

Target device	Cable	Communication unit	GOT
• QnA/ACPU • Motion controller CPU (A series)	GT15-ACLB GT15-ACCB GT15-ACCB GT15-ACCB GT15-ACCB GT15-AISCCDB GT15-AISCCDB GT15-CCBS GT15-CCBS GT15-CCBS GT15-CCBS GT15-CCDB GT15-ACCB GT15-ACCB GT15-ACCB	When connecting multiple units Thinned type with only 1 GT15-ABUS2 ^{*4} GT15-75ABUS2 ^{*4} GT15-75ABUS2 ^{*4}	GT16/GT15 GT16/GT15 Max. number of GOTs connected 3 Max. connection distance 36.6 m For details, refer to section 4.1.3.
	GT15-C⊟EXSS-1 GT15-C⊟BS GT15-A370C⊟B-S1 GT15-A370C⊟B	Not required Built in GOT	GT11

*1: Configure the multiple CPU system.

*2: Use the GT15-QBUS(2) for mounting the following units. GT15-75QBUS(2)L is not available.

Units for the multimedia function, printer function, Video/RGB display, RGB output, function to use CF card unit/CF card extension unit, Ethernet download, gateway function, and MES interface function

For GT16, however, Ethernet download, gateway function, and MES interface function are available using the Ethernet interface. *3: Connect the PC CPU module to a programmable controller CPU on the same main base unit.

 Use the GT15-ABUS(2) for mounting the following units. GT15-75ABUS(2)L is no variable.
 Units for the multimedia function, report function, hard copy function (when printing), Video/RGB display, RGB output, CF card unit/CF card extension unit, Ethernet download, gateway function, and MES interface function

For GT16, however, Ethernet download, gateway function, and MES interface function are available using the Ethernet interface. *5: Connect to the first stage of the extension base unit (Q52B/Q55B).

*6: Use a model whose the first five digits of the serial number are 12042 or later.

GOT

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The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)
0115		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)
		RS-232 or RS-422 connections	GT115 -Q BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115 HS-Q BD

Precautions

Other precautions

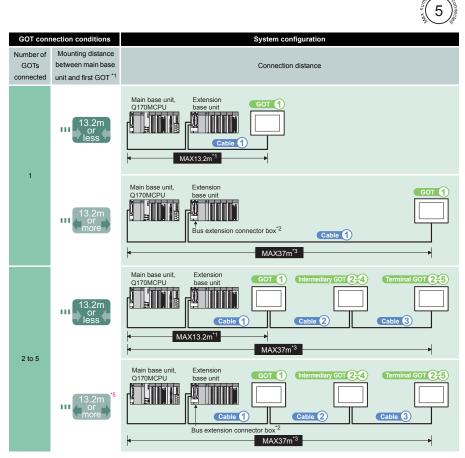
- For the cable configuration of GT15-C EXSS-1, refer to "External Dimensions" in section 1.5.
- Use the GT15-QBUS(2) or GT15-ABUS(2) for mounting units for the remote personal computer operation function, report function, hard copy function (when printing), Video/RGB display, RGB output, external I/O function, operation panel function, sound output function, multimedia function, CF card unit/CF card extension unit, Ethernet download, gateway function, and MES interface function. The GT15-75QBUS(2)L and GT15-75ABUS(2)L are not available. For GT16, however, Ethernet download, gateway function, and MES interface function are available using the Ethernet interface.
- When connecting multiple GOTs, the GOT1000 series, GOT-A900 series, GOT800 series and A77GOT cannot be connected together.
- For connecting the GOT to the multiple CPU system (Q00CPU, Q01CPU, Q02CPU, Q02HCPU, Q06HCPU, Q12HCPU, and Q25HCPU), use CPUs with the function version B or later.
- When connecting to Q00JCPU or Q00UJCPU of MELSEC-Q series (Q mode)
 When using the bus extension connector box, mount it on the extension base unit. (The bus extension connector box cannot be mounted on the main base unit.)
- When connecting to Q4ARCPU of MELSEC-QnA series (QnACPU type) For the redundant Q4ARCPU system, connect the GOT to redundant extension base unit A68RB (version B or later) at the last stage via the bus connection.
- When connecting to A1SJCPU, A1SJCPU-S3, and A1SJHCPU of MELSEC-A series (AnSCPU type) When using the extension base unit, the bus connection is disabled.
- When connecting to motion controller CPU (Q series)
 - For Q172CPU or Q173CPU Use the motion controller CPU with the following production numbers. Q172CPU with K****** or later, Q173CPU with J****** or later
 For Q172 or Q173CPU
 - For using the SV13, SV22, and SV43, use a motion controller with the following OS installed. SW6RN-SV13Q : 00E or later, SW6RN-SV22Q : 00E or later, SW6RN-SV43Q : 00B or later • For Q172CPUN or Q173CPUN
 - For using the SV13, SV22, and SV43, use a motion controller with the following OS installed. SW6RN-SV13Q: 00H or later, SW6RN-SV22Q: 00H or later, SW6RN-SV43Q: 00B or later
- When connecting to motion controller CPU (A series) (small-sized type) When using the extension base unit, use the A168B.
- For other precautions for the bus connection, refer to "Details of bus connection" in section 4.1.3.

Related Manuals		
 For details of system configuration and connection cable 		
 For precautions and restrictions 	\geq	Chapter 5 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)
 For outlined procedure and checking of bus connection 	-	
For the accessible range that can be monitored by GOT	\triangleright	Chapter 3 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller. 1

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When connecting to QCPU (Q mode)/motion controller CPU (Q series)



*1: When the extension base unit is used, the extension cable length (between the base units) is included.

For the cable between the main base unit and extension base unit, refer to Mitsubishi Programmable Logic Controller MELSEC-Q (Catalog) (L(NA)-08033E). *2: When the first GOT is installed 13.2m or more away from the main base unit, the bus extension connector box is required.

12: When the trist (OI) is installed 13.2m or more away from the main base unit, the bus extension connector hox is required. Without the extension base unit. Nound the bus extension connector hox to the main base unit. With the extension base unit. Nound the bus extension connector hox to the tast stage of the extension base unit. (The bus extension connector box cut be main base unit when a GOT is connected to 000.2CPU. Nound the bus extension base unit.) '3: Select a cable to keep the total cable length between the main mase unit of a programmable controller and a terminal GOT within 37m. '4: Indication of cable model (scample) "0115-0CI B 60 min -GIT15-0COB 60 min -GIT15-0CI 60 min -GIT15-0CI 80 mi

*5: There are the following restrictions depending on the total cable length when three or more GOTs are connected. Use the same power supplies of a programmable controller and all GOTs and turn on or off all the power supplies simultaneously.

			O: Unrestricter	d 🛆: Restricted
Number of GOTs		Total cat	ole length	
connected	15m or less	20m or less	25m or less	37m or less
2 or less	0	0	0	0
3	0	0	0	
4	0	0		
5	0			
se the GT15-QBUS(2) for	mounting the followin	g units. GT15-75QBL	JS(2)L is not available	e.

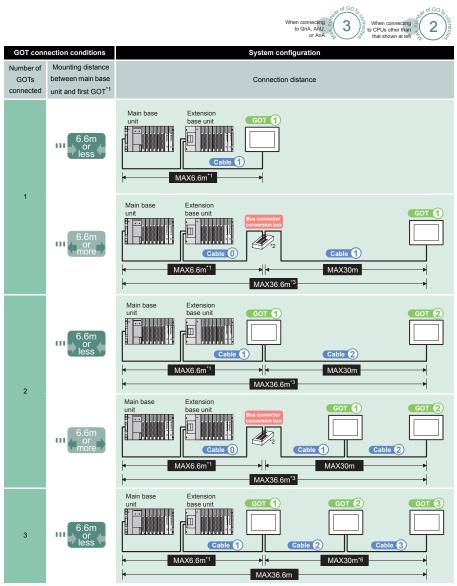
*6: Use the GT15-QBUS(2) for mounting the following units. GT15-75QBUS(2)L is not available. Units for the multimedia function, Video/RQB display, RQB output, report function, hard copy function (when printing), Ethernet download, gateway function, MES interface function, CF card unit, and CF card extension

unit For GT16, however, Ethernet download, gateway function, and MES interface function are available using the Ethernet interface. *7: The bus connection unit is not required for GT115[] (dedicated to the bus connection).

Bus extension connector box	Cable	1 GO] *4 [T 1	Cable 2		Bus		3 Termi Got]*4	nal 2~5
		GOT main unit	connection unit		GOT main unit	connection unit *6		GOT main unit	connection unit
	GT15-02CDB 06:0.6m 12:1.2m 30:3m 50:5m 100:10m	15" GT1695 15" GT1595 12.1" GT1595 12.1" GT1595 10.4" GT157 8.4" GT157 8.4" GT156 5.7" GT155 5.7" GT155 7" ((decicated to bus connection)	GT15-75QBUSL GT15-75QBUS2L GT15-7QBUS2 GT15-QBUS2 GT15-QBUS2						
A9GT-QCNB	GT15-QC[]B 06:0.6m 12:1.2m 30:3m 50:5m 100:10m GT15-QC[]BS 150:15m 200:20m 250:25m 300:30m 350:35m	15" GT1695 12" GT1595 12.1" GT1585 10.4" GT157 8.4" GT167 8.4" GT166 5.7" GT155 5.7" GT15-75QBUSL GT15-75QBUS2L GT15-QBUS GT15-QBUS GT15-QBUS2							
	GT15-QC□B 06:0.6m 12:1.2m 30:3m 50:5m 100:10m	15" GT1695 12" GT1595 12.1" GT1685 12.1" GT1685 10.4" GT167 10.4" GT157 8.4" GT168 8.4" GT157 5.7" GT155	GT15-75QBUS2L GT15-QBUS2	GT15-QC□B 06:0.6m 12:1.2m 30:3m 50:5m 100:10m GT15-QC□BS 150:15m 200:20m 250:25m 300:30m 350:35m	15° GT1895 15° GT1595 12.1° GT1595 12.1° GT1585 10.4° GT157 10.4° GT157 8.4° GT166 8.4° GT156 5.7° GT155	GT15-75QBUS2L GT15-QBUS2	GT15-QC[]B 06:0.6m 12:1.2m 30:3m 50:5m 100:10m GT15-QC[]BS 150:15m 200:20m 250:25m 300:30m 350:35m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1685 10.4" GT157 0.4" GT157 8.4" GT166 8.4" GT156 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT155	GT15-750BUSL GT15-750BUS2L GT15-QBUS GT15-QBUS GT15-QBUS2
A9GT-QCNB	GT15-QCCIB 06:0.6m 12:12m 30:3m 50:5m 100:10m GT15-QCCIBS 150:15m 150:15m 150:25m 300:30m 350:35m	15" GT1695 15" GT1585 12.1" GT1685 12.1" GT1685 10.4" GT167 10.4" GT167 8.4" GT168 8.4" GT166 8.4" GT156 5.7" GT155	GT15-750BUS2L GT15-0BUS2	GT15-QC⊟B 06:0.6m 12:1.2m 30:3m 50:5m 100:10m GT15-QCCBS 150:15m 200:20m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1685 12.1" GT1685 10.4" GT167 10.4" GT157 8.4" GT166 8.4" GT166 5.7" GT155	GT15-750BUS2L GT15-QBUS2	GT15-QCCIB 06:0.6m 12:1.2m 30:3m 50:5m 100:10m GT15-QCCIBS 150:15m 200:20m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1685 12.1" GT1685 10.4" GT167 10.4" GT157 8.4" GT166 8.4" GT166 5.7" GT165 5.7" GT155 5.7" GT155 5.7" GT155	GT15-750BUS2L GT15-750BUS2L GT15-0BUS GT15-0BUS2

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When connecting to QnACPU type or AnCPU type



*1: When the extension base unit is used, the extension cable length (between the base units) is included.

For the cable between the main base unit and extension base unit, refer to Mitsubishi Programmable Logic Controller MELSEC-Q (Catalog) (L(NA)-08033E). When the first GOT is installed 6.6m or more away from the main base unit, the bus connector conversion box is required.

*2: Select a cable to keep the total cable length between the main base unit of a programmable controller and a terminal GOT within 36.6m.
 For GT15-C EXSS-1

Tof G110-LEXS-1
 Consisting of G15-EXCNB (0.5m) and GT15-C BS (10 to 30m).
 When calculating the cable length, use GT15-C100EXSS-1 (10m), GT15-C200EXSS-1 (20m), and GT15-C300EXSS-1 (30m).
 Connect concetors as shown below.
 Connector "COMI" – Programmable controller Connector "COMI" – Programmable controller

	Bus connection b		① GOT 5 · □	1	Cable 2) G0 5 -		Cable 3	GO ^T	3	бот
			GOT main unit	Bus connection unit ^{*7}		GOT main unit	Bus connection unit ^{*7}		GOT main unit	Bus connection unit ^{*7}	_ق
		GT15-CINB 12:12m 30:3m 50:5m	15° GT1695 15° GT1595 12.1° GT1685 12.1° GT1685 10.4° GT167 10.4° GT157 8.4° GT166 8.4° GT166 5.7° GT155 5.7° GT155 5.7° GT155 5.7° GT155	GT15-75ABUSL GT15-75ABUS2 GT15-ABUS2 GT15-ABUS2							SOFTWARE
GT15-AC⊟B 06:0.6m 12:1.2m 30:3m 50:5m	A7GT-CNB	GT15-CD EX8S-1 100:10m 200:20m 300:30m	15" GT1695 15" GT1695 12.1" GT1685 12.1" GT1685 10.4" GT167 10.4" GT167 10.4" GT157 8.4" GT166 8.4" GT166 5.7" GT165 5.7" GT155 5.7" GT155	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS GT15-ABUS2							
		GT15-C⊡NB 12:12m 30:3m 50:5m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1685 10.4" GT167 10.4" GT157 8.4" GT166 8.4" GT166 8.4" GT165 5.7" GT155	GT15-75ABUS2L GT15-ABUS2	GT15-[]BS 07:0.7m 12:12m 30:3m 50:5m 100:10m 200:20m 300:30m	15° GT 1695 15° GT 1595 12.1° GT 1585 10.4° GT 157 10.4° GT 157 8.4° GT 166 8.4° GT 156 5.7° GT 155 5.7° GT 155 5	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS GT15-ABUS2				CONNECTION CONFIGURATION
GT15-ACCIB 06:0.6m 12:1.2m 30:3m 50:5m	A7GT-CNB	GT15-CD EXSS-1 100 : 10m 200 : 20m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1685 10.4" GT167 10.4" GT157 8.4" GT166 8.4" GT166 5.7" GT155	GT15-75ABUS2L GT15-ABUS2	GT15-CEBS 07:0.7m 12:1.2m 30:3m 50:5m 100:10m 200:20m	15" GT1695 15" GT1595 12.1" GT1685 12.4" GT167 10.4" GT167 10.4" GT167 8.4" GT166 5.7" GT155 5.7" GT155 5	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2				COMPLIANCE WITH OVERSEAS
		GT15-CEINB 12:12m 30:3m 50:5m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1685 10.4" GT167 10.4" GT157 8.4" GT166 8.4" GT166 5.7" GT155	GT15-75ABUS2L GT15-ABUS2	GT15-C_BS 07:07m 12:12m 30:3m 50:5m 100:10m 200:20m	15" GT 1695 15" GT 1595 12.1" GT 1685 12.1" GT 1685 10.4" GT 157 8.4" GT 166 8.4" GT 166 5.7" GT 155	GT15-75ABUS2L GT15-ABUS2	GT15-CEBS 07:07m 12:12m 30:3m 50:5m 100:10m 200:20m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1685 10.4" GT157 8.4" GT167 8.4" GT166 8.4" GT166 5.7" GT155 5.7" GT155 5	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2 GT15-ABUS2	L EQUIPMENT, SOFTWARE, AND MANILALS

*5: Indication of cable model (example) *GT15-AC⊡B 060.6m* → GT15-AC06B *6: Select a cable to keep the total cable length within 30m. *7: Use the GT15-ABUS(2) for mounting the following units. GT15-75ABUS(2)L is not available. Units for the multimedia function, Video/RGB display, RGB output, report function, hard copy function (when printing), Ethernet download, gateway function, MES interface function, CF card unit, and OF card extension unit For GT16, however, Ethernet download, gateway function, and MES interface function are available using the Ethernet interface. *6: The bus connection unit is not required for GT115D (delicated to the bus connection).

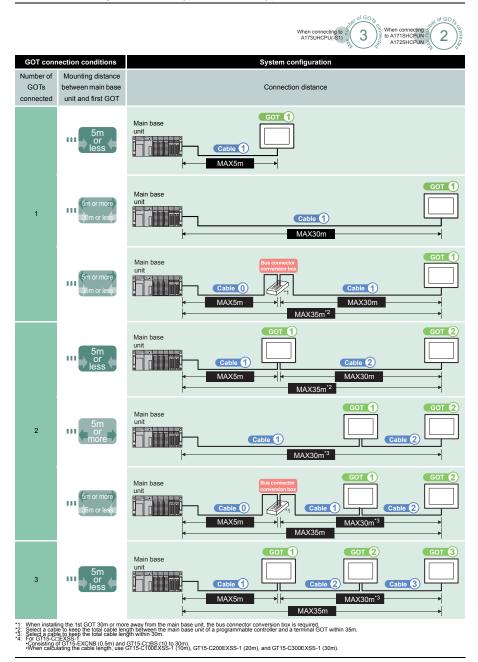
4.1 MITSUBISHI Programmable Controller 4.1.3 Details of bus connection

WITH OVERSEAS STANDARDS

SOFTWARE, AND MANUALS

GLOSSARY

When connecting to QnASCPU type or AnSCPU type without the extension base unit

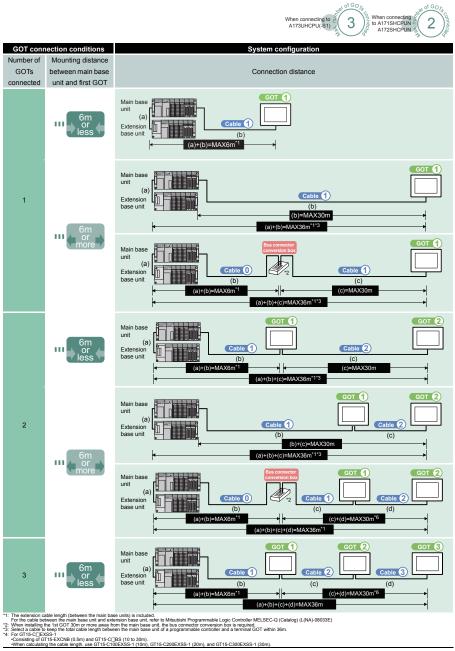


[])—([];			□ ⁵ [<u> </u>	<u>_</u>			C	┣━┫		1	GOT
			GOT main unit	Bus connection unit ^{*6}		GOT main unit	Bus connection unit ^{*6}		GOT main unit	Bus connection unit ^{*6}	2
		GT15-A1SC⊟B 07:0.7m 12:1.2m 30:3m 50:5m	15" GT1695 15" GT1695 12.1" GT1685 12.1" GT1685 10.4" GT167 8.4" GT166 8.4" GT166 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT155	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2							SOFTWARE
		GT15-C EXSS-1 100 : 10m 200 : 20m 300 : 30m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1685 10.4" GT167 10.4" GT157 8.4" GT166 8.4" GT156 5.7" GT155	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2							3
3T15-A1SC∐NB D5 : 0.45m D7 : 0.7m 30 : 3m 50 : 5m	A7GI-CNB	GT15-C EXSS-1 100 : 10m 200 : 20m 300 : 30m	5.7" GT115[] "7 (secate bus consider) 15" GT 1695 12.1" GT1685 12.1" GT1685 10.4" GT167[] 10.4" GT167[] 8.4" GT166[] 8.4" GT156[]	GI 15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2							
		GT15-A1SC⊟B 07:0.7m 12:1.2m 30:3m 50:5m	5.7" GT1555 5.7" GT1555 5.7" GT1555 15" GT1595 15" GT1595 12.1" GT1695 12.1" GT1685 12.1" GT1685 10.4" GT167 10.4" GT157	GI 15-75ABUS2L GT15-ABUS2	GT15-C□BS 07:0.7m 12:1.2m 30:3m 50:5m 100:10m 200:20m	15" GI 1695 15" GT 1595 12.1" GT 1685 12.1" GT 1685 10.4" GT 167 10.4" GT 157	GI 15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2				CONNECTION
			8.4" GT166 8.4" GT156 5.7" GT155		200 : 20m 300 : 30m	8.4* GT166 8.4* GT156 5.7* GT155 5.7* GT115 *7 (dedicated to bus correction)					5
		GT15-C EXSS-1 100 : 10m 200 : 20m	15" GT1695 15" GT1595 12.1" GT1585 12.1" GT1685 10.4" GT167 10.4" GT157 8.4" GT166 8.4" GT166 5.7" GT155	GT15-75ABUS2L GT15-ABUS2	GT15-C∐BS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15" GT 1695 15" GT 1595 12.1" GT 1595 12.1" GT 1585 10.4" GT 157 8.4" GT 166 8.4" GT 166 5.7" GT 155 5.7" GT 155 5.7" GT 155 5.7" GT 155	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2				COMPLIANCE WITH OVERSEAS
GT15-A1SC⊡NB D5 : 0.45m D7 : 0.7m 30 : 3m 50 : 5m	A7GT-CNB	GT15-C EXSS-1 100 : 10m 200 : 20m	15" GT1695 15" GT1595 12.1" GT1585 12.1" GT1685 12.1" GT1685 10.4" GT167 10.4" GT157 8.4" GT166 8.4" GT166 5.7" GT155	GT15-75ABUS2L GT15-ABUS2	GT15-C_BS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15° GT 1995 15° GT 1995 12.1° GT 1585 12.1° GT 1585 12.4° GT 167 10.4° GT 167 8.4° GT 166 8.4° GT 166 5.7° GT 155 5.7° GT 155	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2 GT15-ABUS2				equipment, software,
		GT15-A1SCIIB 07:0.7m 12:1.2m 30:3m 50:5m	15" GI 1695 15" GT 1595 12.1" GT 1685 12.1" GT 1685 10.4" GT 167 10.4" GT 157 8.4" GT 166 8.4" GT 156 5.7" GT 155	GI 15-75ABUS2L GT15-ABUS2	GT15-C[]BS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15" GI 1695 15" GI 1595 12.1" GI 1685 12.1" GI 1685 10.4" GI 167 10.4" GI 157 8.4" GI 166 8.4" GI 156 5.7" GI 155	GI15-75ABUS2L GT15-ABUS2	GT15-CCIBS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15" G11595 15" G11595 12.1" G11685 12.1" G11685 10.4" G1167 10.4" G1157 8.4" G1166 8.4" G1156 5.7" G1155	GI 15-75ABUSL GT 15-75ABUS2L GT 15-ABUS GT 15-ABUS2	ଞ୍ଚ ଚ 7

*5: Indication of cable model (example) *0116-A1SC/DNB 050.46m⁻¹ ~ GT15-A1SC/DNB *0: Use the GT15-ABUS2) for monuting the following units. GT15-754BUS2(L): is not available. Units for the multimedia function, Video/RCB display, RCB output, report function, hard copy function (when printing), Ethernet download, gateway function, MES interface function, CF card unit, and CF card extension unit For GT16, however, Ethernet download, gateway function, and MES interface function are available using the Ethernet Interface.

WITH OVERSEAS STANDARDS 6

When connecting to QnASCPU type or AnSCPU type with the extension base unit



— [] ⁵			1 ⁵ [*5 -]			<u>]</u>	
		GT15-A1SC□B 07:0.7m 12:12m 30:3m 50:5m	GOT main unit 15° GT1695 12.1° GT1595 12.1° GT1595 12.1° GT1585 10.4° GT167 10.4° GT157 8.4° GT166 8.4° GT165 5.7° GT155 5.7° GT155 5.7° GT155	Bus connection unit ^{*7} GT15-75ABUSL GT15-ABUS2 GT15-ABUS2		GOT main unit	Bus connection unit ^{*7}		GOT main unit	Bus connection unit ^{*7}	
		GT15-C EXSS-1 100 : 10m 200 : 20m 300 : 30m	(for bus	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2 GT15-ABUS2							
5-A1SC[]NB 0.45m 0.7m 3m 5m	A7GT-CNB	GT 15-C EXSS-1 100 : 10m 200 : 20m 300 : 30m	(for bus connection) 15° GT1695 12.1° GT1695 12.1° GT1695 12.1° GT1685 10.4° GT167 10.4° GT167 8.4° GT166 8.4° GT156 5.7° GT155	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2 							2
		GT15-A1SC⊟B 07:0.7m 12:1.2m 30:3m 50:5m	(for bus connection) 15° G11695 15° G11695 12.1° G11685 12.1° G11685 10.4° G1167 10.4° G1167 8.4° G1166 8.4° G1166 5.7° G1155	G115-75ABUS2L GT15-ABUS2 	GT15-C[]BS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m 300 : 30m	15" GI 1695 15" GT 1595 12.1" GT 1685 12.1" GT 1685 10.4" GT 167 10.4" GT 167 10.4" GT 167 8.4" GT 166 5.7" GT 155 5.7" GT 155 5.7" GT 155	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2 GT15-ABUS2				CONNECTION
		GI 15-C EXSS-1 100 : 10m 200 : 20m	15" GT1695 15" G11595 12.1" GT1685 12.1" GT1585 10.4" GT167 10.4" GT167 8.4" GT156 8.4" GT156 5.7" GT155	GT15-75ABUS2L GT15-ABUS2	GT15-C[]BS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	connection) 15° GT (695 15° GT 1695 12.1° GT 1695 12.1° GT 1685 10.4° GT 167 8.4° GT 166 8.4° GT 166 5.7° GT 155 5.7° GT 155 (for bus connection)	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS GT15-ABUS2				COMPLIANCE
5-A1SC⊟NB 0.45m 0.7m 3m 5m	A7GT-CNB	GT15-CC EXSS-1 100 : 10m 200 : 20m	15" GT1695 15" GT1595 12.1" GT1595 12.1" GT1885 10.4" GT167 10.4" GT157 8.4" GT166 8.4" GT166 5.7" GT155	GT15-75ABUS2L GT15-ABUS2	GT15-C⊟BS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15" GT 1695 15" GT 1595 12.1" GT 1595 12.1" GT 1585 10.4" GT 157 10.4" GT 167 8.4" GT 166 8.4" GT 166 5.7" GT 156 5.7" GT 156	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2				FOLIIPMENT
		GT15-A1SC⊟B 07:0.7m 12:1.2m 30:3m 50:5m	15" GI 1695 15" GI 1595 12.1" GI 1685 12.1" GI 1685 10.4" GT 167 10.4" GT 157 8.4" GT 156 8.4" GT 156 5.7" GT 155	GI 15-75ABUS2L GT 15-ABUS2	GT15-CEBS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	Sire bus connection) 15" GI 1695 12.1" GI 1685 12.1" GI 1685 12.1" GI 1685 10.4" GI 167 10.4" GI 167 8.4" GI 166 5.7" GI 155	GI15-75ABUS2L GT15-ABUS2	GT15-CLBS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15° G1 1895 15° G1 1595 12.1° G1 1885 12.1° G1 1885 10.4° G1 157 10.4° G1 157 8.4° G1 156 5.7° G1 155 5.7° G1 155	GI 15-75ABUSL GT 15-75ABUS2L GT 15-ABUS GT 15-ABUS GT 15-ABUS2	EO

7: Use the CT15-ABUS[2] for mourting the following units. CT15/75ABUS[2]. Is not available. Units for the multimed a hundlow, VBACRB display, vegot function, hand copy function (when printing). Ethernet down For GT16, however, Ethernet download, gateway function, and MES Interface function are available using the Ethernet interface. 8: The bus commention unit is not equal for GT1512 (detailed to the bus connection). n, CF card unit, and CF card extension ad, ga n, MES inte

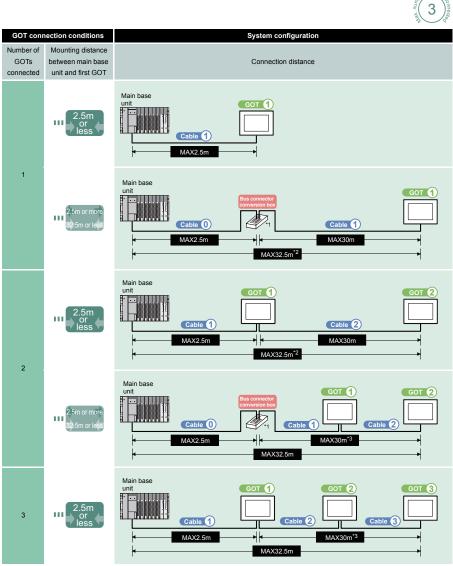
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WITH OVERSEAS STANDARDS

SOFTWARE, AND MANUALS

When connecting to motion controller CPU (A273UCPU, A273UHCPU(-S3), A373UCPU(-S3)) without the extension base unit

of GO



*1: When installing the 1st GOT 30m or more away from the main base unit, the bus connector conversion box is required.

Select a cable to keep the total cable length between the main base unit of a programmable controller and a terminal GOT within 32.5m.
 Select a cable to keep the total cable length within 30m.

Conclusion of Conclusion of the Conclusion of

	Bus conne conversion	ctor box	() G G G	от ()		GO ⁻		Cable 3	GOT	3	GOT
			GOT main unit	Bus connection unit ^{*6}		GOT main unit	Bus connection unit ^{*6}		GOT main unit	Bus connection unit ^{*6}	2
		GT15-A370C⊟B- S1 12 : 1.2m 25 : 2.5m	15" GT1595 12.1" GT1685 12.1" GT1585 10.4" GT167□ 10.4" GT157□ 8.4" GT166□ 8.4" GT156□	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2 GT15-ABUS2							SOFTWARE
GT15-A370C□ 12 : 1.2m 25 : 2.5m	3 A7GT-CNB	EXSS-1	5.7" GT155 5.7" GT115 '7 (dedicated to bus connection) 15" GT1695 15" GT1595 12.1" GT1685	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS							3
		100 : 10m 200 : 20m 300 : 30m	12.1" GT1585 10.4" GT167 10.4" GT167 8.4" GT166 8.4" GT166 8.4" GT156 5.7" GT155	_ GT15-ABUS2 - - - - -							FUNCTION
			5.7" GT115 "7 (dedicated to bus connection)	-							4 z
		GT15-A370C[]B- S1 12 : 1.2m 25 : 2.5m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1685 10.4" GT167 10.4" GT167 8.4" GT166 8.4" GT156	GT15-75ABUS2L GT15-ABUS2	GT15-C□BS 07:0.7m 12:1.2m 30:3m 50:5m 100:10m 200:20m 300:30m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1685 10.4" GT167 10.4" GT167 8.4" GT167 8.4" GT166 8.4" GT156	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2 GT15-ABUS2				CONNECTION CONFIGURATION
			5.7" GT155	-		5.7* GT155 5.7* GT115 *7 (dedicated to bus connection)	-				5
GT15-A370C⊟ 12 : 1.2m 25 : 2.5m	3 A7GT-CNB	GT15-C EXSS-1 100 : 10m 200 : 20m	15" GT1695 15" GT1595 12.1" GT1585 12.1" GT1585 10.4" GT167 10.4" GT157 8.4" GT166	GT15-75ABUS2L GT15-ABUS2 	GT15-C∐BS 07:0.7m 12:1.2m 30:3m 50:5m 100:10m 200:20m	15" GT1695 15" GT1595 12.1" GT1585 12.1" GT1685 12.1" GT1585 10.4" GT167 10.4" GT157 8.4" GT166	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2 GT15-ABUS2				COMPLIANCE WITH OVERSEAS STANDARDS
			8.4" GT156 5.7" GT155	=		8.4" GT156 5.7" GT155 5.7" GT115 '7 (dedicated to bus connection)	-				6
		GT15-A370C∐B- S1 12 : 1.2m 25 : 2.5m	15" GT1595 12.1" GT1685 12.1" GT1585 10.4" GT157 10.4" GT157	GT15-75ABUS2L GT15-ABUS2 - - - -	GT15-C□BS 07:0.7m 12:1.2m 30:3m 50:5m 100:10m 200:20m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1685 12.1" GT1685 10.4" GT167 10.4" GT157	GT15-75ABUS2L GT15-ABUS2	GT15-C[]BS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1685 10.4" GT167[] 10.4" GT167[]	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2	EQUIPMENT, SOFTWARE, AND MANUALS
			8.4" GT166	-		8.4* GT166	-		8.4" GT166 8.4" GT156 5.7" GT155 5.7" GT155 '7 (dedicated to bus connection)	-	7 ≻

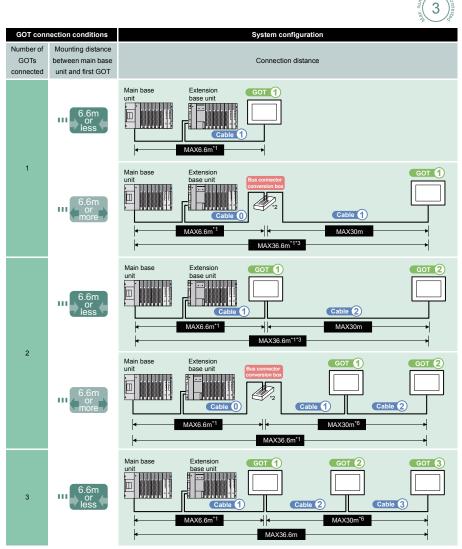
5: Indication of cable model (example) '0T15-A1SC_INB 05: 0.45m⁺--IGT15-A1SC05NB
 7: Use the GT15-AABUS(2) for mounting the following units. GT15-F7ABUS(2)L is not available.
 Units for the multimedia function. VideorROB display, ROB output: report function, hard copy function (when printing). Ethernet download, gateway function, CF card unit, and CF card extension unit
 For GT16, however, Ethernet download, gateway function, and MES interface function are available using the Ethernet interface.
 7: The bus connection unit is not required for GT115C (dedicated to the bus connection).

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When connecting to motion controller CPU (A273UCPU, A273UHCPU(-S3), A373UCPU(-S3)) with the extension base unit

of GO



*1: The extension cable length (between the main base units) is included.

For the cable between the main base unit and extension base unit, refer to Mitsubishi Programmable Logic Controller MELSEC-Q (Catalog) (L(NA)-08033E) *2: When installing the 1st GOT 30m or more away from the main base unit, the bus connector conversion box is required.

*3: Select a cable to keep the total cable length between the main base unit of a programmable controller and a terminal GOT within 36.6m.

*4: For GT15-C EXSS-1

Consisting of GT15-EXCNB (0.5m) and GT15-CIIBS (10 to 30m).
 When calculating the cable length, use GT15-C100EXSS-1 (10m), GT15-C200EXSS-1 (20m), and GT15-C300EXSS-1 (30m).

Cable 0	Bus connect conversion to	Cable			Cable 2) GOT '5 -	2	Cable 3	GC	σ 3
		GT15-C⊡NB 12:1.2m 30:3m 50:5m	GOT main unit 15° GT 1695 12.1° GT 1595 12.1° GT 1585 10.4° GT 157 10.4° GT 157 8.4° GT 156 5.7° GT 155 5.7° GT 15	Bus connection unit ⁷ GT15-75ABUSL GT15-75ABUS2L GT15-ABUS2 GT15-ABUS2		GOT main unit	Bus connection unit ⁷		GOT main unit	Bus connection unit ^{*7}
GT15-AC[]B 06 : 0.6m 12 : 1.2m 30 : 3m 50 : 5m	A7GT-CNB	GT15-CC EXSS-1 100 : 10m 300 : 30m	connection) 15° GT1695 15° GT1695 12.1° GT1685 12.4° GT167 10.4° GT157 8.4° GT156 8.4° GT156 5.7° GT155 5.7° GT155 (for bus connection)	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2 GT15-ABUS2						
		GT15-C⊡NB 12:12m 30:3m 50:5m	15" GT1695 15" GT1595 12.1" GT1585 12.1" GT1585 10.4" GT157 10.4" GT157 8.4" GT166 8.4" GT166 5.7" GT155	GT15-75ABUS2L GT15-ABUS2	GT15-C[]BS 07:0.7m 12:1.2m 30:3m 50:5m 100:10m 200:20m 300:30m	15" GT1695 15" GT1695 12.1" GT1685 12.1" GT1585 10.4" GT167 8.4" GT167 8.4" GT166 8.4" GT166 5.7" GT155 5.7" GT155 5	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS GT15-ABUS2			
GT15-AC[]B 06 : 0.6m 12 : 1.2m 30 : 3m 50 : 5m	A7GT-CNB	GT15-CD EXSS-1 100 : 10m 200 : 20m	15" GT1695 15" GT1595 12.1" GT1585 12.1" GT1685 10.4" GT167 10.4" GT167 8.4" GT166 8.4" GT166 5.7" GT155	GT15-75ABUS2L GT15-ABUS2	GT15-CCIBS 07:0.7m 12:1.2m 30:3m 50:5m 100:10m 200:20m	15" GT 1695 15" GT 1595 12.1" GT 1585 12.1" GT 1585 10.4" GT 157 8.4" GT 166 8.4" GT 156 5.7" GT 155 5.7" GT 155 5.7" GT 115 10 Jack Connection	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2			
		GT15-CCINB 12:12m 30:3m 50:5m	15" GT 1695 15" GT 1595 12.1" GT 1585 12.1" GT 1685 10.4" GT 157 10.4" GT 157 8.4" GT 156 5.7" GT 155	GT15-75ABUS2L GT15-ABUS2	GT15-C[]BS 07:07m 12:12m 30:3m 50:5m 100:10m 200:20m	15° GT 1695 15° GT 1595 12.1° GT 1585 12.1° GT 1685 10.4° GT 157 8.4° GT 157 8.4° GT 156° 1 5.7° GT 155	GT15-75ABUS2L GT15-ABUS2	GT15-CEBS 07:07m 12:12m 30:3m 50:5m 100:10m 200:20m	15' GT1695 15' GT1695 12.1' GT1685 12.1' GT1685 10.4' GT167[] 10.4' GT167[] 8.4'' GT166[] 8.4'' GT166[] 5.7' GT115[] 5.7' GT115[] Gr bus connection]	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2

*5: Indication of cable model (example) "GT15-A1SC_INB 05:0.45m" – GT15-A1SC05NB *6: Select a cable to keep the total cable length within 30m. *7: Use the GT15-ABUS(2) for mounting the following units. GT15-75ABUS(2)L is not available. Units for the multimedia function, VideorRGB display, RGB output, report function, hard copy function (when printing), Ethernet download, gateway function, MES interface function, CF card unit, and OF card extension unit For GT16, however, Ethernet download, gateway function, and MES interface function are available using the Ethernet interface. *6: The bus connection unit is not required for GT115_((deficiated to the bus connection).

1

GOT 2

SOFTWARE

CONNECTION CONFIGURATION **A** FUNCTION

5

COMPLIANCE WITH OVERSEAS STANDARDS

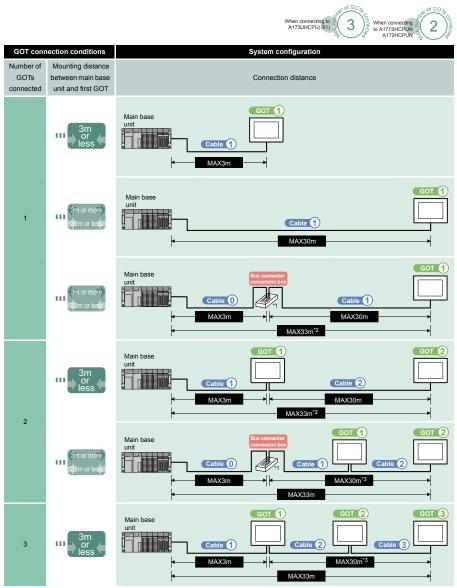
6

EQUIPMENT, SOFTWARE, AND MANUALS

7

GLOSSARY

When connecting to motion controller CPU (A171SHCPUN, A172SHCPUN, A173UHCPU(-S1)) without the extension base unit



*1: When installing the 1st GOT 30m or more away from the main base unit, the bus connector conversion box is required.
*2: Select a cable to keep the total cable length between the main base unit of a programmable controller and a terminal GOT within 33m.

*3: Select a cable to keep the total cable length within 30m.
 *4: For GT15-C_EXSS-1

Consisting of GT15-EXCNB (0.5m) and GT15-C_BS (10 to 30m).
 When calculating the cable length, use GT15-C100EXSS-1 (10m), GT15-C200EXSS-1 (20m), and GT15-C300EXSS-1 (30m).

Cable ()	Bus connection l	tor Cable	() () () () () () () () () ()	ют 1	Cable	G 0	· 2 (Cable 3) GO	T 3	GOT
			GOT main unit	Bus connection unit ^{*6}		GOT main unit	Bus connection unit ^{*6}		GOT main unit	Bus connection unit ^{*6}	2
		GT15-A1SC⊟B 07:0.7m 12:1.2m 30:3m 50:5m	15° GT1695 15° GT1695 12.1° GT1685 12.1° GT1685 10.4° GT167 10.4° GT167 8.4° GT166 8.4° GT166 5.7° GT155 5.7° GT155 5.7° GT155	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2							SOFTWARE
		GT15-C EXSS-1 100 : 10m 200 : 20m 300 : 30m	15° GI 1695 15° GT1595 12.1° GT1595 12.1° GT1685 12.1° GT1685 10.4° GT167 8.4° GT166 8.4° GT166 5.7° GT155 5.7° GT157	GI 15-75ABUSL GT 15-75ABUS2L GT 15-ABUS GT 15-ABUS2							FUNCTION
GT15-A1SC□NB 05 : 0.45m 07 : 0.7m 30 : 3m	A7GT-CNB	GT15-C EXSS-1 100 : 10m	15" GT 1695 15" GT 1595 12.1" GT 1585 12.1" GT 1585	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2							4
50 : 5m		200 : 20m 300 : 30m	10.4" GT167 10.4" GT157 8.4" GT156 8.4" GT156 5.7" GT155 5.7" GT155 5.7" GT155 (dedicated to bus connection)								CONNECTION CONFIGURATION
		GT15-A1SC⊟B 07:0.7m 12:1.2m 30:3m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1585	GT15-75ABUS2L GT15-ABUS2	GT15-C□BS 07:0.7m 12:1.2m 30:3m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1585	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2				5
		50 : 5m	10.4" GT167 10.4" GT157 8.4" GT166 8.4" GT156 5.7" GT155		50 : 5m 100 : 10m 200 : 20m 300 : 30m	10.4* GT167 10.4* GT157 8.4* GT156 8.4* GT156 5.7* GT155 5.7* GT155 (dedicated to bus connection)	-				COMPLIANCE WITH OVERSEAS
GT15-A1SC□NB 05:0.45m 07:0.7m 30:3m	A7GT-CNB	GT15-C EXSS-1 100 : 10m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1585	GT15-75ABUS2L GT15-ABUS2	GT15-C⊟BS 07 : 0.7m 12 : 1.2m 30 : 3m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1585	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2				
30 : 3m 50 : 5m		200 : 20m	10.4" GT167 10.4" GT157 8.4" GT166 8.4" GT156 5.7" GT155		50 : 5m 100 : 10m 200 : 20m	10.4* GT167 10.4* GT157 8.4* GT156 8.4* GT156 5.7* GT155 5.7* GT155 (dedicated to bus connection)	-				PMENT, WARE, MANILALS
		GT15-A1SC∐B 07:0.7m 12:1.2m 30:3m 50:5m	15" GT1695 15" GT1695 12.1" GT1685 12.1" GT1685 10.4" GT167 10.4" GT157 8.4" GT156 5.7" GT155 5.7" GT155	GT15-75ABUS2L GT15-ABUS2	GT15-C∐BS 07:0.7m 12:1.2m 30:3m 50:5m 100:10m 200:20m	15" GT1665 15" GT1695 12.1" GT1685 12.1" GT1685 12.4" GT167 10.4" GT167 8.4" GT166 8.4" GT156 5.7" GT155	GT15-75ABUS2L GT15-ABUS2	GT15-C[BS 07:0.7m 12:1.2m 30:3m 50:5m 100:10m 200:20m	15" GT1695 15" GT1695 12.1" GT1595 12.1" GT1585 10.4" GT157 8.4" GT157 8.4" GT156 5.7" GT155 5.7" GT155 5	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2	RY 2 EQUIPMENT, SOFTWARE,
											e ce

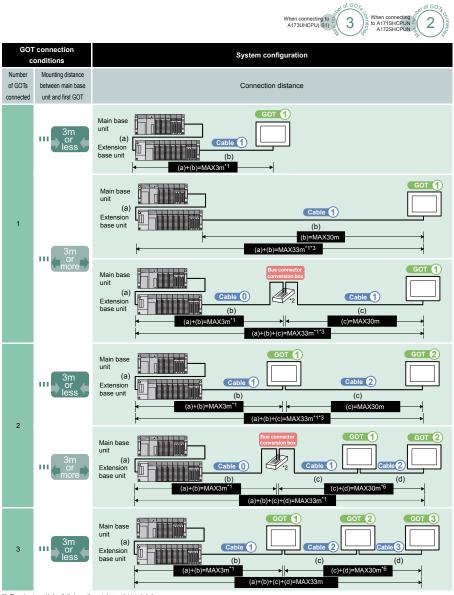
*5: Indication of cable model (example) "GT15-A1SC⊡NB 050.45m"-GT15-A1SC05NB *6: Use the GT15-ABUS(2) for mounting the following units. GT15-75ABUS(2): Is not available. Units for the multimedia function, Video/RG8 display, RGB output, report function, hard copy function (when printing), Ethernet download, gateway function, MES interface function, CF card unit, and CF card extension unit For GT16, however, Ethernet download, gateway function, and MES interface function are available using the Ethernet interface. *7: The bus connection unit is not required for GT115_| (dedicated to the bus connection).

WITH OVERSEAS STANDARDS

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When connecting to motion controller CPU (A171SHCPUN, A172SHCPUN, A173UHCPU(-S1)) with the extension base unit



*1: The extension cable length (between For the cable between the main bass 2: When installing the 1st GOT 30m or 3: Select a cable to keep the total cable *4: For GT15-CIEXSS-1

In the main base units) is included. e unit and extension base unit, refer to Mitsubishi Programmable Logic Controller MELSEC-Q (Catalog) (L(NA)-08033E) more away from the main base unit, the bus connector conversion box is required. Jeargh between the main base unit of a programmable controller and a terminal GOT within 33m.

Consisting of 015-EXCNB (0.5m) and GT15-CEIBS (10 to 30m). When calculating the cable length, use GT15-C100EXSS-1 (10m), GT15-C200EXSS-1 (20m), and GT15-C300EXSS-1 (30m).

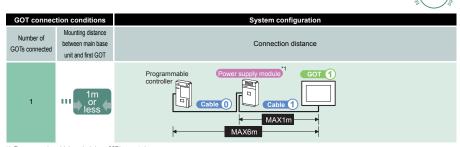
} —€]⁵			[] ⁵ [5					
			GOT main unit	Bus connection unit ^{*7}		GOT main unit	Bus connection unit ^{*7}		GOT main unit	Bus connection unit ^{*7}	
		GT15-A1SCUB 07:0.7m 12:1.2m 30:3m 50:5m	15" GI 1695 15" GI 1695 12.1" GI 1695 12.1" GI 1685 12.1" GI 1685 10.4" GT 167 8.4" GT 166 8.4" GT 166 5.7" GT 165 5.7" GT 155 10" (for bus connecton)	G115-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS GT15-ABUS2							
		GT15-C EXSS-1 100 : 10m 200 : 20m 300 : 30m	15" GT1695 15" GT1595 12.1" GT1585 12.1" GT1685 12.4" GT1685 10.4" GT167 8.4" GT166 8.4" GT156 5.7" GT155 5.7" GT155 5.7" GT155 (for bus connection)	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2							
15-A1SC[]NB : 0.45m : 0.7m : 3m : 5m	A7GT-CNB	GT15-C EXSS-1 100 : 10m 200 : 20m 300 : 30m	15" GT 1695 15" GT 1595 12.1" GT 1595 12.1" GT 1585 10.4" GT 167 10.4" GT 167 8.4" GT 166 5.7" GT 156 5.7" GT 156 5.7" GT 155 5.7" GT 115 5.7" GT 115 5.7" GT 115 5.7" GT 155	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2 GT15-ABUS2							COMMENTION
		GT15-A1SC⊞B 07:0.7m 12:12m 30:3m 50:5m	15' GT1695 15' GT1695 12.1' GT1685 12.1' GT1885 10.4' GT187 10.4' GT157 8.4' GT166 8.4' GT156 5.7' GT155	GT15-75ABUS2L GT15-ABUS2	GT15-C⊏BS 07:0.7m 12:1.2m 30:3m 50:5m 100:10m 200:20m 300:30m	15" GT1695 15" GT1595 12.1" GT1885 10.4" GT167 10.4" GT167 8.4" GT166 8.4" GT166 5.7" GT155 5.7" GT155 (for bus connection)	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2				
15-A1SC⊡NB : 0.45m : 0.7m : 3m : 5m	A7GT-CNB	GT15-C EXSS-1 100 : 10m 200 : 20m	15° GT1695 15° GT1595 12.1° GT1595 10.4° GT1595 10.4° GT167 10.4° GT157 8.4° GT166 5.7° GT155	GT15-75ABUS2L GT15-ABUS2	GT15-C[]BS 07:0.7m 12:1.2m 30:3m 50:5m 100:10m 200:20m	15" GT1695 12.1" GT1685 12.1" GT1685 10.4" GT1685 10.4" GT167 10.4" GT167 10.4" GT157 8.4" GT166 5.7" GT156 5.7" GT155 5.7" GT155 (for bus connection)	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS GT15-ABUS2				
		GT15-A1SC□B 07:0.7m 12:1.2m 30:3m 50:5m	15" GT1695 15" GT1595 12.1" GT1885 12.4" GT1885 10.4" GT167 10.4" GT167 8.4" GT167 8.4" GT166 5.7" GT155	GT15-75ABUS2L GT15-ABUS2	GT15-C[]BS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15" GT 1695 15" GT 1695 12.1" GT 1685 12.1" GT 1685 10.4" GT 167 10.4" GT 167 8.4" GT 166 8.4" GT 166 5.7" GT 156	GT15-75ABUS2L GT15-ABUS2	GT15-CCBS 07:0.7m 12:1.2m 30:3m 50:5m 100:10m 200:20m	15" GT1695 15" GT1595 12.1" GT1595 12.1" GT1585 10.4" GT167 10.4" GT167 10.4" GT167 8.4" GT166 8.4" GT166 5.7" GT155 5.7" GT155 5.7" GT115 (for bus connection)	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2 GT15-ABUS2	

*6: Select a cable to keep the total cable length within 30m. *7: Use the G15-ABUS(2) for mounting the following units. G715-75ABUS(2)L is not available. Units for the multimedia function, Video/RGB display, RGB output, report function, hard copy function (when printing), Ethernet do ad as r function, MES interface function, CF card unit, and CF card extension Unit to use manimum instances and the second and the second secon

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WITH OVERSEAS STANDARDS

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- The power supply module is required when a GOT is connected.
 In the connected is the power supply module is required when a GOT is connected.
 Use the GT15-ABUS(2) for mounting the following units. GT15-J2C108
 Use the GT15-ABUS(2) for mounting the following units. GT15-J2C108
 Use the GT15-ABUS(2) for mounting the following units. GT15-J2C108
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 Use the GT15-ABUS(2) for mounting the following units. GT15-J2C108
 Use the GT15-J2C108
 Use the GT15-J2C108
 Use the GT15-J2C108
 Use th unit For GT16, however, Ethernet download, gateway function, and MES interface function are available using the Ethernet interface The bus connection unit is not required for GT115_(dedicated to the bus connection).

Precautions on bus connection

Setting stage No. and slot No. of GOT

- 1. GOT recognized by programmable controller When a GOT is connected with bus connection, a programmable controller
 - recognizes the GOT as shown below. QCPU (Q mode) Intelligent function module with 16 I/O points
- Other than QCPU 2. I/O assignment :(Q mode)Intelligent function module with 32 I/O points
 - (1) Connecting to QCPU (Q mode)
 - Add one stage for connecting a GOT (16 points × 10 slots) and assign the GOT to the I/O slots. (The GOT cannot be assigned to empty I/O slots on the main
 - the field of a study (the Got failling be assigned to emply 10 study on the main hase unit and extension base unit.)
 Remarks
 I/O slots to which a GOT is not assigned can be set as empty slots (0 point). The I/O numbers of 16 points the number of the empty slots can be used for other devices. (Make settings in [PLC parameter] and then [I/O assignment] of GX Developer.) 9. Connecting to QCPU (Q mode) in "Precautions" Reference
 - (2) Connecting to other than QCPU (Q mode)
 - Assign a GOT to the empty I/O slot on the extension base unit. When there is no extension base unit or there is no empty slot on the extension base unit, add a new extension stage and assign a GOT to the I/O slot of the new stage. (The GOT cannot be assigned to empty I/O slots on the main base unit.)

Reference 10. Connecting to QnA(S)CPU type or An(S)CPU type in "Precautions" Precautions

Turning on GOT

- (1) Designing system
 - The programmable controller CPU remains reset until a GOT is started. A system where a GOT is started up by the sequence program cannot be
- (2) Time taken for programmable controller to be started after power-on of GOT

After a GOT is turned on, it takes approximately 10 seconds for the

Programmable controller to be started. When adding a GOT to the existing system or replacing an existing GOT with another GOT, take the programmable controller's start-up time into account and adjust the timings in the system.

- (3) Power-on order for case that three or more GOTs are connected to QCPU (Q mode)
- Reference 9. (1) Restrictions for total cable length to number of GOTs connected (4) Power-on order for case that GOT is connected to redundant Q4ARCPU system

Reference 13. (2) Power-on order for case that GOT is connected to redundant Q4ARCPU system

(5) Power-on order for case other than (3) and (4) The GOT can be started up first and the programmable controller can also be started up first.

(There is no specific order in which the both devices are turned on.) Note however, that operation is as follows when the GOT is turned on before the programmable controller:

When a GOT is turned on while the programmable controlled is off, a system alarm (No.402: timeout error) occurs. When the programmable controller is turned on, the GOT automatically restarts monitoring.

- Reset the alarm with the system information. 2. When a GOT is turned off or restarted (turned off and then on) (1) Precautions for restarting (turning off and then on) a GOT Do not restart (turn off and then on) a GOT while the programmable controller is
 - turned on Be sure to turn off the programmable controller before restarting (turning off and then on) a GOT.

Remarks Operation that automatically reboots GOT1000 series In GOT1000 series, a GOT is automatically rebooted for the following cases. It is not required to restart (turn off and on) the GOT

of GO,

- When OS is installed with GT Designer2 or the CF card
- When the utility settings are changed
 When a GOT is turned off before a user-created screen is displayed on the GOT
 - Communication may not be made when a GOT is turned off before a usercreated screen is displayed on the GOT. In the above case, turn on a programmable controller and the GOT again.
- (3) Power-on order for case that three or more GOTs are connected to QCPU (Q mode)
 - Reference 9. (1) Restrictions for total cable length to number of GOTs rted
- 3. Reset switch of GOT
- The reset switch of the GOT does not operate with the bus connection 4. When a programmable controller is turned off or reset
- (1) When a programmable controller is turned off or reset during monitoring

When a programmable controller is turned off or reset during monitoring, a system alarm (No.402: timeout error) occurs. When the programmable controller is restored, a GOT automatically restarts monitoring. Reset the alarm with the vetem information

- (2) When a programmable controller is turned off or reset before a usercreated screen is displayed on the GOT Communication may not be made when a programmable controller is turned off or reset before a user-created screen is displayed on the GOT. In the above case, turn on a programmable controller and the GOT again.
- (3) Power-on order for case that three or more GOTs are connected to QCPU (Q mode)

Reference 9 (1) Restrictions for total cable length to number of GOTs connected 5. Connecting location of GOT

A GOT must be connected to the base unit at the last stage of the system. The GOT cannot be connected between the base units

6. When a GOT is connected to a programmable controller CPU with bus connection without the communication driver installed When a GOT is connected to a programmable controller CPU with the bus connection without the standard monitor OS and the communication driver for hus connection installed, the programmable controller CPU is reset. (The GOT cannot communicate to the programmable controller with GX Developer or other software.) In the above case, reset of the programmable controller is canceled when the bus

connection cable of the GOT is removed 7. Designing system

The current listed below is supplied from a programmable controller (the power supply module of the main base unit) to a GOT when the GOT is turned off. (The GOT is not activated when the GOT is turned off.) The rated output current of a power supply module to be used at 5VDC includes the

larget CPU	Number of GOTs connected	Total current consumption
	5	2200mA
Connecting to QCPU	4	1760mA
(Q mode)	3	1320mA
(Q MODE)	2	880mA
	1	440mA
Connecting to CPU other	3	360mA
than QCPU (Q mode)	2	240mA
(Q mode) (Q mode)	1	120mA

currents consumed by a module mounted on the main base unit at 5VDC and

consumed by a GOT. Design a system to keep the total of the currents below the rated output current.

8. When the I/O signals of a GOT are assigned

The I/O signals assigned to a programmable controller are used on a GOT system. Do not use the I/O signals in a sequence program. Otherwise, functions of the GOT cannot be guaranteed.



	لصا			
			GOT main unit	GOT main unit ^{*7}
A0J2CCIB 62: 0.3m (for horizontal mounting) 66: 0.55m (for vertical mounting) 10: fm (for extension) 20: 2m (for extension)	A0J2-PW	GT15-J2C108 10 : 1m	15° G11685 12° G11685 12° G11685 12° G11685 10° G1167 10° G1157 8° G1160 8° G1160 8° G1160 5° G1155 5° G1155 5° G1155 1° G1155 1° G1155	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS2 GT15-ABUS2 GT15-ABUS2

9. Connecting to QCPU (Q mode)

(1) Restrictions for total cable length to number of GOTs connected There are the following restrictions when three or more GOTs are connected

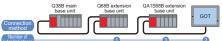
Number of GOTs	Total cable length						
connected	15m or less	15 to 20m or less	20 to 25m or less	25 to 37m or less	÷		
1	0	0	0	0			
2	0	0	0	0	-		
3	0	0	0	Δ	-		
4	0	0	Δ	Δ	ł		
5	0	Δ	Δ	Δ			

O: There are no restrictions

- : Use the same power supplies of a programmable controller and all GOTs and turn on or off all the power supplies simultaneously. (2) When using Q00JCPU or Q00UJCPU
- The bus extension connector box can be connected only to the extension base unit.
- (The bus extension connector box cannot be mounted on the main base unit.) (3) When using Q00J/Q00/Q01/Q02U/Q00UJ/Q00U/Q01UCPU When the GOT is connected to the Q00JCPU with the bus connection, the number of extension stages including the GOT must be two or less. When the GOT is connected to the Q00CPU, Q01CPU or Q02UCPU with the bus connection, the number of extension stages including the GOT must be four or loog

(4) When using QA1S6 B extension base unit

Though the GOT is physically connected behind all the extension base units, assign the GOT to the stage right behind the Q ... B extension base unit in the extension stage number setting. Assign the QA1S6 B extension base unit as a stage next to the GOT.



10. Connecting to QnA(S)CPU type or An(S)CPU type

(1) Connecting to QnA(S)CPU type or An(S)CPU type A GOT can be connected to an exte sion connector on only one side of the main base unit. (GOTs cannot be connected simultaneously to the extension connectors on bothsides.)

- (2) When using Q4A(R)CPU, Q3ACPU, A CPU or A4UCPU At least one empty slot for an I/O module is required in a programmable controller system
- (3) When using A0J2HCPU Assign the GOT to the I/O slots 0 to 3 of the first extension stage. (4) When using CPUs other than CPUs of (2) and (3)

Even if the maximum number of stages are used with no empty I/O slots, when there is a free space of 32 I/O points or more, a GOT can be connected with the following communication interface setting.

		Communication interface setting		
Target CPU	Max. stage No.	Stage No.	Slot No.	
A1 CPU/A2USCPU(-S1)	1	2	0	
A2CCPU/Q2ACPU	3	4	0	
A3CCPU/A4CCPU	7			
Q3ACPU/Q4ACPU	7	Disa	bled	
A0 I2HCRU	1	1		

11. Connecting multiple GOTs

(1) System including different GOT series The GOT1000 series cannot be used with different GOT series in a system.

(2) Restrictions on number of GOTs connected

There are restrictions on the number of GOTs connected depending on the target CPLI and the r ar of intell

target GFO and the number of intelligent function modules modified.						
	Target CPU	Number of connectable GOTs	Total number of connectable GOTs and intelligent function modules*1			
QCPU (Q mode)/Mot	on controller CPU (Q series)	5	5 GOTs and 6 intelligent function modules*2			
QCPU (A mode)		Not connectable	-			
QnACPU		3	6 in total			
	AnUCPU, AnACPU, A2US(H)CPU	3	6 in total			
ACPU	AnNCPU, AnS(H)CPU, A1SJ(H)CPU	2	2 in total			
ACPU	A0J2HCPU	1	2 in total			
	A1FXCPU	Not connectable	-			
Motion controller CPU (A series)	A273UCPU, A273UHCPU(-S3), A373UCPU(-S3), A173UHCPU(-S1)	3	6 in total			
CPU (Aseries)	A171SHCPUN, A172SHCPUN	2	2 in total			

The following shows the models of connectable intelligent function modules, ADS (IS), ADS (HIS), ADS (FID(S)), ADS (G(S)), AJT (22(S1), AJT (22(S1)), AJT (22,S1)), AJT (22(S3)), AJT (22(A, AJT) (21(S1), AJT) (21(

node) mode; *2: A1SD51S is the only intelligent function module that can be connected to a QCPU (Q mode).

12. When using programmable controller CPU in direct mode

When the I/O control mode of the programmable controller CPU is the direct mode, and if the first GOT is connected to the main or extension base unit with a 5m extension cable (GT15-AC50B, GT15-A1SC50NB), the input X of the empty I/O slot cannot be used.

No restrictions apply when the I/O control mode is the refresh mode

On programmable controller CPUs whose I/O control mode can be selected by a switch, set the I/O control mode to the refresh mode before use. Remarks

Examples of using input X of an empty I/O slot When input X is assigned on the MELSECNET/ID network When input X of an empty I/O slot is turned on or off by the computer link module When input X of an empty I/O slot is turned on or off by the touch switch function (Bit SET/RST/Alternate/Momentary) of a GOT

13. Connecting to redundant Q4ARCPU system

(1) Connecting to redundant Q4ARCPU system with bus connection

Connect a GOT to the last redundant extension base unit (A68RB) of the redundant Q4ARCPU system.

For the redundant extension base units, use version B or later The version can be confirmed in the DATE field of the rating plate.

- Precautions for redundant Q4ARCPU system configurations Remarks The GOT does not operate normally in the following system configurations.
 - •When the GOT is connected to the bus switching module (A6RAF) on the redundant main base unit (A32RB/A33RB) with the bus connection •When the GOT is connected to the version A redundant extension base unit (A68RB) with the bus connection

- (2) Power-on order for GOT and redundant Q4ARCPU system Turn on the GOT and Q4ARCPU redundant system in the following order. 1) Turn on the GOT
 - 2) After the monitor screen is displayed on the GOT, turn on the redundant Q4ARCPU system.A timeout error is displayed on the system alarm. Reset the alarm with the system information

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AND MANUALS

EQUIPMENT, SOFTWARE,

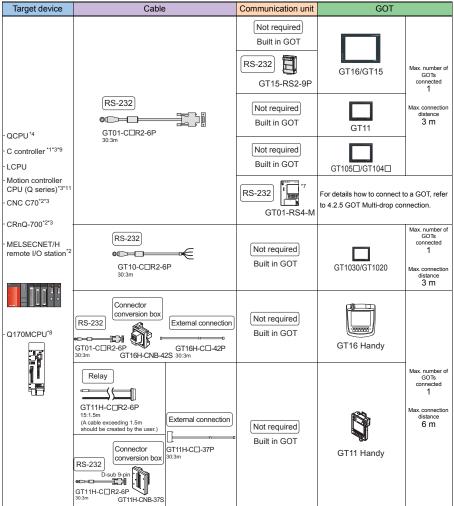
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GLOSSARY

4.1.4 Direct CPU connection

QCPU/C controller/LCPU/Motion controller CPU (Q series)/CNC C70/Robot controller

System configuration 1) RS-232



*1: Available only for GT16, GT15, GT11, and Handy GOT.

*2: Available only for GT16, GT15, GT11, Handy GOT, and GT SoftGOT *3: Configure the multiple CPU system.

*4: When connecting to Q UDE(H)CPU, configure the multiple CPU system.

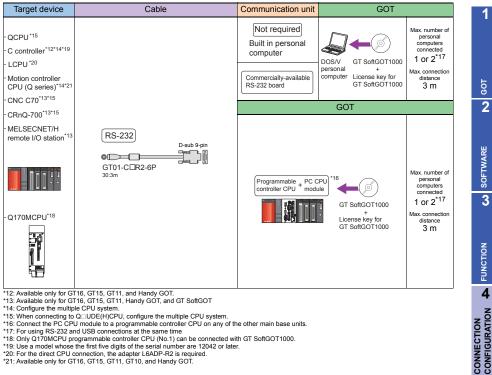
*7: Available only for QCPU.

*8: Only Q170MCPU programmable controller CPU (No.1) can be connected with GT SoftGOT1000.

*9: Use a model whose the first five digits of the serial number are 12042 or later.

*10: For the direct CPU connection, the adapter L6ADP-R2 is required.

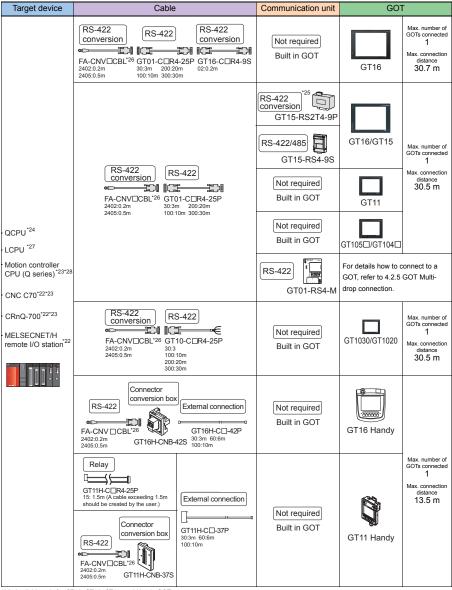
*11: Available only for GT16, GT15, GT11, GT10, and Handy GOT.



- *14: Configure the multiple CPU system
- 45: When connecting to Q□UDE(H)CPU, configure the multiple CPU system.
 *16: Connect the PC CPU module to a programmable controller CPU on any of the other main base units.
- *17: For using RS-232 and USB connections at the same time *18: Only QTOMCPU programmable controller CPU (No.1) can be connected with GT SoftGOT1000.
- *19: Use a model whose the first five digits of the serial number are 12042 or later.
- *20: For the direct CPU connection, the adapter L6ADP-R2 is required.
- *21: Available only for GT16, GT15, GT11, GT10, and Handy GOT.

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2) RS-422



*22: Available only for GT16, GT15, GT11, and Handy GOT. *23: Configure the multiple CPU system.

*24: When connecting to Q UDE(H)CPU, configure the multiple CPU system.

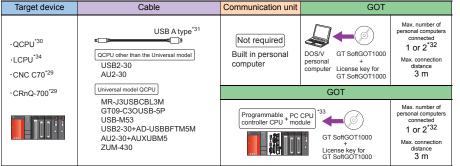
*25: For using GT155 , use GT15-RS-4-9S.

*26: The FA-CNV CBL is Recommended Product.

Purchase the cable from MITSUBISHI ELECTRIC ENGINEEERING CO., LTD.

*27: For the direct CPU connection, the adapter L6ADP-R2 is required. *28: Available only for GT16, GT15, GT11, GT10, and Handy GOT.

3) USB



*29: Configure the multiple CPU system.

*30: When connecting to Q UDE(H)CPU, configure the multiple CPU system.

*31: The USB communication cable is Recommended Product. Purchase the cable from ELECOM CO., LTD, ARVEL CORP or LOAS CO., LTD.

*32: For using RS-232 and USB connections at the same time *33: Connect the PC CPU module to a programmable controller CPU on any of the other main base units.

*34: For the direct CPU connection, the adapter L6ADP-R2 is required.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used					
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)					
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)					
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD					
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)					
0110		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)					
		RS-232 or RS-422 connections	GT115Q_BD					
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA					
	Handy GOT	RS-232 or RS-422 connections	GT115 HS-Q BD					
	GT105	RS-232 or RS-422 connections	GT105 -Q BD					
	GT104	RS-232 or RS-422 connections	GT104Q_BD					
		RS-232 connection	GT1030-L_D2/L_DW2, GT1020-L_D2/L_DW2					
GT10	GT1030		GT1030-L_D/L_DW, GT1030-L_L/L_LW, GT1020-L_D/L_DW,					
	GT1030 GT1020		GT1020-L_L/L_LW					
			(For GT1030-L_L/L_LW, GT1020-L_L/L_LW, MELSEC-FXCPU connection is available only.)					

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CONNECTION CONFIGURATION **A** FUNCTION

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Precautions

Other precautions

- For connecting the GOT to the multiple CPU system (Q00CPU, Q01CPU, Q02CPU, Q02HCPU, Q06HCPU, Q12HCPU, and Q25HCPU), use CPUs with the function version B or later.
- When connecting to motion controller CPU (Q series)
 - For Q172CPŬ or Q173CPU
 - (1) Use the motion controller CPU with the following production numbers. Q172CPU with K****** or later, Q173CPU with J****** or later
 - (2) For using the SV13, SV22, and SV43, use a motion controller with the following OS installed. SW6RN-SV13Q : 00E or later, SW6RN-SV22Q : 00E or later, SW6RN-SV43Q : 00B or later
 - For Q172CPUN or Q173CPUN
 For using the SV13, SV22, and SV43, use a motion controller with the following OS installed.
 SW6RN-SV13Q : 00H or later, SW6RN-SV22Q : 00H or later, SW6RN-SV43Q : 00B or later

When connecting GT16, GT15, GT11, and Handy GOT to a motion controller CPU (Q series) other than Q170MCPU, CNC C70, or CRQ-700. Connect the GOT to a motion controller CPU (Q series) other than Q170MCPU, CNC C70, or CRQ-700 via the RS-232 interface of the QCPU in the multiple CPU system.

 When connecting GT SoftGOT1000 to CNC C70 or CRnQ-700 Connect GT SoftGOT1000 to CNC C70 or CRnQ-700 via the RS-232 or USB interfaces of the QCPU in the multiple CPU system.

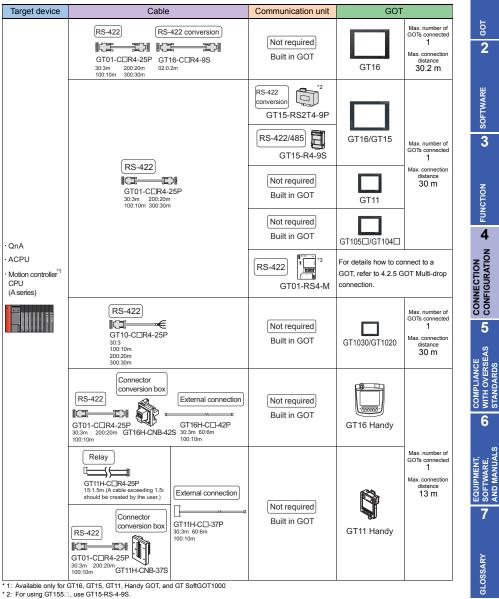
Related Manuals •

 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of direct CPU connection 		Chapter 6 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)
For the accessible range that can be monitored by GOT	\triangleright	Chapter 3 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)
For connection method with Handy GOT		Chapter 19 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 22 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)
 For connection method with GT SoftGOT1000 For controllers that can be monitored by GT SoftGOT1000 and accessible range 		Chapter 2 in GT SoftGOT1000 Version3 Operating Manual for GT Works3 (SH-080860ENG)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

System configuration -

1) RS-422



* 3: Available only for ACPU.

GOT

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SOFTWARE

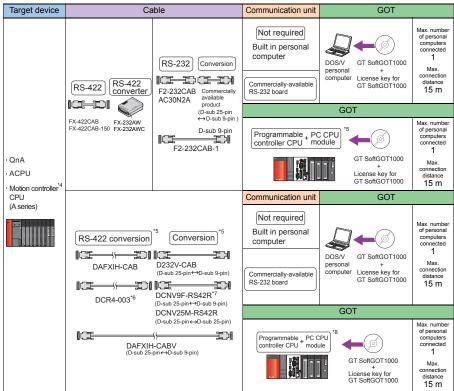
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GLOSSARY



*4: Available only for GT16, GT15, GT11, Handy GOT, and GT SoftGOT1000.

*5: Recommended Product. Purchase the cable from Diatrend Corporation.

*6: Keep the cable length of DCR4-003 (D-sub 25-pin ↔ D-sub 25-pin) below 3m.

*7: When using DCNV9F-RS42R, be sure to ground the FG terminal of a programmable controller system.
 *8: Connect the PC CPU module to another programmable controller.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used					
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)					
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)					
	Handy GOT RS-232, RS-422/485 or Etherner connection		GT1665HS-VTBD					
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)					
0115		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)					
		RS-232 or RS-422 connections	GT115Q_BD					
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA					
	Handy GOT	RS-232 or RS-422 connections	GT115 HS-Q BD					
	GT105	RS-232 or RS-422 connections	GT105 -Q BD					
	GT104	RS-232 or RS-422 connections	GT104 -Q BD					
		RS-232 connection	GT1030-L_D2/L_DW2, GT1020-L_D2/L_DW2					
GT10	GT1030		GT1030-L_D/L_DW, GT1030-L_L/L_LW, GT1020-L_D/L_DW,					
	GT1030 GT1020		GT1020-L_L/L_LW					
			(For GT1030-L L/L LW, GT1020-L L/L LW, MELSEC-FXCPU connection is					
			available only.)					

GOT

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Precautions

Precautions on system

- When connecting the motion controller (A series) to GT SoftGOT1000, simultaneous connection with other MELSOFT products (such as GX Developer) is not allowed.
- The motion controller (A series) cannot be connected to the remote I/O station.

Other precautions

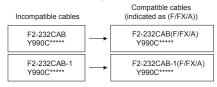
When monitoring MELSEC-A series (AnCPU type)*1, MELSEC-A series (AnSCPU type)*2, or MELSEC-A series^{*3}, data can be written to only CPUs with the following software version or later. The earlier software version is not available.

- AnNCPU (S1): Version L or later for the one with link, version H or later for the one without link
- A2SCPU: Version H or later
- A0J2HCPU (With/without link): Version E or later
- A0J2HCPU-DC24: Version B or later
- A2CCPU: Version H or later
- *1: When connecting to A1NCPU, A1NCPUP21, A1NCPUR21, A2NCPU, A2NCPUP21, A2NCPUR21, CA2NCPU-S1. A2NCPUP21-S1. A2NCPUR21-S1. A3NCPU. or A3NCPUP21
- *2: When connecting to A2SCPU or A2SCPU-S1
- *3: When connecting to A0J2HCPU, A0J2HCPUP21, A0J2HCPUR21, A0J2HCPU-DC24, or A2CCPU

When connecting or disconnecting converter/cable for GT SoftGOT1000

- · When connecting or disconnecting converter/cable that receives 5VDC power When connecting or disconnecting the converter/cable that receives 5VDC power from a programmable controller, power off the programmable controller and start working.
- When connecting or disconnecting converter/cable that does not receive 5VDC power When connecting or disconnecting peripheral devices and the cables that do not receive 5VDC power from a programmable controller (receives the power from an external power supply), follow the procedure as below.
 - 1) Be sure to use an earth band or touch a grounded metal object before working to discharge the static electricity from the cables, human body, and others.
 - 2) Power off the personal computer.
 - 3) Power off the converter. When the converter/cable have an FG terminal, ground it.
 - 4) Connect/disconnect the converter/cable between the personal computer and programmable controller
 - 5) Power on the converter.
 - 6) Power on the personal computer.
 - 7) Start up the software package.
- Use a RS-232 cable (F2-232CAB or F2-232CAB-1) applicable to the QnACPU or ACPU (For GT SoftGOT1000).

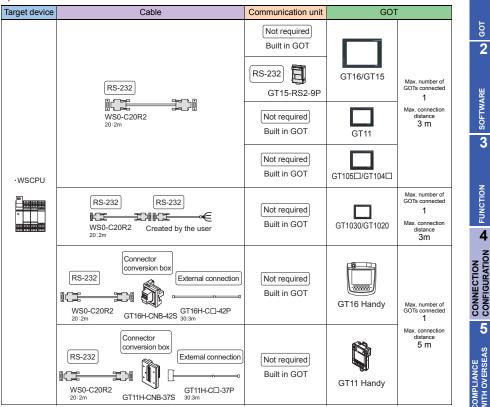
For distinguishing cables applicable to the QnACPU and ACPU, check the indication of the model label on the cable. (Inapplicable cables are not available.)



Related Manuals		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of direct CPU connection 		Chapter 6 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)
For the accessible range that can be monitored by GOT	\triangleright	Chapter 3 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)
For connection method with Handy GOT		Chapter 19 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 22 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)
 For connection method with GT SoftGOT1000 For controllers that can be monitored by GT SoftGOT1000 and accessible range 		Chapter 2 in GT SoftGOT1000 Version3 Operating Manual for GT Works3 (SH-080860ENG)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

System configuration -1) RS-232



GOT

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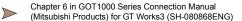
SOFTWARE

The GOT model to be used differs depending on the connection type.

Series		Connection type	GOT model to be used	
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)	
GT16	Connections other than the above		All the models (communication units connected to the GOT main unit)	
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD	
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)	
0110		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)	
		RS-232 or RS-422 connections	GT115Q_BD	
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA	
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD	
GT10	GT105	RS-232 or RS-422 connections	GT105Q_BD	
	GT104	RS-232 or RS-422 connections	S-422 connections GT104Q_BD	
	GT1030 GT1020	RS-232 connection	GT1030-L_D2/L_DW2, GT1020-L_D2/L_DW2	
		RS-422 connection	GT1030-L_D/L_DW, GT1030-L_L/L_LW, GT1020-L_D/L_DW,	
			GT1020-L_L/L_LW	
			(For GT1030-L_L/L_LW, GT1020-L_L/L_LW, MELSEC-FXCPU connection is available only.)	

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking of direct CPU connection
- For the accessible range that can be monitored by GOT
- · For connection method with Handy GOT



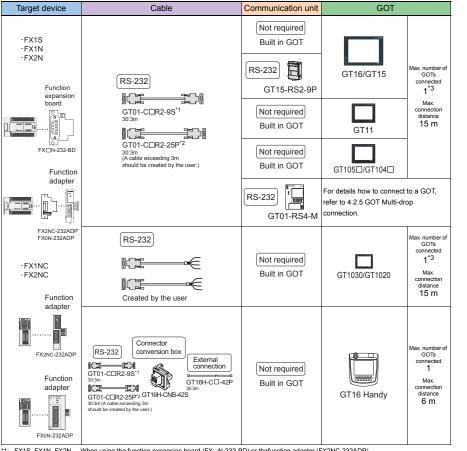
n be monitored by	\triangleright	Chapter 3 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)
ndy GOT		Chapter 19 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 22 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)

For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

*

System configuration -

1) RS-232



*1: FX1S, FX1N, FX2N.... When using the function expansion board (FX□N-232-BD) or thefunction adapter (FX2NC-232ADP)

FX1NC, FX2NC When using the function adapter (FX2NC-232ADP) When using the function adapter (FX0N-232ADP) *2:

*3:

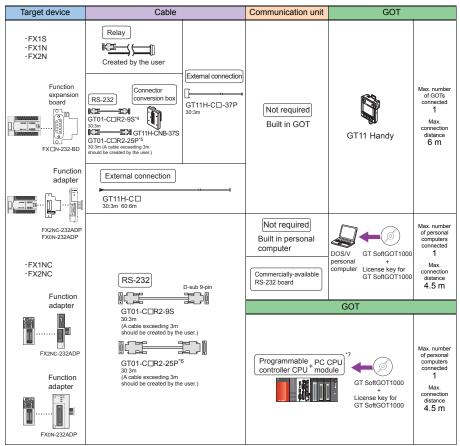
When using the function expansion board indicated in *1 or *2 or the function adapter

GOT

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SOFTWARE

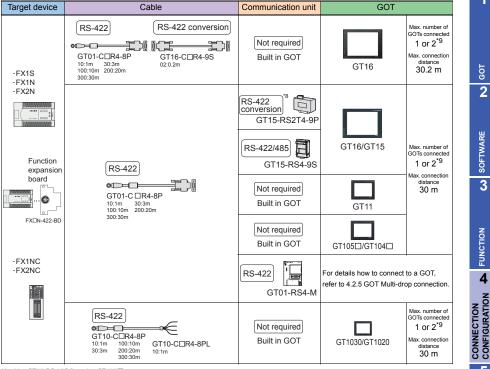
5 COMPLIANCE WITH OVERSEAS STANDARDS



*4: FX1S, FX1N, FX2N.... When using the function expansion board (FX□N-232-BD) or thefunction adapter (FX2NC-232ADP)

FAIS, FAIN, FAIN, FAIN, Within Using the function expension body (FAIN 2020) (Control and Control and

2) RS-422



*8: Use GT15-RS4-9S for using GT155

*9: FX1S, FX1N, FX2N.... When used with the function expansion board (FX□N-422-BD) FX1NC, FX2NC Only one GOT can be connected for the RS-422 connection.

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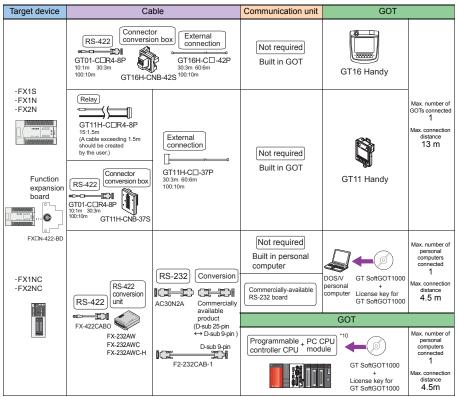
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COMPLIANCE WITH OVERSEAS STANDARDS

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EQUIPMENT, SOFTWARE, AND MANUALS



*10: Connect the PC CPU module to another programmable controller.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used	
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)	
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)	
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD	
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)	
0115		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)	
		RS-232 or RS-422 connections	GT115Q_BD	
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA	
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD	
	GT105	RS-232 or RS-422 connections	GT105Q_BD	
	GT104	RS-232 or RS-422 connections	GT104Q_BD	
		RS-232 connection	GT1030-L_D2/L_DW2, GT1020-L_D2/L_DW2	
	GT1030		GT1030-L_D/L_DW, GT1030-L_L/L_LW, GT1020-L_D/L_DW,	
	GT1030 GT1020		GT1020-L L/L LW	
	011020		(For GT1030-L L/L LW, GT1020-L L/L LW, MELSEC-FXCPU connection is	
			available only.)	

Precautions

Precautions on setup

- When connecting or disconnecting converter/cable for GT SoftGOT1000
 - When connecting or disconnecting converter/cable that receives 5VDC power When connecting or disconnecting the converter/cable that receives 5VDC power from a programmable controller, power off the programmable controller and start working.
 - When connecting or disconnecting converter/cable that does not receive 5VDC power When connecting or disconnecting peripheral devices and the cables that do not receive 5VDC power from a programmable controller (receives the power from an external power supply), follow the procedure as below.
 - Be sure to use an earth band or touch a grounded metal object before working to discharge the static electricity from the cables, human body, and others.
 - 2) Power off the personal computer.
 - 3) Power off the converter. When the converter/cable have an FG terminal, ground it.

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- Connect/disconnect the converter/cable between the personal computer and programmable controller.
- 5) Power on the converter.
- 6) Power on the personal computer.
- 7) Start up the software package.

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking of direct CPU connection
- For the accessible range that can be monitored by GOT
- · For connection method with Handy GOT
- For connection method with GT SoftGOT1000
- For controllers that can be monitored by GT SoftGOT1000 and accessible range
- For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

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EQUIPMENT, SOFTWARE, AND MANUALS

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Chapter 6 in GOT1000 Series Connection Manual

Chapter 3 in GOT1000 Series Connection Manual

Chapter 22 in GT11 Handy GOT User's Manual

Chapter 2 in GT SoftGOT1000 Version3 Operating

Manual for GT Works3 (SH-080860ENG)

(JY997D41201, JY997D41202)

(JY997D20101, JY997D20102)

(Mitsubishi Products) for GT Works3 (SH-080868ENG)

(Mitsubishi Products) for GT Works3 (SH-080868ENG) Chapter 19 in GT16 Handy GOT User's Manual

System configuration -

1) RS-422

Target device	Cable	Communication unit	GOT	
	RS-422 RS-422 conversion GT01-CLR4-8P ¹ 10:1m 30.3m GT16-CLR4-9S 02:0.2m GT01-CLR4-25P ² 30:3m 100:10m 200:200 300:30m	Not required Built in GOT	GT16	Max. number of GOTs connected 1 Max. connection distance 30.2 m
·FX0 ·FX0S ·FX0N	RS-422 GT01-CDR4-8P'1	RS-422 GT15-RS2T4-9P RS-422/485 GT15-RS4-9S Not required Built in GOT	GT16/GT15	Max. number of GOTs connected 1 Max. connection distance 30 m
· FX1'4 · FX2'4 · FX2C'4	X1 ¹⁴ 100:10m 200:20m X2 ¹⁴ 300:30m 300:30m X2 ¹⁴ 1 1 GT01-CLR4-25P ¹² GT01-CLR4-25P ¹²	Not required Built in GOT	GT11 GT105□/GT104□	Max. number of GOTs connected 1 Max. connection distance 30 m* ⁵
		GT01-RS4-M	For details how to conner refer to 4.2.5 GOT Multi-	
*1: When connectin	RS-422 GT10-CCR4-8P ⁻¹ 10:1m 100:10m 30:3m 200:20m 300:30m GT10-CCR4-25P ⁻² 30:3m 200:20m 100:10m 300:30m	Not required Built in GOT	GT1030/GT1020	Max. number of GOTs connected 1 Max. connection distance 30 m*5

*1: When connecting to FX0S or FX0N *2: When connecting to FX1, FX2, or FX2C

*3: Use GT15-RS4-9S for using GT155

*4: Not connectable to GT1030-L L/L LW or GT1020-L L/L LW.

*5: When connecting to GT1030-L L/L LW or GT1020-L L/L LW, the max. connection distance is 3m.

·FX0 FX0 FX0 FX1 FX0 FX1 FX1 FX1 FX1 FX1 FX2 FX1 FX2	Target device		Cat	le		Communication unit	GOT		1
-FX0 FX0 FX1 FX1 FX1 FX1 FX1 FX1 FX1 FX1 FX1 FX2 FX1 FX1 FX1 FX1 FX1 FX1 FX2 FX1 FX1 FX1 FX1 FX1 FX2 FX1 FX1 FX2 FX1 FX2 FX2 FX2 FX2 FX1 FX2		GT01 10:1m 100:10 ICE GT01	Conversion CCR4-8P *6 30.3m m GT16H-CI 1-C□R4-25P *7	on box E GT 30:30	connection 16H-C□-42P m 60:6m	· · · · ·			
RS-422 Conversion unit RS-232 Conversion Computer Suilt in personal computer Conversion personal computer Conversion personal computer Max connected 1 1 Max number of conversion personal computer Max number of conversion distance Conversion distance Conversion distance Conversion distance Max number of conversion distance Conversion distance Conversio	-FX0S -FX0N	GT11H 15:1.5m should be GT11H 15:1.5m should be RS-4222 CO GT01-CC 10:1m 303:100 100:10m	Acade exceeding 1.5m oreated by the user.) CCIR4-25P'7 (Acade exceeding 1.5m oreated by the user.) (Acade exceeding 1.5m orversion box (Acade exceeding 1.5m orversion box (Acade exceeding 1.5m orversion box) (Acade exceeding 1.5m orversion box)	GT11H- 30:3m 60	ction →→→→ C□-37P	·	GT11 Handy	GOTs connected 1 Max. connection distance	3
*6: When connecting to FX0S or FX0N *7: When connecting to FX1, FX2, or FX2C *8: Connect the PC CPU module to another programmable controller. The GOT model to be used differs depending on the connection type.		FX-422C	422 conversion unit AB ⁷⁷ FX-232AW		Commercially available product (D-sub 25-pin ↔ D-sub 9-pin) D-sub 9-pin	Built in personal computer	Personal + computer License key for GT SoftGOT1000 GOT GT SoftGOT1000 License key for	personal computers connected 1 Max connection distance 4.5 m Max.number of personal computers connected 1 Max.connection distance	CONNECTION CONFIGURATION
Series Connection type GOT model to be used	*6: When connecting to FX0S or FX0N *7: When connecting to FX1, FX2, or FX2C *8: Connect the PC CPU module to another programmable controller. The GOT model to be used differs depending on the connection type.					COMPLIANCE WITH OVERSEAS STANDARDS			

	Series	Connection type	GOT model to be used	
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)	
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)	
Handy GOT		RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD	
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)	
GIIJ		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)	
		RS-232 or RS-422 connections	GT115Q_BD	
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA	
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD	
	GT105	RS-232 or RS-422 connections	GT105Q_BD	
	GT104	RS-232 or RS-422 connections	GT104Q_BD	
		RS-232 connection	GT1030-L_D2/L_DW2, GT1020-L_D2/L_DW2	
	GT1030		GT1030-L_D/L_DW, GT1030-L_L/L_LW, GT1020-L_D/L_DW,	
	GT1020		GT1020-L_L/L_LW	
			(For GT1030-L_L/L_LW, GT1020-L_L/L_LW, MELSEC-FXCPU connection is available only.)	

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EQUIPMENT, SOFTWARE, AND MANUALS

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GLOSSARY

Precautions

Other precautions

- When connecting or disconnecting converter/cable for GT SoftGOT1000
 - When connecting or disconnecting converter/cable that receives 5VDC power When connecting or disconnecting the converter/cable that receives 5VDC power from a programmable controller, power off the programmable controller and start working.
 - When connecting or disconnecting converter/cable that does not receive 5VDC power When connecting or disconnecting peripheral devices and the cables that do not receive 5VDC power from a programmable controller (receives the power from an external power supply), follow the procedure as below.
 - Be sure to use an earth band or touch a grounded metal object before working to discharge the static electricity from the cables, human body, and others.
 - 2) Power off the personal computer.
 - 3) Power off the converter. When the converter/cable have an FG terminal, ground it.

>

>

 Connect/disconnect the converter/cable between the personal computer and programmable controller.

Chapter 6 in GOT1000 Series Connection Manual

Chapter 3 in GOT1000 Series Connection Manual

Chapter 22 in GT11 Handy GOT User's Manual

Chapter 2 in GT SoftGOT1000 Version3 Operating

Manual for GT Works3 (SH-080860ENG)

(JY997D41201, JY997D41202)

(JY997D20101, JY997D20102)

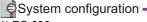
(Mitsubishi Products) for GT Works3 (SH-080868ENG)

(Mitsubishi Products) for GT Works3 (SH-080868ENG) Chapter 19 in GT16 Handy GOT User's Manual

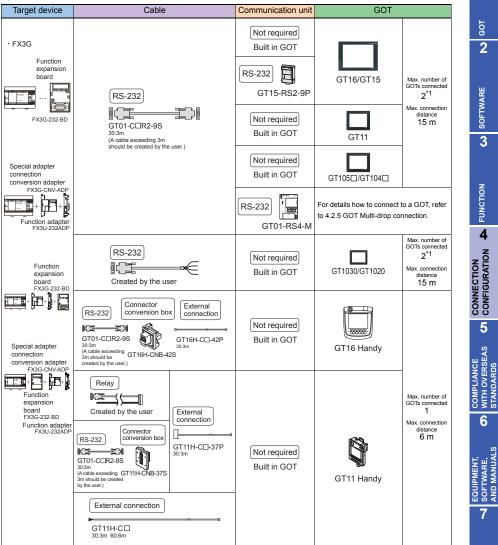
- 5) Power on the converter.
- 6) Power on the personal computer.
- 7) Start up the software package.

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking of direct CPU connection
- For the accessible range that can be monitored by GOT
- · For connection method with Handy GOT
- For connection method with GT SoftGOT1000
- For controllers that can be monitored by GT SoftGOT1000 and accessible range
- For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.



1) RS-232



*1: In case of using the function expansion board (FX3G-232-BD) or the function adapter (FX3U-232ADP) (When using GT1030-L L/L LW or GT1020-L L/L LW, two GOTs cannot be connected at the same time.)

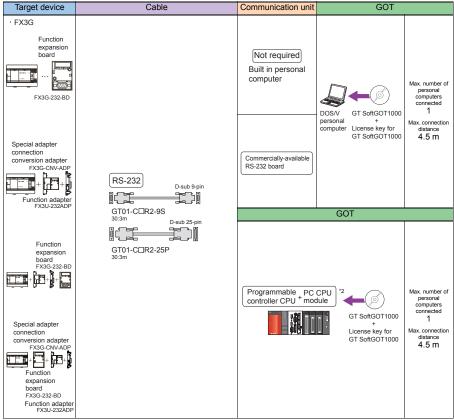
GOT

2

SOFTWARE

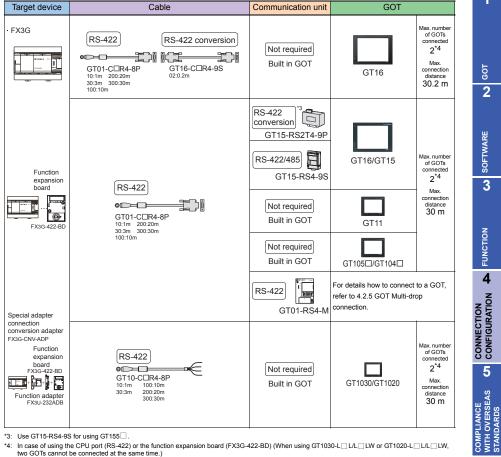
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*2: Connect the PC CPU module to another programmable controller.

2) RS-422

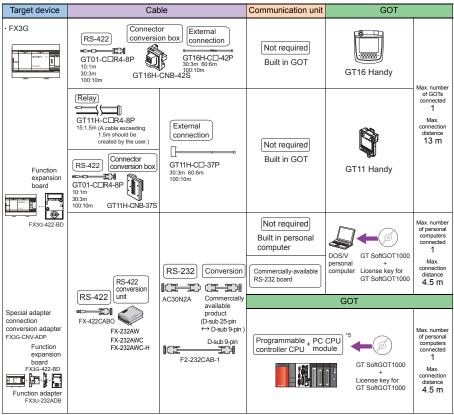


*3: Use GT15-RS4-9S for using GT155

*4: In case of using the CPU port (RS-422) or the function expansion board (FX3G-422-BD) (When using GT1030-L L/L LW or GT1020-L L/L LW, two GOTs cannot be connected at the same time.)

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*5: Connect the PC CPU module to another programmable controller.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used	
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)	
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)	
	Handy GOT RS-232, RS-422/485 or Ethernet connection		GT1665HS-VTBD	
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)	
0115		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)	
		RS-232 or RS-422 connections	GT115Q_BD	
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA	
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD	
	GT105	RS-232 or RS-422 connections	GT105Q_BD	
	GT104	RS-232 or RS-422 connections	GT104Q_BD	
		RS-232 connection	GT1030-L_D2/L_DW2, GT1020-L_D2/L_DW2	
GT10	GT1030		GT1030-L_D/L_DW, GT1030-L_L/L_LW, GT1020-L_D/L_DW,	
	GT1020	GT1020 RS-422 connection	GT1020-L_L/L_LW	
			(For GT1030-L_L/L_LW, GT1020-L_L/L_LW, MELSEC-FXCPU connection is available only.)	

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Precautions

Precautions on system

The function expansion boards and function adapters that can be connected to the GOT are the FX3G-232-BD, FX3G-422-BD, and FX3U-232ADP only.

Precautions on setup

When connecting or disconnecting converter/cable for GT SoftGOT1000

- · When connecting or disconnecting converter/cable that receives 5VDC power When connecting or disconnecting the converter/cable that receives 5VDC power from a programmable controller, power off the programmable controller and start working.
- When connecting or disconnecting converter/cable that does not receive 5VDC power When connecting or disconnecting peripheral devices and the cables that do not receive 5VDC power from a programmable controller (receives the power from an external power supply), follow the procedure as below.
 - 1) Be sure to use an earth band or touch a grounded metal object before working to discharge the static electricity from the cables, human body, and others.
 - 2) Power off the personal computer.
 - 3) Power off the converter. When the converter/cable have an FG terminal, ground it.
 - 4) Connect/disconnect the converter/cable between the personal computer and programmable controller
 - 5) Power on the converter.
 - 6) Power on the personal computer.
 - 7) Start up the software package.

Related Manuals · For details of system configuration and connection cable Chapter 6 in GOT1000 Series Connection Manual · For precautions and restrictions (Mitsubishi Products) for GT Works3 (SH-080868ENG) · For outlined procedure and checking of direct **CPU** connection · For the accessible range that can be monitored by Chapter 3 in GOT1000 Series Connection Manual >GOT (Mitsubishi Products) for GT Works3 (SH-080868ENG) Chapter 19 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) · For connection method with Handy GOT Chapter 22 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)

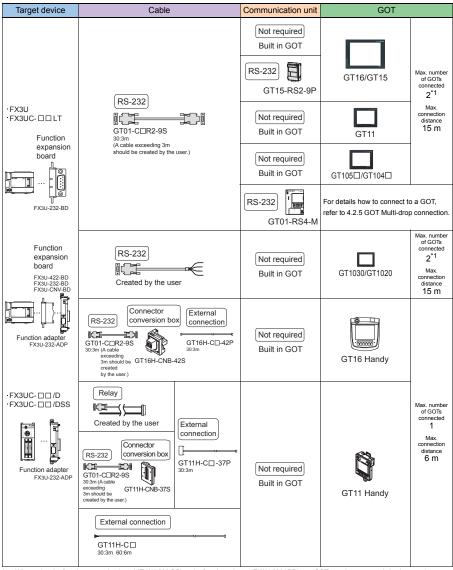
- For connection method with GT SoftGOT1000
- · For controllers that can be monitored by GT SoftGOT1000 and accessible range
 - Manual for GT Works3 (SH-080860ENG)
- For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

Chapter 2 in GT SoftGOT1000 Version3 Operating

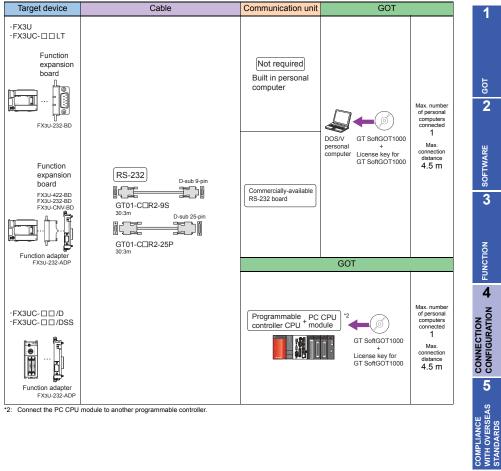
FX series (FX3U, FX3UC)

System configuration -

1) RS-232



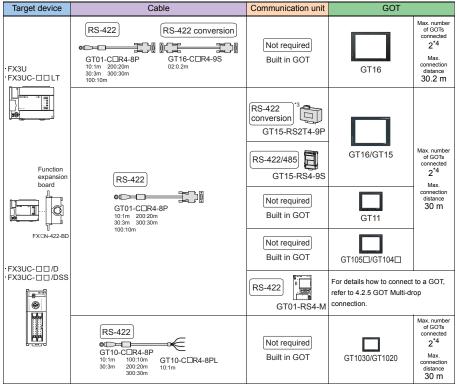
*1: When using the function expansion board (FX3U-232-DB) or the function adapter (FX3U-232ADP), two GOTs can be connected simultaneously to FXCPU and the function expansion board/function adapter.



*2: Connect the PC CPU module to another programmable controller.

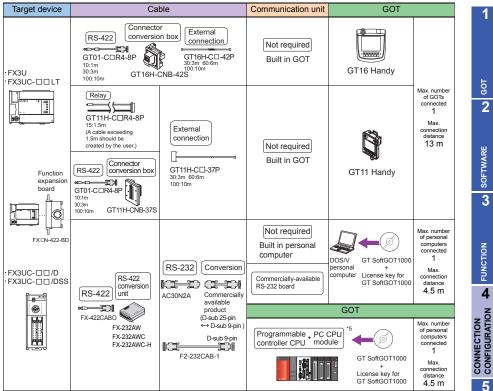
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2) RS-422



*3: Use GT15-RS4-9S for using GT155

 When using the function expansion board (FX3U-232-DB), two GOTs can be connected simultaneously to FXCPU and the function expansion board/ function adapter.



*5: Connect the PC CPU module to another programmable controller.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used	
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)	
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)	
Handy GOT		RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD	
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)	
0115		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)	
		RS-232 or RS-422 connections	GT115Q_BD	
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA	
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD	
	GT105	RS-232 or RS-422 connections	GT105Q_BD	
	GT104	RS-232 or RS-422 connections	GT104Q_BD	
		RS-232 connection	GT1030-L_D2/L_DW2, GT1020-L_D2/L_DW2	
GT10 GT1030 GT1020	GT1030		GT1030-L_D/L_DW, GT1030-L_L/L_LW, GT1020-L_D/L_DW,	
			GT1020-L_L/L_LW	
			(For GT1030-L_L/L_LW, GT1020-L_L/L_LW, MELSEC-FXCPU connection is available only.)	

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COMPLIANCE WITH OVERSEAS STANDARDS



Precautions on system

 The function expansion boards and function adapters that can be connected to the GOT are the FX3U-232-BD, FX3U-422-BD, and FX3U-232ADP only.

Precautions on setup

When connecting or disconnecting converter/cable for GT SoftGOT1000

- When connecting or disconnecting converter/cable that receives 5VDC power When connecting or disconnecting the converter/cable that receives 5VDC power from a programmable controller, power off the programmable controller and start working.
- When connecting or disconnecting converter/cable that does not receive 5VDC power When connecting or disconnecting peripheral devices and the cables that do not receive 5VDC power from a programmable controller (receives the power from an external power supply), follow the procedure as below.
 - 1) Be sure to use an earth band or touch a grounded metal object before working to discharge the static electricity from the cables, human body, and others.
 - 2) Power off the personal computer.
 - 3) Power off the converter. When the converter/cable have an FG terminal, ground it.
 - Connect/disconnect the converter/cable between the personal computer and programmable controller.
 - 5) Power on the converter.
 - 6) Power on the personal computer.
 - 7) Start up the software package.

Other precautions

- When a keyword is registered for the FXCPU (FX3U/FX3UC series), the GOT may not monitor the CPU. Execute the I/O check again. When the I/O check result is normal, check the keyword registration of the CPU.
- When connecting the FX-232AWC-H to the FX3UCCPU, the transmission speed of 600, 19200, 38400, 57600, or 115200bps can be used.

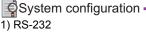
When connecting the FX-232AWC or FX-232AW to the FX3UCCPU, the transmission speed of 9600 or 19200bps can be used.

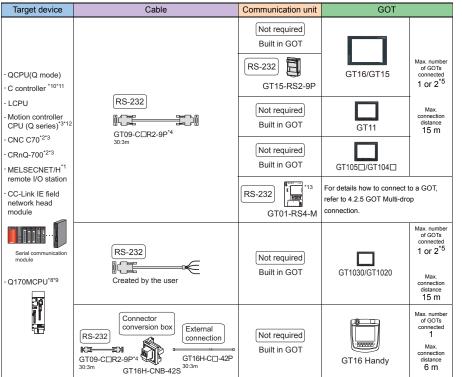
Related Manuals •

*	
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of direct CPU connection 	Chapter 6 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)
For the accessible range that can be monitored by GOT	Chapter 3 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)
For connection method with Handy GOT	Chapter 19 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 22 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)
For connection method with GT SoftGOT1000 For controllers that can be monitored by GT SoftGOT1000 and accessible range	Chapter 2 in GT SoftGOT1000 Version3 Operating Manual for GT Works3 (SH-080860ENG)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

QCPU (Q mode)/C controller/LCPU/Motion controller CPU (Q series) /CNC C70/Robot controller





*1: Available only for GT16, GT15, GT11, and Handy GOT.

*2: Available only for GT16, GT15, GT11, Handy GOT, and GT SoftGOT1000

*3: Configure the multiple CPU system

Kecommended Product. Purchase the cable from Mitsubishi Electric System & Service Co., Ltd.
 When using QJ71C24N(-R2/R4)
 Si Ohy Q170MCPU programmable controller CPU (No.1) can be connected with GT SoftGOT1000.

*9: Connect to the first stage of an extension base unit (Q52B/Q55B).

*10: Use a model whose the first five digits of the serial number are 12042 or later.

*11: Use the serial port of the serial communication module controlled by another station in the multiple CPU system.

*12: Available only for GT16, GT15, GT11, GT10, and Handy GOT.

*13: Available only for QCPU.

GOT

2

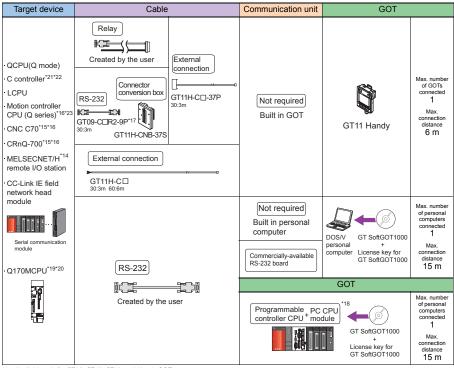
SOFTWARE

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CONNECTION CONFIGURATION **A** FUNCTION

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COMPLIANCE WITH OVERSEAS STANDARDS



*14: Available only for GT16, GT15, GT11, and Handy GOT. *15: Available only for GT16, GT15, GT11, Handy GOT, and GT SoftGOT1000

*16: Configure the multiple CPU system.

*17: Recommended Product. Purchase the cable from Mitsubishi Electric System & Service Co., Ltd.

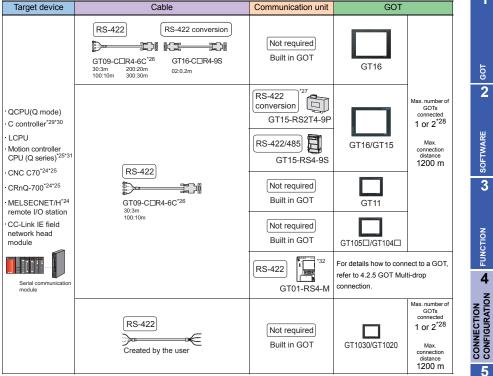
*18: Connect the PC CPU module to another programmable controller.
 *19: Only Q170MCPU programmable controller CPU (No.1) can be connected with GT SoftGOT1000.

*20: Connect to the first stage of an extension base unit (Q52B/Q55B).

*21: Use a model whose the first five digits of the serial number are 12042 or later.

- *22: Use the serial port of the serial communication module controlled by another station in the multiple CPU system.
- *23: Available only for GT16, GT15, GT11, GT10, and Handy GOT.

2) RS-422



*24: Available only for GT16, GT15, GT11, and Handy GOT.

*25: Configure the multiple CPU system.

*26: Recommended Product. Purchase the cable from Mitsubishi Electric System & Service Co., Ltd.

*27: Use GT15-RS4-9S for using GT155

*28: When using QJ71C24N(-R2/R4)

*29: Use a model whose the first five digits of the serial number are 12042 or later.

*30: Use the serial port of the serial communication module controlled by another station in the multiple CPU system.

*31: Available only for GT16, GT15, GT11, GT10, and Handy GOT.

*32: Available only for QCPU.

5

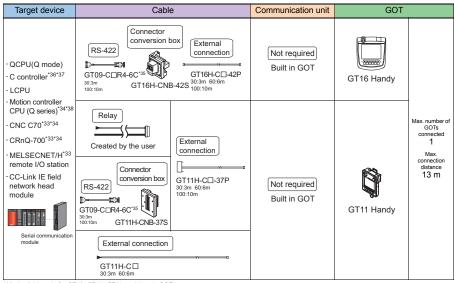
COMPLIANCE WITH OVERSEAS STANDARDS

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EQUIPMENT, SOFTWARE, AND MANUALS

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GLOSSARY



*33: Available only for GT16, GT15, GT11, and Handy GOT. *34: Configure the multiple CPU system.

*35: Recommended Product. Purchase the cable from Mitsubishi Electric System & Service Co., Ltd.

*36: Use a model whose the first five digits of the serial number are 12042 or later.

Vise the serial port of the serial communication module controlled by another station in the multiple CPU system.
 Available only for GT16, GT15, GT11, GT10, and Handy GOT.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)
Connections other than RS-232 All the mo		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA
	Handy GOT	RS-232 or RS-422 connections	GT115 HS-Q BD
	GT105	RS-232 or RS-422 connections	GT105Q_BD
	GT104	RS-232 or RS-422 connections	GT104Q_BD
		RS-232 connection	GT1030-L_D2/L_DW2, GT1020-L_D2/L_DW2
GT10	GT1030		GT1030-L_D/L_DW, GT1030-L_L/L_LW, GT1020-L_D/L_DW,
	GT1030		GT1020-L_L/L_LW
			(For GT1030-L L/L LW, GT1020-L L/L LW, MELSEC-FXCPU connection is
	1		available only.)

Available module

Serial communication module/Computer link module ^{*39}						
Model	CH1	CH2				
QJ71C24 ^{*40}	RS-232	RS-422/485				
QJ71C24-R2 ^{*40}	RS-232	RS-232				
QJ71C24N	RS-232	RS-422/485				
QJ71C24N-R2	RS-232	RS-232				
QJ71C24N-R4*41	RS-422/485	RS-422/485				
QJ71CMO ^{*42}	Modular connector	RS-232				
QJ71CMON ^{*42}	Modular connector	RS-232				
LJ71C24	RS-232	RS-422/485				
LJ71C24-R2	RS-232	RS-232				

*39 Communications via the RS-485 interface cannot be executed. A0J2-C214-S1 cannot be used.

*40 Either CH1 or CH2 can be used for the function version A. CH1 can be used with CH2 for the function version B or later.

*41 Not available for GT SoftGOT1000.

*42 Connectable only with CH2.

Precautions

Precautions on system

- Connecting the GOT directly to Basic model QCPU is recommended. The GOT is not applicable to the serial communication function for Basic model QCPU.
- Connect a terminating resistor (330 Ω, 1/4W (orange, orange, brown, □)) to the serial communication module/computer link module.

The GOT has a built-in terminating resistor.

Other precautions

- For connecting the GOT to the multiple CPU system (Q00CPU, Q01CPU, Q02CPU, Q02HCPU, Q06HCPU, Q12HCPU, and Q25HCPU), use CPUs with the function version B or later.
- When connecting to motion controller CPU (Q series)
 For Q172CPU or Q173CPU

Use the motion controller CPU with the following production numbers.

Q172CPU with N******* or later, Q173CPU with M******* or later

For Q172CPU, Q173CPU, Q172CPUN, or Q173CPUN
 For using the SV13, SV22, and SV43, use a motion controller with the following OS installed.
 SW6RN-SV13Q : 00H or later, SW6RN-SV22Q : 00H or later, SW6RN-SV43Q : 00B or later

Related Manuals		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of computer link connection 		Chapter 7 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)
For the accessible range that can be monitored by GOT	\triangleright	Chapter 3 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)
For connection method with Handy GOT		Chapter 20 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 22 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)
 For connection method with GT SoftGOT1000 For controllers that can be monitored by GT SoftGOT1000 and accessible range 	\triangleright	Chapter 2 in GT SoftGOT1000 Version3 Operating Manual for GT Works3 (SH-080860ENG)
* Ear restrictions and pressutions on controllers of	onnecto	ad to a COT refer to the manual for each controller

For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

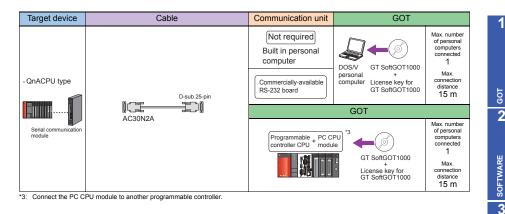
QnACPU type

System configuration —

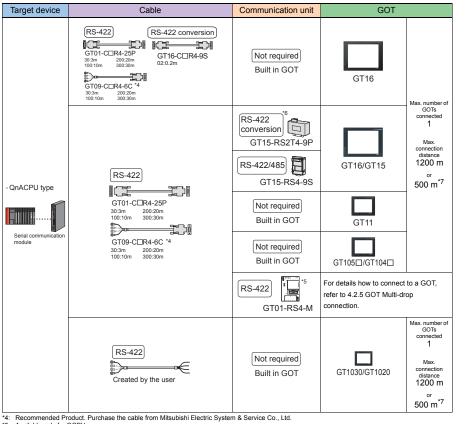
1) RS-232

Target device	Cable	Communication unit	GOT	
	RS-232	Not required Built in GOT RS-232	GT16/GT15	Max. number of GOTs connected 1
	GT09-CCR2-9P ¹¹ 30:3m	Not required Built in GOT	GT11	Max. connection distance 15 m
	∭ L_s⊟ ∐ GT09-C⊡R2-25P ^{*1} 30:3m	Not required Built in GOT	GT105□/GT104□	
		RS-232	For details how to connect to to 4.2.5 GOT Multi-drop conn	
· QnACPU type	RS-232 ■C I ≪	Not required Built in GOT	GT1030/GT1020	Max. number of GOTs connected 1 Max.
	Created by the user	Duncin Co T		connection distance 15 m
Serial communication module	Connector conversion box GT09+CIR2-9P'1 CT16H-CL-42P GT16H-CL-42P GT16H-CL-42P GT16H-CL-42P GT16H-CL-42P GT16H-CL-42P GT16H-CL-42P	Not required Built in GOT	GT16 Handy	
	Relay Created by the user Connector conversion box Created by the user Connector conversion box Connector	Not required Built in GOT	GT11 Handy	Max. number of GOTs connected 1 Max. connection distance 6 m

*1: Recommended Product. Purchase it from Mitsubishi Electric System & Service Co., Ltd. *2: Available only for QCPU.



2) RS-422



*5: Available only for QCPU.

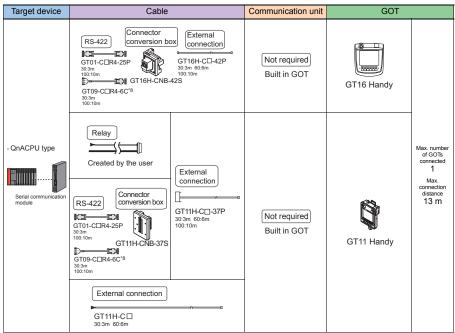
*6: Use GT15-RS4-9S for using GT155

When using A1SJ71UC24 *7:

4.1.5 Computer link connection

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*8: Recommended Product. Purchase it from Mitsubishi Electric System & Service Co., Ltd.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used	
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)	
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)	
	Handy GOT RS-232, RS-422/485 or Ethernet connection		GT1665HS-VTBD	
GT15		RS-232 connection All the models (built-in interfaces of the GOT main unit)		
GTI5		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)	
		RS-232 or RS-422 connections	GT115Q_BD	
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA	
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD	
	GT105	RS-232 or RS-422 connections	GT105Q_BD	
	GT104	RS-232 or RS-422 connections	GT104Q_BD	
		RS-232 connection	GT1030-L_D2/L_DW2, GT1020-L_D2/L_DW2	
GT10	GT1030		GT1030-L_D/L_DW, GT1030-L_L/L_LW, GT1020-L_D/L_DW,	
	GT1020		GT1020-L_L/L_LW	
			(For GT1030-L_ L/L_ LW, GT1020-L_ L/L_ LW, MELSEC-FXCPU connection is available only.)	

Available module

Serial communication module/Computer link module'9		
Model	CH1	CH2
AJ71QC24*10	RS-232	RS-422/485
AJ71QC24-R2 ^{*10}	RS-232	RS-232
AJ71QC24-R4 ^{*10*11}	RS-422	RS-422/485
AJ71QC24N ^{*10}	RS-232	RS-422/485
AJ71QC24N-R2*10	RS-232	RS-232
AJ71QC24N-R4*10*11	RS-422	RS-422/485
A1SJ71QC24*10	RS-232	RS-422/485
A1SJ71QC24-R2*10	RS-232	RS-232
A1SJ71QC24N*10	RS-232	RS-422/485
A1SJ71QC24N-R2*10	RS-232	RS-232
A1SJ71QC24N1*10	RS-232	RS-422/485
A1SJ71QC24N1-R2*10	RS-232	RS-232
AJ71UC24*10*12	RS-232	RS-422/485
A1SJ71UC24-R2 ^{*12}	RS-232	-
A1SJ71UC24-R4 ^{*12}	RS-422/485	-

*9 Communications via the RS-485 interface cannot be executed. A0J2-C214-S1 cannot be used. When the A series computer link module is used with the QnACPU, the devices that can be monitored are only devices with the same name as the devices in the device range of the AnACPU. Note that the following devices cannot be monitored.

- · Devices newly added to the QnACPU
- Latch relays (L) and step relays (S)

(For the QnACPU, the latch relay (L) and step relay (S) are different from the internal relay (M). However, the internal relay is accessed even if the latch relay or the step relay is specified.)

- File register (R)
- *10 Either CH1 or CH2 can be used.
- *11 Not available for GT SoftGOT1000.
- The module operates in the device range of the AnACPU. (The R device is not available.) *12

Precautions

Precautions on system

Connect a terminating resistor (330 Ω , 1/4W (orange, orange, brown, \Box)) to the serial communication module/computer link module. The GOT has a built-in terminating resistor.

Precautions on setup

When the A series computer link module is used with the QnACPU, the QnACPU cannot be monitored with GT SoftGOT1000

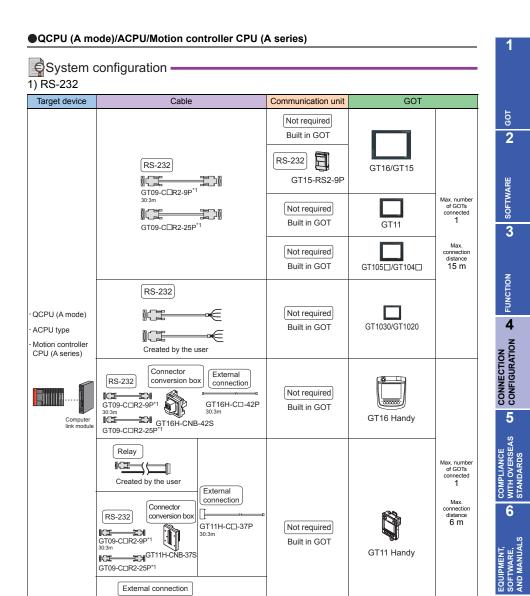
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Related Manuals		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of computer link connection 		Chapter 7 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)
For the accessible range that can be monitored by GOT		Chapter 3 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)
For connection method with Handy GOT		Chapter 20 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 22 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)
 For connection method with GT SoftGOT1000 For controllers that can be monitored by GT SoftGOT1000 and accessible range 	\triangleright	Chapter 2 in GT SoftGOT1000 Version3 Operating Manual for GT Works3 (SH-080860ENG)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.



External connection

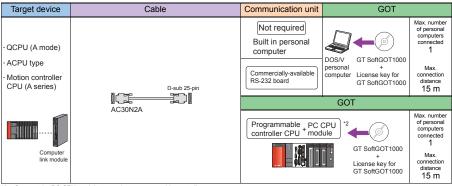
*1: Recommended Product. Purchase it from Mitsubishi Electric System & Service Co., Ltd.

GT11H-C 30:3m 60:6m

> 4.1 MITSUBISHI Programmable Controller 4.1.5 Computer link connection

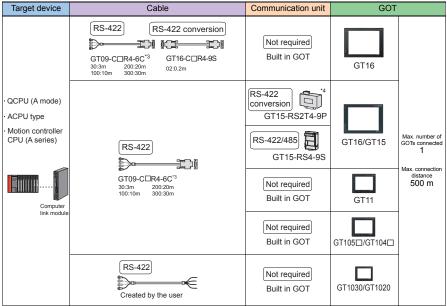
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GLOSSARY



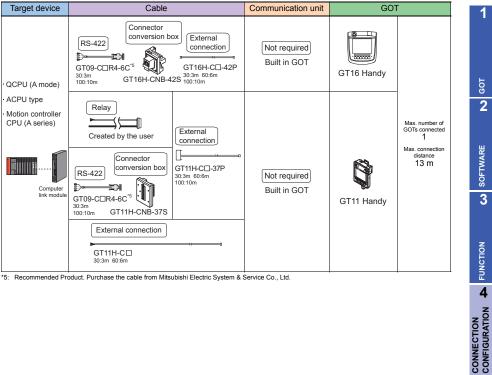
*2: Connect the PC CPU module to another programmable controller.

2) RS-422



*3: Recommended Product. Purchase the cable from Mitsubishi Electric System & Service Co., Ltd.

*4: Use GT15-RS4-9S for using GT155



*5: Recommended Product. Purchase the cable from Mitsubishi Electric System & Service Co., Ltd.

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COMPLIANCE WITH OVERSEAS STANDARDS

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The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used		
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)		
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)		
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD		
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)		
		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)		
		RS-232 or RS-422 connections	GT115Q_BD		
		Bus connection	GT115 -Q BDQ, GT115 -Q BDA		
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD		
	GT105	RS-232 or RS-422 connections	GT105 -Q BD		
GT10 G	GT104	RS-232 or RS-422 connections	s GT104Q_BD		
		RS-232 connection	GT1030-L_D2/L_DW2, GT1020-L_D2/L_DW2		
	GT1030		GT1030-L_D/L_DW, GT1030-L_L/L_LW, GT1020-L_D/L_DW,		
	GT1020	RS-422 connection	GT1020-L_L/L_LW		
			(For GT1030-L L/L LW, GT1020-L L/L LW, MELSEC-FXCPU connection is available only.)		

Available module

CPU series	Serial communication module/Computer link module ^{*6}			
GFU Series	Model	CH1	CH2	
MELSEC-Q series (A mode)	A1SJ71UC24-R2	RS-232	-	
	A1SJ71UC24-R4*9	RS-422/485	-	
MELSEC-A series Motion controller CPU (A series)	AJ71UC24*7*8	RS-232	RS-422/485	
	AJ71C24-S8*11	RS-232	RS-422	
	A1SJ71UC24-R2*8	RS-232	-	
	A1SJ71UC24-R4 ^{*8*9}	RS-422/485	-	
	A1SJ71C24-R2*8*10	RS-232	-	
	A1SJ71C24-R4*8*9*10	RS-422/485	-	
	A1SCPUC24-R2*8	RS-232	-	
	A2CCPUC24*7	RS-232	RS-422/485	

*6 Communications via the RS-485 interface cannot be executed. A0J2-C214-S1 cannot be used.

*7 Either CH1 or CH2 can be used.

*8 When connecting to A1SHCPU, A2SCPU (S1), A2SHCPU (S1), A1SJHCPU, A0J2HCP, A171SHCPU (N), or A172SHCPU, use the computer link module with the software version U or later.

*9 Not available for GT SoftGOT1000.

- *10 The module operates in the device range of the AnACPU. (The R device is not available.)
- *11 Available only for GT SoftGOT1000.

Precautions

Precautions on system

 Connect a terminating resistor (330Ω, 1/4W (orange, orange, brown, □)) to the serial communication module/computer link module.

The GOT has a built-in terminating resistor.

• The motion controller (A series) cannot be connected to the remote I/O station.

Precautions on setup

- When connecting GT11 to A series computer link module
- When connecting the GT11 to the A series computer link module via the RS-232 communication, set the buffer memory for the module without checking the CD signal.

WRelated Manuals —		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of computer link connection 		Chapter 7 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)
For the accessible range that can be monitored by GOT	\triangleright	Chapter 3 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)
For connection method with Handy GOT		Chapter 20 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 22 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)
 For connection method with GT SoftGOT1000 For controllers that can be monitored by GT SoftGOT1000 and accessible range 		Chapter 2 in GT SoftGOT1000 Version3 Operating Manual for GT Works3 (SH-080860ENG)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

GLOSSARY

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SOFTWARE

CONNECTION **FUNCTION**

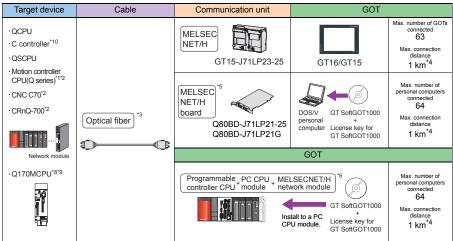
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COMPLIANCE WITH OVERSEAS STANDARDS

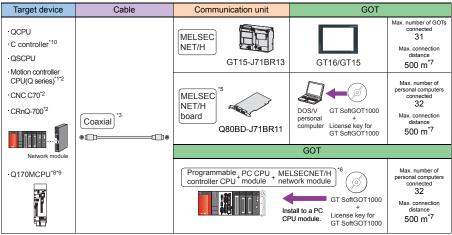
4.1.6 MELSECNET/H connection

System configuration

1) Optical loop



2) Coaxial bus



*1: GT SoftGOT1000 is not available.

*2: Configure the multiple CPU system

*3: For the cable type to be used, refer to the MELSECNET/H reference manual.

*4: Distance between stations for using the QSI optical cable.

- The overall extension cable length and the length between stations differ depending on the cable type to be used and the total number of stations. For details, refer to the MELSECNET/H reference manual.
- *5: When connecting to the Q redundant system, use the version K or later for the MELSECNET/H board driver (SW0DNC-MNETH-B).

 Connect the PC CPU module to another programmable controller.
 To istance between stations for using the 5C-2V coaxial cable. The overall extension cable length and the length between stations differ depending on the cable type to be used and the total number of stations. For details, refer to the MELSECNET/H reference manual.

- *8: Only Q170MCPU programmable controller CPU (No.1) can be connected with GT SoftGOT1000.
- *9: Connect to the first stage of an extension base unit (Q52B/Q55B).
- *10: Use a model whose the first five digits of the serial number are 12042 or later.

Available module

CPU series	MELSECNET/H module		
	Optical loop	Coaxial bus	
MELSEC-Q series (Q mode)*11 MELSEC-QS series	QJ71LP21 QJ71LP21-25 QJ71LP21S-25	QJ71BR11 ^{*11}	
C controller	QJ71LP21-25 QJ71LP21S-25	QJ71BR11*11	

*11 Use the CPU and MELSECNET/H network module with the function version B or later. 1

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Precautions

Precautions on system

- Connectable network
 - A GOT is connected to the following network systems as a normal station.
 - Optical loop system of MELSECNET/H network system (programmable controller to programmable controller network)
 - Coaxial bus system of MELSECNET/H network system (programmable controller to programmable controller network)
- When using MELSECNET/H network module

When connecting the MELSECNET/H network module to MELSECNET/H network system, set the network type to the MELSECNET/H mode or the MELSECNET/H extended mode.

Creating network

For the network where a GOT is connected, create a MELSECNET/H network (programmable controller to programmable controller network).

The GOT cannot be connected to the following network.

- MELSECNET/H system (remote I/O network)
- Applicable range for monitoring

A GOT can only monitor a programmable controller on the network where the GOT is connected. Note that the routing parameter setting is required when monitoring the programmable controller CPU on the other network.

Network type setting

- When setting the network type, set all the network modules in the same network to the same network type.
 - (The MELSECNET/H mode and MELSECNET/H extended mode cannot be set simultaneously.)
- For the MELSECNET/H connection with the redundant QCPU system, the network type cannot be set to [MNET/H EXT mode].
- When connecting to QCPU (Q mode) For MELSECNET/H network module and QCPU (Q mode), use the function version B or later.
- The motion controller (A series) cannot be connected to the remote I/O station.
- When using the QSCPU

The GOT can only read device data and sequence programs by the ladder monitor function in the QSCPU.

The GOT cannot write any data to the QSCPU.

Precautions on setup

- When changing the switch setting When changing the switch setting after installing the MELSECNET/H communication unit on the GOT, reset the GOT.
- Correctly solder the connector for the coaxial cable. Incomplete soldering causes malfunctions.

Other precautions

- For connecting the GOT to the multiple CPU system (Q00CPU, Q01CPU, Q02CPU, Q02HCPU, Q06HCPU, Q12HCPU, and Q25HCPU), use CPUs with the function version B or later.
- In the redundant QCPU system, the MELSECNET/H extended mode is not available.
- When connecting to motion controller CPU (Q series)
 For Q172CPU or Q173CPU Use the motion controller CPU with the following production numbers. Q172CPU with N****** or later, Q173CPU with M****** or later
 - For Q172CPU, Q173CPU, Q173CPU, or Q173CPUN, or Q173CPUN For using the SV13, SV22, and SV43, use a motion controller with the following OS installed. SW6RN-SV13Q : 00H or later, SW6RN-SV22Q : 00H or later, SW6RN-SV43Q : 00B or later

Related Manuals		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of MELSECNET/H connection 		Chapter 9 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)
For the accessible range that can be monitored by GOT		Chapter 3 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)
 For connection method with GT SoftGOT1000 For controllers that can be monitored by GT SoftGOT1000 and accessible range 	\triangleright	Chapter 2 in GT SoftGOT1000 Version3 Operating Manual for GT Works3 (SH-080860ENG)
* For restrictions and precautions on controllers of	onnecto	d to a COT refer to the manual for each controller

For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

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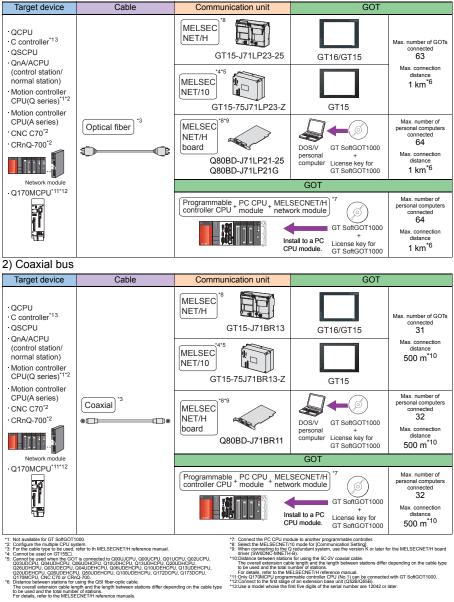
SOFTWARE

EQUIPMENT, SOFTWARE, AND MANUALS

4.1.7 MELSECNET/10 connection

System configuration

1) Optical loop



Available module

CPU series	MELSECNET/H module (NET/10 mode), MELSECNET/10 module			
	Optical loop	Coaxial bus		
MELSEC-Q series (Q mode)*14 MELSEC-QS series	QJ71LP21 QJ71LP21-25 QJ71LP21S-25	QJ71BR11*14		
C controller	QJ71LP21-25 QJ71LP21S-25	QJ71BR11 ^{*14}		
MELSEC-QnA series	AJ71QLP21 AJ71QLP21S A1SJ71QLP21 A1SJ71QLP21 A1SJ71QLP21S	AJ71QBR11 A1SJ71QBR11		
MELSEC-Q series (A mode) MELSEC-A series Motion controller CPU (A series)	AJ71LP21 A1SJ71LP21	AJ71BR11 A1SJ71BR11		

*14 Use the CPU and MELSECNET/H network module with the function version B or later.

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Precautions

Precautions on system

- Connectable network
 - A GOT is connected to the following network systems as a normal station.
 - Optical loop system of MELSECNET/10 network system (programmable controller to programmable controller network)
 - Coaxial bus system of MELSECNET/10 network system (programmable controller to programmable controller network)
- When using MELSECNET/H network module

When connecting the MELSECNET/H network module to MELSECNET/10 network system, set the network type to the MELSECNET/10 mode.

Creating network

For the network where a GOT is connected, create a MELSECNET/H network system (programmable controller to programmable controller network) with the MELSECNET/10 mode or a MELSECNET/10 network system (programmable controller to programmable controller network).

The GOT cannot be connected to the following networks.

- MELSECNET/H network system (remote I/O network)
 MELSECNET/10 network system (remote I/O network)
- MELSECNET/10 network system (remote I/O net
- Applicable range for monitoring

A GOT can only monitor a programmable controller on the network where the GOT is connected. Note that the routing parameter setting is required when monitoring the programmable controller CPU on the other network.

The routing parameter cannot be set with the GT15-75J71LP23-Z and GT15-75J71BR13-Z. Use the GT15-J71LP23-25 or GT15-J71BR13 to set the routing parameter.

 When connecting to QCPU (Q mode) For MELSECNET/H network module and QCPU (Q mode), use the function version B or later.

With the redundant QCPU system, the MELSECNET/H extended mode is not available.

When using the QSCPU

The GOT can only read device data and sequence programs by the ladder monitor function in the QSCPU.

The GOT cannot write any data to the QSCPU.

Precautions on setup

- When changing the switch setting When changing the switch setting after installing the MELSECNET/H or MELSECNET/10 communication unit on the GOT, reset the GOT.
- Correctly solder the connector for the coaxial cable. Incomplete soldering causes malfunctions.

Other precautions

- For connecting the GOT to the multiple CPU system (Q00CPU, Q01CPU, Q02CPU, Q02HCPU, Q06HCPU, Q12HCPU, and Q25HCPU), use CPUs with the function version B or later.
- The motion controller (A series) cannot be connected to the remote I/O station.
- When connecting to motion controller CPU (Q series)

 For Q172CPU or Q173CPU Use the motion controller CPU with the following production numbers. Q172CPU with N****** or later, Q173CPU with M******* or later
 For Q172CPU, Q173CPU, Q173CPUN, or Q173CPUN
 For using the SV13, SV22, and SV43, use a motion controller with the following OS installed.
 SW6RN-SV13Q: 00H or later, SW6RN-SV22Q: 00H or later, SW6RN-SV43Q: 00B or later

 Q172nDCPU, CNC C70, and CRnQ-700 only support MELSECNET/H (programmable controller to programmable controller network).

When connecting to MELSECNET/10 (programmable controller to programmable controller network), set MELSECNET/H (programmable controller to programmable controller network) to the MELSECNET/10 mode.



- · For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking of • MELSECNET/10 connection
- · For the accessible range that can be monitored by GOT

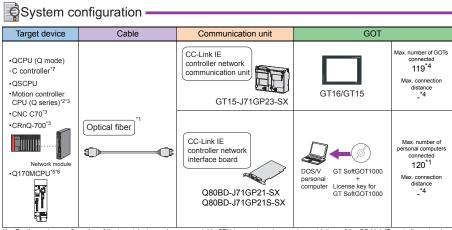
Chapter 10 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)

Chapter 3 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)

>For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

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*1: For the system configuration of the target device such as connectable CPU type and version, version restrictions of the CC-Link IE controller network module, cable, and the number of GOTs connected, refer to CC-Link IE Controller Network Reference Manual.

*2: GT SoftGOT1000 is not available.

*3: Configure the multiple CPU system *4: The overall extension cable length and the length between stations differ depending on the cable type to be used and the total number of stations.

- For details, refer to CC-Link IE Controller Network Reference Manual. *5: Only Q170MCPU programmable controller CPU (No.1) can be connected with GT SoftGOT1000.
- 6: Connect to the first stage of an extension base unit (Q52B/Q55B).
 *7: Use a model whose the first five digits of the serial number are 12042 or later.

Available module

CPU series	CC-Link IE controller network module
MELSEC-Q series (Q mode) C controller MELSEC-QS series	QJ71GP21-SX QJ71GP21S-SX

Precautions

Precautions on system

Applicable range for monitoring A GOT can only monitor a programmable controller on the network where the GOT is connected. Note that the routing parameter setting is required when monitoring the programmable controller CPU on the other network.

When using the QSCPU

The GOT can only read device data and sequence programs by the ladder monitor function in the QSCPU. The GOT cannot write any data to the QSCPU.

Related Manuals	
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of CC-Link IE controller network connection 	Chapter 11 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)
For the accessible range that can be monitored by GOT	Chapter 3 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)
 For connection method with GT SoftGOT1000 For controllers that can be monitored by GT SoftGOT1000 and accessible range 	Chapter 2 in GT SoftGOT1000 Version3 Operating Manual for GT Works3 (SH-080860ENG)
SoftGOT1000 and accessible range	Manual for GT Works3 (SH-080860ENG)

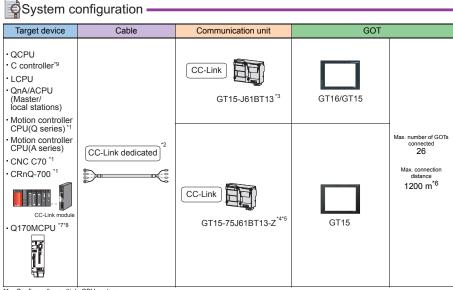
For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

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Configure the multiple CPU system. 1:

For the specifications and inquiries of the CC-Link dedicated cable, refer to the following website.

CC-Link Partner Association website: http://www.cc-link.org/eng/t_html/top.html

*3: For connection on the CC-Link network system Ver.2.

For connection on the CC-Link network system Ver.1, set the mode to Ver.1 in [Communication Setting].

*4: Cannot be used on GT155

 Cannot be used when the GOT is connected to Q00UJCPU, Q00UCPU, Q01UCPU, Q02UCPU, Q03UDCPU, Q04UDHCPU, Q06UDHCPU, Q10UDHCPU, Q13UDHCPU, Q26UDHCPU, Q03UDECPU, Q04UDHCPU, Q16UDHCPU, Q13UDHCPU, Q13UDH Q20UDEHCPU, Q26UDEHCPU, Q50UDEHCPU, Q100UDEHCPU, Q172DCPU, Q173DCPU, Q170MCPU, CNC C70 or CRnQ-700. *6: When the CC-Link dedicated cable of 156kbps is used

The maximum overall extension cable length and the cable length between stations differ depending on the cable type to be used or others.

*7: Only Q170MCPU programmable controller CPU (No.1) can be connected with GT SoftGOT1000.

*8: Connect to the first stage of an extension base unit (Q52B/Q55B).
*9: Use a model whose the first five digits of the serial number are 12042 or later.

Available module

CPU series	CC-Link module
MELSEC-Q series (Q mode)	QJ61BT11
C controller	QJ61BT11N*10
MELSEC-L	LJ61BT11
MELSEC-QnA series	AJ61QBT11 A1SJ61QBT11
MELSEC-Q series (A mode) MELSEC-A series Motion controller CPU (A series)	AJ61BT11 A1SJ61BT11

*10 Use the model applicable to the CC-Link network system Ver.2 or the CC-Link network system Ver.1 with Ver.2.

GOT

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Precautions

Precautions on system

- When using cyclic transmission
 - (1) I/O signals from/to master station

Do not turn on reserved output signals among output signals from the master station to a GOT (remote output: RY).

When the reserved output signals are turned on, the programmable controller system may malfunction.

(2) Applicable range for monitoring

Applicable ranges for monitoring remote I/O (RX, RY) and remote register (RWr, RWw) differ depending on the master station mode of the CC-Link network system.

Mode of master station	Availability of monitoring			
wode of master station	Information of CC-Link Ver.1 compatible station	Information of CC-Link Ver.2 compatible station		
Remote network mode	0	-		
Remote network ver.1 mode	0	-		
Remote network ver.2 mode	0	O*1		
Remote network additional mode	0	O*1		

O: Monitoring enabled, X: Monitoring disabled (all 0), -: Creating system disabled *1 Available only for using GT15-J61BT13 type CC-Link communication unit.

- When using transient transmission
 - CC-Link module on target station

When using transient transmission to communicate with the following CC-Link modules, mount the CC-Link module with the function version B and the software version J or later on a programmable controller.

When communicating with the CC-Link module with the function version A and the software version I or earlier, only the cyclic transmission is available.

- AJ61BT11 A1SJ61BT11
- AJ61QBT11 A1SJ61QBT11
- (2) Accessible range for monitoring

A GOT can access a programmable controller CPU with the CC-Link module set as the master or local station. The GOT cannot access other networks via the CC-Link module.

Starting GOT with CC-Link connection (intelligent device station) When the CC-Link connection (intelligent device station) is used, the data link starts in about 10 minutes after starting the GOT.

Precautions on setup

When changing the switch setting after installing the GT15-75J65BT13-Z type CC-Link communication unit on a GOT, reset the GOT.

- Setting [Network parameters] of GX Developer
 - When [Mode] of the CC-Link module is set to [Remote net (Ver.2 mode)]. [Remote station points] can be set. The [Remote station points] setting is a setting for the remote I/O station. For a GOT, use the default value (32 points).
 - · Set the station information setting to [Ver.1 Intelligent device station] when [Mode] of the CC-Link module is set to [Remote net (Ver.2 mode)] or [Remote net(Additional mode)].

Other precautions

- When connecting to motion controller CPU (Q series) For Q172CPU or Q173CPU
 - Use the motion controller CPU with the following production numbers. Q172CPU with N****** or later, Q173CPU with M****** or later
 - For Q172CPU, Q173CPU, Q172CPUN, or Q173CPUN For using the SV13, SV22, and SV43, use a motion controller with the following OS installed. SW6RN-SV13Q : 00H or later, SW6RN-SV22Q : 00H or later, SW6RN-SV43Q : 00B or later
- For connecting the GOT to the multiple CPU system (Q00CPU, Q01CPU, Q02CPU, Q02HCPU, Q06HCPU, Q12HCPU, and Q25HCPU), use CPUs with the function version B or later.
- When an error related to the network occurs as the system alarm When an error related to the network occurs as the system alarm with the CC-Link connection (intelligent device station), the displayed system alarm cannot be erased even though the error factor is removed. Restart a GOT to erase the system alarm.

Related Manuals · For details of system configuration and connection cable

- · For precautions and restrictions
- For outlined procedure and checking of CC-Link connection



Chapter 12 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)

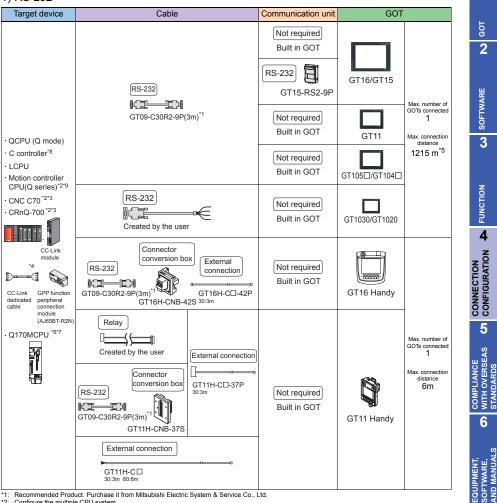
· For the accessible range that can be monitored by GOT

Chapter 3 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)

>For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller,

System configuration -

1) RS-232



*1: Recommended Product. Purchase it from Mitsubishi Electric System & Service Co., Ltd.

- *2: Configure the multiple CPU system. *3: Available only for GT16, GT15, GT11, and Handy GOT.

Available only for the GFL, GFLS, GFLS, and Handy GOL.
 For the specifications and inquiries of the CC-Link dedicated cable, refer to the following website.
 CC-Link Partner Association website: http://www.cc-link.org/eng/t_html/top.html
 When the CC-Link dedicated cable of 166Kbps (1200m) and the RS-232 cable (15m) are used.

- *6: Only Q170MCPU programmable controller CPU (No.1) can be connected with GT SoftGOT1000.
- *7: Connect to the first stage of the extension base unit (Q52B/Q55B).
- *8: Use a model whose the first five digits of the serial number are 12042 or later. *9: Available only for GT16, GT15, GT11, GT10, and Handy GOT.

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FUNCTION

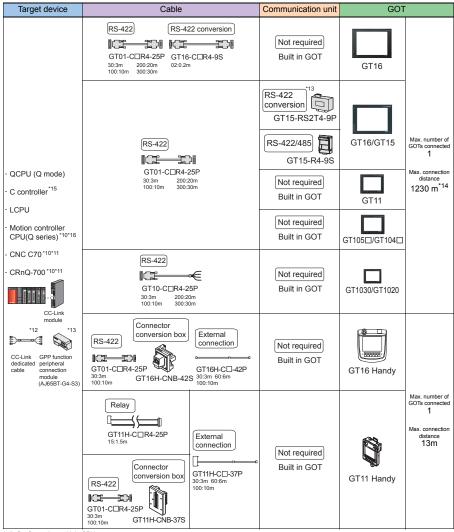
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2) RS-422 (via peripheral connection module)



*10: Configure the multiple CPU system

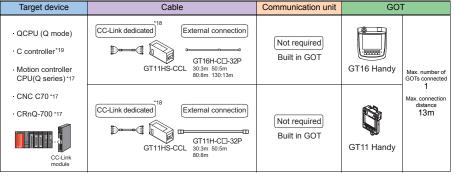
*11 Available only for GT16, GT15, GT11, and Handy GOT. *12. For the specifications and inquiriles of the CC-Link dedicated cable, refer to the following website. CC-Link Partner Association website: http://www.cc-link.org/eng/_html/top.html

*13: Use the GT15-R4-9S for GT155

*14: When the CC-Link dedicated cable of 156Kbps (1200m) and the RS-422 cable (30m) are used.

*15: Use a model whose the first five digits of the serial number are 12042 or later. *16: Available only for GT16, GT15, GT11, GT10, and Handy GOT.

3) RS-422



*17: Configure the multiple CPU system.

*18: For the specifications and inquiries of the CC-Link dedicated cable, refer to the following website.

CC-Link Partner Association website: http://www.cc-link.org/eng/t_html/top.html *19: Use a model whose the first five digits of the serial number are 12042 or later.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used	
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)	
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)	
Handy GOT	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD	
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)	
0115		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)	
		RS-232 or RS-422 connections	GT115Q_BD	
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA	
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD	
	GT105	RS-232 or RS-422 connections	GT105 -Q BD	
	GT104	RS-232 or RS-422 connections	GT104Q_BD	
		RS-232 connection	GT1030-L_D2/L_DW2, GT1020-L_D2/L_DW2	
GT10	GT1030		GT1030-L_D/L_DW, GT1030-L_L/L_LW, GT1020-L_D/L_DW,	
	GT1020		GT1020-L_L/L_LW	
			(For GT1030-L L/L LW, GT1020-L L/L LW, MELSEC-FXCPU connection is	
		available only.)		

Available module*20

CPU series	CC-Link module	GPP function peripheral connection module
MELSEC-Q series (Q mode)	QJ61BT11	AJ65BT-R2N
C controller	QJ61BT11N	AJ65BT-G4-S3

*20 GT11 and GT10 can monitor the master station only.

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CONNECTION CONFIGURATION **A** FUNCTION

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Precautions

Precautions on system

AJ65BT-G4 cannot be connected to a GOT.

Precautions on setup

- Setting [Network parameters] of GX Developer
 - When [Mode] of the CC-Link module is set to [Remote net (Ver.2 mode)], [Remote station points] can be set. The [Remote station points] setting is a setting for the remote I/O station. For a GOT, use the default value (32 points).
 - Set the station information setting to [Ver.1 Intelligent device station] when [Mode] of the CC-Link module is set to [Remote net (Ver.2 mode)] or [Remote net (Additional mode)].

Other precautions

- When connecting to motion controller CPU (Q series)
 - For Q172CPU or Q173CPU Use the motion controller CPU with the following production numbers. Q172CPU with N****** or later, Q173CPU with M****** or later
 - For Q172CPU, Q173CPU, Q172CPUN, or Q173CPUN
 For using the SV13, SV22, and SV43, use a motion controller with the following OS installed.
 SW6RN-SV13Q : 00H or later, SW6RN-SV22Q : 00H or later, SW6RN-SV43Q : 00B or later
- For connecting the GOT to the multiple CPU system (Q00CPU, Q01CPU, Q02CPU, Q02HCPU, Q06HCPU, Q12HCPU, and Q25HCPU), use CPUs with the function version B or later. For connecting the GOT to the Q17nDCPU, CNC C70, and CRnQ-700, set the system to the CC-Link network system Ver.2.

WRelated Manuals —		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of CC-Link connection 		Chapter 13 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)
For the accessible range that can be monitored by GOT	\triangleright	Chapter 3 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)
For connection method with Handy GOT		Chapter 22 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 22 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

4.1.11 Ethernet connection

QCPU/C controller/Safety controller/LCPU/Motion controller CPU (Q series)/ Motion controller CPU (A series)/CNC C70/Robot controller

System configuration Target device Cable GOT Communication unit +0 Not required Ethernet Built in GOT GT16 en b Max. number of QCPU GOTs connected 10BASE-T cable Ethernet 128*13 C controller*3*12 100BASE-TX cable (16 units or less are QSCPU recommended.) LCPU GT15 GT15-J71E71-100 Max connection distance QnA/ACPU Max. segment length Connector 100 m External conversion box Motion controller CPU (Q series)^{*1*3} Ethernet connection Not required Motion controller GT16H-C□-42P 10BASE-T Built in GOT CPU (A series) 30:3m 60:6m 100:10m cable GT16 Handy 100BASE-TX GT16H-CNB-42S CNC C70 *1*2 CRnQ-700 *1 Max. number of Not required personal computers connected MELSECNET/H Built in personal 128^{*6} remote I/O computer station *3 (16 units or less are DOS/V GT SoftGOT1000 recommended.) personal License key for computer Max. connection Commercially-available distance segment length GT SoftGOT1000 Max Ethernet Ethernet Ethernet board 100 m Q170MCPU *9*10*11 GOT 10BASE-T cable Max. number of 100BASE-TX cable personal computers connected Programmable PC CPU controller CPU module 128^{*6} (16 units or less are GT SoftGOT1000 recommended.) Max connection License key for distance GT SoftGOT1000 segment length Max 100 m

Configure the multiple CPU system. *1:

*2: Connecting to Display I/F

*3: GT SoftGOT1000 is not available.

- *4. Use a cable that supports an Ethernet module and Ethernet board/card to be used.
- *5: For available Ethernet boards/cards, refer to the following page
- *6: The number of total GT SoftGOT 1000 running in personal computer is included.
- *7: Connect the PC CPU module to another programmable controller.
- *8: When connecting GT16 of function version A to an equipment that meets the 10BASE (-T/2/5) standard, use the switching hub and operate in an environment where 10Mbps and 100Mbps can be mixed.
- *9: Only Q170MCPU programmable controller CPU (No.1) can be connected with GT SoftGOT1000.
- *10: Connect to the first stage of an extension base unit (Q52B/Q55B). *11: PERIPHERAL I/F is not available.
- 12: Use a model whose the first five digits of the serial number are 12042 or later.
- *13: Up to 16 GOTs can be connected when connecting GT16 or GT16 and universal model QCPU/C controller/LCPU.

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Available module

CPU series		Ethernet module*13		
MELSEC-Q series (Q mode) MELSEC-QS series	QJ71E71-100 QJ71E71-B5 QJ71E71-B2 QJ71E71			
MELSEC-QnA series	AJ71QE71N3-T AJ71QE71N-B5 AJ71QE71N-B2 AJ71QE71N-T AJ71QE71N-B5T AJ71QE71 AJ71QE71-B5	A1SJ71QE71N3-T A1SJ71QE71N-B5 A1SJ71QE71N-B2 A1SJ71QE71N-T A1SJ71QE71N-B5T A1SJ71QE71-B5 A1SJ71QE71-B5 A1SJ71QE71-B2		
MELSEC-Q series (A mode) MELSEC-A series Motion controller CPU (A series)	AJ71E71N3-T AJ71E71N-B5 AJ71E71N-B2 AJ71E71N-T AJ71E71N-B5T AJ71E71N-B5T AJ71E71-S3	A1SJ71E71N3-T A1SJ71E71N-B5 A1SJ71E71N-B2 A1SJ71E71N-T A1SJ71E71N-B5T A1SJ71E71-B5-S3 A1SJ71E71-B2-S3		

*13 When the A series Ethernet module is used for the QnACPU, the devices that can be monitored are only devices with the same name as the devices in the device range of the AnACPU.

Note that the following devices cannot be monitored.

Devices newly added to the QnACPU

• Latch relays (L) and step relays (S) (For the QCPU/QnACPU, the latch relay (L) and step relay (S) are different from the internal relay (M). However, the internal relay is accessed even if the latch relay or the step relay is specified.)

• File register (R)

Available Ethernet board/card for GT SoftGOT1000

Manufacturer	Model	Remark
3COM Corporation	EthernetLink III LAN PC Card	Ethernet board/card
-	Ethernet board included in personal computer as standard	Ethernet board

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Precautions

Precautions on system

The target device of an Ethernet cable differs depending on the Ethernet network system configuration to be used.

Connect the cable to the system devices, including Ethernet modules, hubs, and transceivers, according to the Ethernet network system to be used.

When connecting GT16 of function version A to an equipment that meets the 10BASE (-T/2/5) standard. use the switching hub and operate in an environment where 10Mbps and 100Mbps can be mixed. For how to check the function version, refer to the following. GT16 User's Manual (Hardware)

When connecting to the QnA(S)CPU type For the Ethernet module (QnA series) and programmable controller CPU (QnA/QnASCPU types), use the function version B or later.

- When connecting multiple network devices (including a GOT) to the same segment When multiple network devices (including a GOT) are connected to the same segment, the network load may increase, and the communication speed may slow down between the GOT and a programmable controller. The following actions can improve the communication performance.
 - · Use a switching hub.
 - Use the high-speed 100BASE-TX (100Mbps).
 - · Reduce the GOT monitoring points.
- The motion controller (A series) cannot be connected to the remote I/O station.
- Applicable range for monitoring

A GOT can monitor a programmable controller on the network where the GOT is connected and on the other networks. The routing parameter setting is required when monitoring a programmable controller CPU on the other networks.

When using the QSCPU

The GOT can only read device data and sequence programs by the ladder monitor function in the QSCPU.

The GOT cannot write any data to the QSCPU.

Other precautions

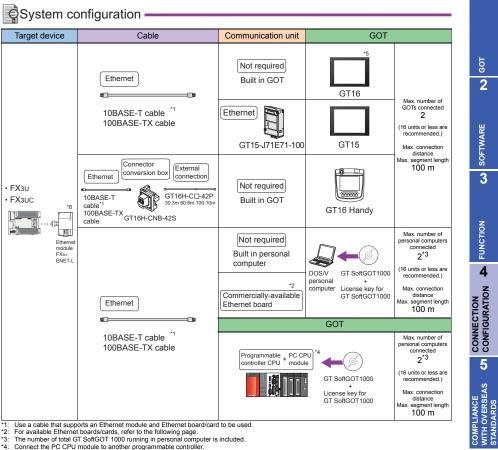
- When connecting to motion controller CPU (Q series)
 - For Q172CPU or Q173CPU Use the motion controller CPU with the following production numbers. Q172CPU with N****** or later. Q173CPU with M****** or later
 - For Q172CPU, Q173CPU, Q172CPUN, or Q173CPUN For using the SV13, SV22, and SV43, use a motion controller with the following OS installed. SW6RN-SV13Q : 00H or later, SW6RN-SV22Q : 00H or later, SW6RN-SV43Q : 00B or later
- For connecting the GOT to the multiple CPU system (Q00CPU, Q01CPU, Q02CPU, Q02HCPU, Q06HCPU, Q12HCPU, and Q25HCPU), use CPUs with the function version B or later.

When the A series Ethernet module is used for the QnACPU, the QnACPU cannot be monitored with GT SoftGOT1000.

Related Manuals		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of Ethernet connection 		Chapter 8 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)
 For controllers that can be monitored by GOT and accessible range 	\triangleright	Chapter 3 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)
For connection method with Handy GOT		Chapter 21 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202)
For connection method with GT SoftGOT1000 For controllers that can be monitored by GT SoftGOT1000 and accessible range		Chapter 2 in GT SoftGOT1000 Version3 Operating Manual for GT Works3 (SH-080860ENG)

SoftGO I 1000 and accessible range
 For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

FX series (FX3U, FX3UC)



*2: For available Ethernet boards/cards, refer to the following page.

*3: The number of total GT SoftGOT 1000 running in personal computer is included.

*4. Connect the PC CPU module to another programmable controller.

When connecting GT16 of function version A to an equipment that meets the 10BASE (-T/2/5) standard, use the switching hub and operate in an environment where 10Mbps and 100Mbps can be mixed. *5:

*6: When using an Ethernet module with the FX_{3UC} series, FX_{3UC}-1PS-5V or FX_{2NC}-CNV-IF is required.

Available module

CPU	series	Ethernet module	MEN
MELSEC-FX		FX3U-ENET-L	Ē

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Available Ethernet board/card for GT SoftGOT1000

Manufacturer	Model	Remark
3COM Corporation	EthernetLink III LAN PC Card	Ethernet board/card
-	Ethernet board included in personal computer as standard	Ethernet board

Precautions

Precautions on system

 The target device of an Ethernet cable differs depending on the Ethernet network system configuration to be used.

Connect the cable to the system devices, including Ethernet modules, hubs, and transceivers, according to the Ethernet network system to be used.

When connecting GT16 of function version A to an equipment that meets the 10BASE (-T/2/5) standard, use the switching hub and operate in an environment where 10Mbps and 100Mbps can be mixed. For how to check the function version, refer to the following.

GT16 User's Manual (Hardware)

- When connecting multiple network devices (including a GOT) to the same segment When multiple network devices (including a GOT) are connected to the same segment, the network load may increase, and the communication speed may slow down between the GOT and a programmable controller. The following actions can improve the communication performance.
 - · Use a switching hub.
 - Use the high-speed 100BASE-TX (100Mbps).
 - · Reduce the GOT monitoring points.
- Applicable range for monitoring

A GOT can monitor a programmable controller on the network where the GOT is connected and on the other networks. The routing parameter setting is required when monitoring a programmable controller CPU on the other networks.

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Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking of Ethernet connection
- For controllers that can be monitored by GOT and accessible range
- For connection method with Handy GOT
-
- For connection method with GT SoftGOT1000
- For controllers that can be monitored by GT SoftGOT1000 and accessible range

Chapter 8 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)

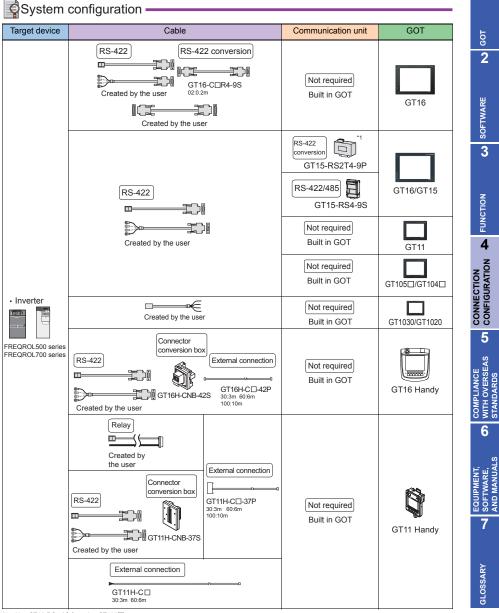
Chapter 3 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG) Chapter 21 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202)

Chapter 2 in GT SoftGOT1000 Version3 Operating Manual for GT Works3 (SH-080860ENG)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

4.2 Other MITSUBISHI controllers

4.2.1 Inverter connection



*1: Use GT15-RS4-9S for using GT155

Connectable models

Model	RS-422	RS-232
FREQROL-S500/S500E	0	×
FREQROL-E500	0	×
FREQROL-F500/F500L	0	×
FREQROL-F500J	0	×
FREQROL-A500/A500L	0	×
FREQROL-V500/V500L	0	×
FREQROL-E700	0	×
FREQROL-F700	0	×
FREQROL-A700	0	×
FREQROL-D700	0	×

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)
0115		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD
	GT105	RS-232 or RS-422 connections	GT105Q_BD
	GT104	RS-232 or RS-422 connections	GT104Q_BD
		RS-232 connection	GT1030-L_D2/L_DW2, GT1020-L_D2/L_DW2
GT10	0 GT1030	071000	GT1030-L_D/L_DW, GT1030-L_L/L_LW, GT1020-L_D/L_DW,
	GT1030		GT1020-L_L/L_LW
		(For GT1030-L_L/L_LW, GT1020-L_L/L_LW, MELSEC-FXCPU connection is	
			available only.)

Precautions

Precautions on system

Clock setting of GOT

The inverter does not have the clock function. Even though [Adjust] or [Broadcast] is set for the clock setting, the setting is invalid (not processed).

- Do not change various communication parameters of the inverter with a GOT. When the communication parameters of the inverter are changed, the GOT cannot communicate with the inverter.
- Be sure to use GD for the screen switching device and system information device.

WRelated Manuals —	
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of inverter connection 	Chapter 14 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)
For the accessible range that can be monitored by GOT	Chapter 3 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)
For connection method with Handy GOT	Chapter 23 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 53 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

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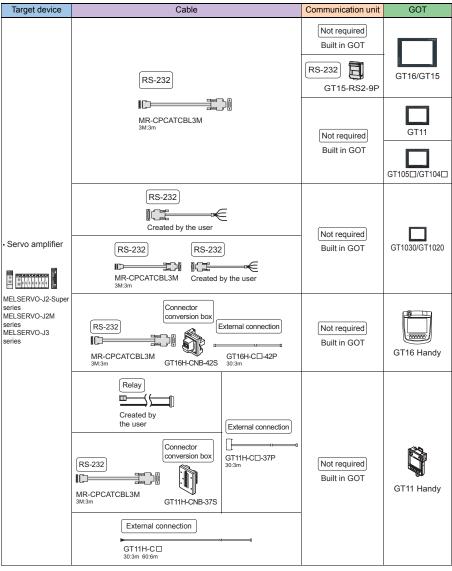
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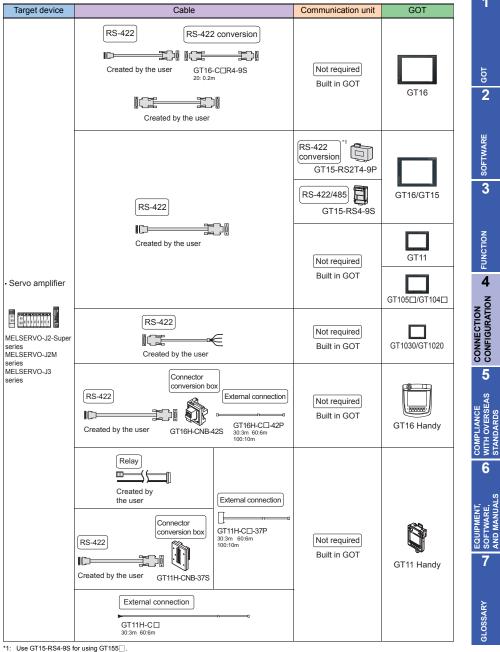
SOFTWARE

System configuration -

1) RS-232



2) RS-422



Connectable models

Model		RS-422	RS-232
MELSERVO-J3 series	MR-J3 🗆 A	0	0
MELSERVO-55 series	MR-J3 🗆 T	0	0
	MR-J2S- A	0	0
MELSERVO-J2-Super series	MR-J2S-□CP	0	0
	MR-J2S- CL	0	0
MELSERVO-J2M series	MR-J2M-P8A	0	0
MELOEIX O-02M Selles	MR-J2M DU	0	0

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used	
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)	
GT16		Connections other than the	All the models (communication units connected to the GOT main unit)	
		above	· · · · · · · · · · · · · · · · · · ·	
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD	
GT15	•	RS-232 connection	All the models (built-in interfaces of the GOT main unit)	
0110		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)	
		RS-232 or RS-422 connections	GT115Q_BD	
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA	
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD	
	GT105	RS-232 or RS-422 connections	GT105Q_BD	
	GT104	RS-232 or RS-422 connections	GT104 -Q BD	
		RS-232 connection	GT1030-L_D2/L_DW2, GT1020-L_D2/L_DW2	
GT10	GT10 GT1030 GT1020 BS-422 connection		GT1030-L_D/L_DW, GT1030-L_L/L_LW, GT1020-L_D/L_DW,	
			GT1020-L_L/L_LW	
			(For GT1030-L_L/L_LW, GT1020-L_L/L_LW, MELSEC-FXCPU connection is	
]	1		available only.)	

Precautions

Precautions on system

Clock setting of GOT

The servo amplifier does not have the clock function. Even though [Adjust] or [Broadcast] is set for the clock setting, the setting is invalid (not processed).

Other precautions

• Test operation of servo amplifier with GOT

When communication between a GOT and a servo amplifier is aborted for 0.5[ms] or more during the test operation of the servo amplifier, the servo amplifier makes the servo motor decelerate and stop, and then the servo motor locks.

During the test operation of the servo amplifier, keep the communication between the GOT and servo amplifier executed with monitoring the servo amplifier status and others.

Related Manuals		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of servo amplifier connection 		Chapter 15 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)
For the accessible range that can be monitored by GOT	\triangleright	Chapter 3 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)
For connection method with Handy GOT		Chapter 24 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 54 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

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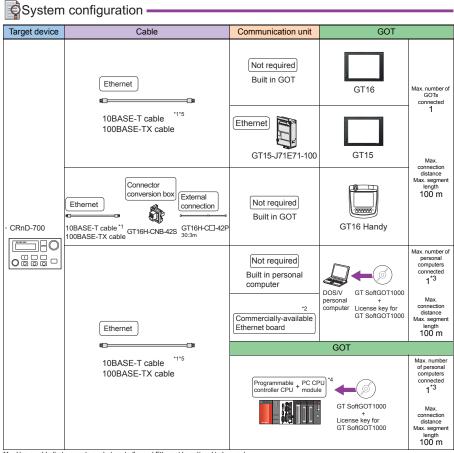
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CONNECTION CONFIGURATION

4.2.3 Robot controller connection



*1: Use a cable that supports a robot controller and Ethernet board/card to be used.

*2: For available Ethernet boards/cards, refer to the following page.

*3: The number of total GT SoftGOT1000 running in personal computer is included.

*4: Connect the PC CPU module to another programmable controller.

5: When connecting GT16 of function version A to an equipment that meets the 10BASE (-T/2/5) standard, use the switching hub and operate in an environment where 10Mbps and 100Mbps can be mixed.

Available Ethernet board/card for GT SoftGOT1000

Manufacturer	Model	Remark
3COM Corporation	EthernetLink III LAN PC Card	Ethernet board/card
-	Ethernet board included in personal computer as standard	Ethernet board

Precautions

Precautions on system

 The target device of an Ethernet cable differs depending on the Ethernet network system configuration to be used.

Connect the cable to appropriate devices such as robot controllers and hubs according to the Ethernet network system to be used.

When connecting GT16 (Excluding GT16 Handy) of function version A to an equipment that meets the 10BASE (-T/2/5) standard, use the switching hub and operate in an environment where 10Mbps and 100Mbps can be mixed.

For how to check the function version, refer to the following.

GT16 User's Manual (Hardware)

Communication via network system

A GOT cannot access a programmable controller on other network via a programmable controller (the network module, Ethernet module, and others) on the network where the GOT is connected.

- When connecting multiple network devices (including a GOT) to the same segment When multiple network devices (including a GOT) are connected to the same segment, the network load may increase, and the communication speed may slow down between the GOT and a programmable controller. The following actions can improve the communication performance.
 - Use a switching hub.
 - Use the high-speed 100BASE-TX (100Mbps).
 - Reduce the GOT monitoring points.

Related Manuals

 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of Robot controller connection 		Chapter 16 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG) Chapter 25 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202)
For the accessible range that can be monitored by GOT	\triangleright	Chapter 3 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)
For connection method with GT SoftGOT1000 For controllers that can be monitored by GT SoftGOT1000 and accessible range		Chapter 2 in GT SoftGOT1000 Version3 Operating Manual for GT Works3 (SH-080860ENG)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

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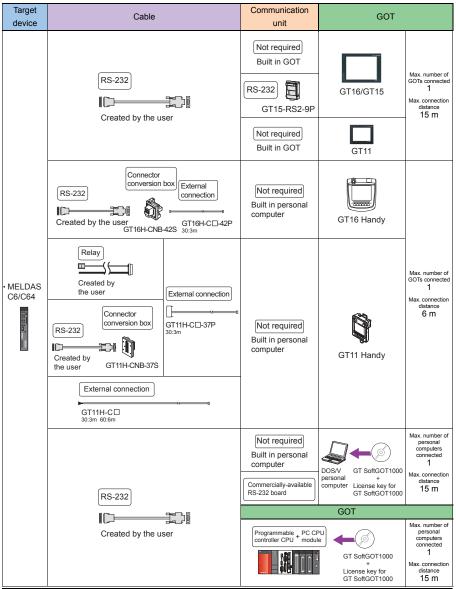
EQUIPMENT, SOFTWARE, AND MANU<u>ALS</u>

GLOSSARY

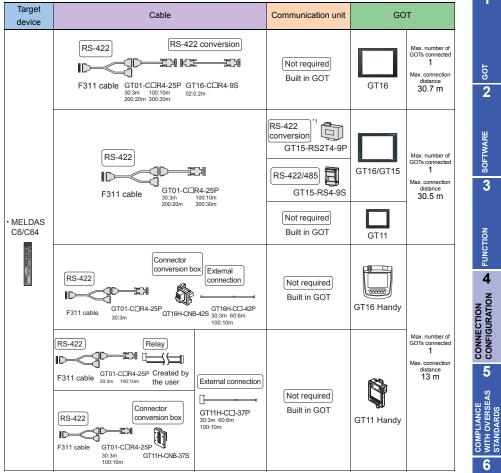
4.2.4 CNC (MELDAS C6/C64) connection

Direct CPU connection

System configuration



2) RS-422



*1: Use GT15-RS4-9S for using GT155.

GOT

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Connectable models

		Connection type		
Series	Model	Direct CPU connection		
		GT16/GT15 GT11	GT SoftGOT1000	
MELDAS C6/C64	FCA C6	0	0	0
MILLDAS CO/CO4	FCA C64	0	0	0

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)
0110		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)
		RS-232 or RS-422 connections	GT115 -Q BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD

Precautions

Precautions on system

Version of MELDAS C6/C64 For MELDAS C6/C64, use the NC system software version D0 or later.

•	For details of system configuration and
	connection cable

•	For precautions and restrictions
•	For outlined procedure and checking of CNC
	connection

 For the accessible range that can be monitored by GOT

· For connection method with Handy GOT

· For connection method with GT SoftGOT1000 · For controllers that can be monitored by GT SoftGOT1000 and accessible range

Chapter 26 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) >Chapter 55 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102) Chapter 2 in GT SoftGOT1000 Version3 Operating >

Chapter 17 in GOT1000 Series Connection Manual

Chapter 3 in GOT1000 Series Connection Manual

(Mitsubishi Products) for GT Works3 (SH-080868ENG)

(Mitsubishi Products) for GT Works3 (SH-080868ENG)

Manual for GT Works3 (SH-080860ENG)

For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

>

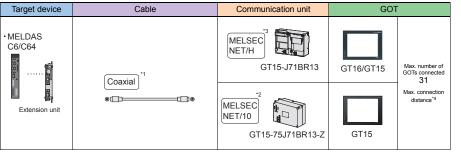
MELSECNET/10 connection

System configuration -

1) Optical loop

Target device	Cable	Cable Communication unit GO		-
• MELDAS C6/C64	Optical fiber	MELSEC NET/H GT15-J71LP23-25 MELSEC NET/10	GT16/GT15	Max. number of GOTs connected 63 Max. connection distance ⁴
		GT15-75J71LP23-Z	GT15	

2) Coaxial bus



*1: For the cable type to be used, refer to th MELSECNET/H reference manual.

*2: Cannot be used on GT155

*3: Select the MELSECNET/10 mode in [Communication Settings].

*4: The overall distance and the distance between stations vary depending on the cable types to be used and the total number of stations. MELDAS C6/C64/C64T CONNECTION AND MAINTENANCE MANUAL

•C6/C64/C64T NETWORK INSTRUCTION MANUAL

Connectable models

		Connection type		
Series	Model		MELSECNET/	10 connection
		GT16/GT15	GT11	GT SoftGOT1000
MELDAS C6/C64	FCA C6	0	×	×
	FCA C64	0	×	×

Available module for MELDAS C6/C64 connection

Series	MELSECNET/H module (NET/10 mode), MELSECNET/10 module		
	Optical loop	Coaxial bus	
MELDAS C6/C64	FCU6-EX879	FCU6-EX878	

GOT 2

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Precautions

Precautions on system

- Connectable network
 - A GOT is connected to the following network systems as a normal station.
 - Optical loop system of MELSECNET/10 network system (programmable controller to programmable controller network)
 - Coaxial bus system of MELSECNET/10 network system (programmable controller to programmable controller network)
- When using MELSECNET/H network module

When connecting the MELSECNET/H network module to MELSECNET/10 network system, set the network type to the MELSECNET/10 mode.

Creating network

For the network including a GOT, create a MELSECNET/H network system (programmable controller to programmable controller network) with the MELSECNET/10 mode or a MELSECNET/10 network system (programmable controller to programmable controller network).

The GOT cannot be connected to the following networks.

- MELSECNET/H network system (remote I/O network)
- MELSECNET/10 network system (remote I/O network)
- Applicable range for monitoring

A GOT can only monitor a programmable controller and CNC on the network where the GOT is connected. Note that the routing parameter setting is required when monitoring the programmable controller CPU and CNC on the other networks.

The routing parameter cannot be set with the GT15-75J71LP23-Z and GT15-75J71BR13-Z. Use the GT15-J71LP23-25 or GT15-J71BR13 to set the routing parameter.

Version of CNC

For MELDAS C6/C64, use the NC system software version D0 or later.

- Starting GOT with CNC connection (MELSECNET/10 connection) When the CNC connection (MELSECNET/10 connection) is used, the data link starts in about 10 minutes after starting the GOT.
- When an error related to the network occurs as the system alarm When an error related to the network occurs as the system alarm with CNC connection (MELSECNET/10 connection), the displayed system alarm cannot be erased even though the error factor is removed. Restart a GOT to erase the system alarm.

Precautions on setup

- When changing the switch setting When changing the switch setting after installing the MELSECNET/H or MELSECNET/10 communication unit on the GOT, reset the GOT.
- Correctly solder the connector for the coaxial cable. Incomplete soldering causes malfunctions.

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking of MELSECNET/10 connection

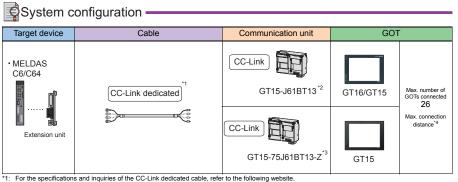


Chapter 17 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)

For the accessible range that can be monitored by GOT

y Chapter 3 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.



CC-Link Partner Association website: http://www.cc-link.org/eng/t_html/top.html

For connection on the CC-Link network system Ver.2. For connection on the CC-Link network system Ver.1, set the mode to Ver.1 in [Communication *2: Setting].

*3: Cannot be used on GT155

*4: The overall distance and the distance between stations vary depending on the cable types to be used and the total number of stations. For details, refer to the following manuals.

•MELDAS C6/C64/C64T CONNECTION AND MAINTENANCE MANUAL •C6/C64/C64T NETWORK INSTRUCTION MANUAL

Connectable models

		Connection type		
Series	Series Model CC-Link (intelligent dev		odel CC-Link (intelligent device station) connection	
		GT16/GT15	GT11	GT SoftGOT1000
MELDAS C6/C64	FCA C6	0	×	×
	FCA C64	0	×	×

Available module for MELDAS C6/C64 connection

Series	CC-Link module
MELDAS C6/C64	FCU6-HR865

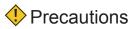
GOT

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Precautions on system

- When using cyclic transmission
 - (1) I/O signals from/to master station
 - Do not turn on reserved output signals among output signals from the master station to a GOT (remote output: RY).
 - When the reserved output signals are turned on, MELDAS (C6/C64) may malfunction.
 - (2) CC-Link mode The CNC is not applicable to the CC-Link network system Ver.2.
- When using transient transmission
 - (1) Accessible range for monitoring
 - A GOT can access a programmable controller CPU with the CC-Link module set as the master or local station. The GOT cannot access other networks via the CC-Link module.
- Starting GOT with CC-Link connection (intelligent device station) When the CC-Link connection (intelligent device station) is used, the data link starts in about 10 minutes after starting the GOT.
- Version of MELDAS C6/C64 For MELDAS C6/C64, use the NC system software version D0 or later.

Precautions on setup

- When changing the switch setting after installing the GT15-75J61BT13-Z type CC-Link communication unit on a GOT, reset the GOT.
- Setting [Network parameters] of GX Developer
 - When [Mode] of the CC-Link module is set to [Remote net (Ver.2 mode)], [Remote station points] can be set. The [Remote station points] setting is a setting for the remote I/O station. For a GOT, use the default value (32 points).
 - Set the station information setting to [Ver.1 Intelligent device station] when [Mode] of the CC-Link module is set to [Remote net (Ver.2 mode)] or [Remote net (Additional mode)].

Other precautions

When an error related to the network occurs as the system alarm When an error related to the network occurs as the system alarm with the CC-Link connection (intelligent device station), the displayed system alarm cannot be erased even though the error factor is removed. Restart a GOT to erase the system alarm.

Related Manuals ·

- For details of system configuration and connection cable
- · For precautions and restrictions

connection



Chapter 17 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)

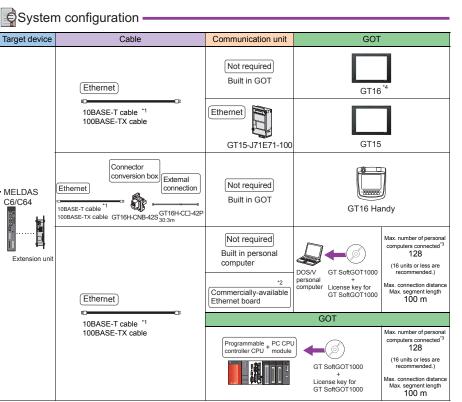
For the accessible range that can be monitored by GOT

· For outlined procedure and checking of CC-Link

Chapter 3 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

Ethernet connection



*1: Use a cable that supports an Ethernet module and Ethernet board/card to be used.

*2: For available Ethernet boards/cards, refer to the following page.

*3: The number of total GT SoftGOT 1000 running in personal computer is included.

*4: When connecting GT16 of function version A to an equipment that meets the 10BASE (-T/2/5) standard, use the switching hub and operate in an environment where 10Mbps and 100Mbps can be mixed.

Connectable models

		Connection type		
Series	Model Ethernet connection		onnection	
		GT16/GT15	GT11	GT SoftGOT1000
MELDAS C6/C64	FCA C6	0	×	×
MEEDAS CO/CO4	FCA C64	0	×	×

Available Ethernet board/card for GT SoftGOT1000

Manufacturer	Model	Remarks
3COM Corporation	EthernetLink III LAN PC Card	Ethernet board/card
-	Ethernet board included in personal computer as standard	Ethernet board

Available module for MELDAS C6/C64 connection

Series	Ethernet module
MELDAS C6/C64	FCU6-EX875

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CONNECTION CONFIGURATION **A** FUNCTION

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Precautions

Precautions on system

 The target device of an Ethernet cable differs depending on the Ethernet network system configuration to be used.

Connect the cable to the system devices, including Ethernet modules, hubs, and transceivers, according to the Ethernet network system to be used.

When connecting GT16 (Excluding GT16 Handy) of function version A to an equipment that meets the 10BASE (-T/2/5) standard, use the switching hub and operate in an environment where 10Mbps and 100Mbps can be mixed.

For how to check the function version, refer to the following.

GT16 User's Manual (Hardware)

- Communication via network system A GOT cannot access a CNC on other network via a CNC (the network module, Ethernet module, and others) on the network where the GOT is connected.
- When connecting multiple network devices (including a GOT) to the same segment When multiple network devices (including a GOT) are connected to the same segment, the network load may increase, and the communication speed may slow down between the GOT and a programmable controller. The following actions can improve the communication performance.
 - Use a switching hub.
 - Use the high-speed 100BASE-TX (100Mbps).
 - Reduce the GOT monitoring points.
- Applicable range for monitoring

A GOT can only monitor a programmable controller on the network where the GOT is connected. Note that the routing parameter setting is required when monitoring the programmable controller CPU on the other network.

 Version of MELDAS C6/C64 For MELDAS C6/C64, use the NC system software version D0 or later.

Precautions on setup

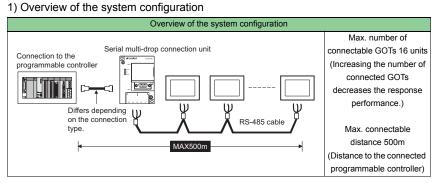
 A GOT cannot access a MELDAS (C6/C64) on other network via a MELDAS (C6/C64) (the network module, Ethernet module, and others) on the network where the GOT is connected.

Connecting Ethernet cable Keep a distance between the Ethernet cable and power line or electric power line, and run the Ethernet cable through ferrite cores (included) at positions close to control devices so that the Ethernet cable is not affected by noise.

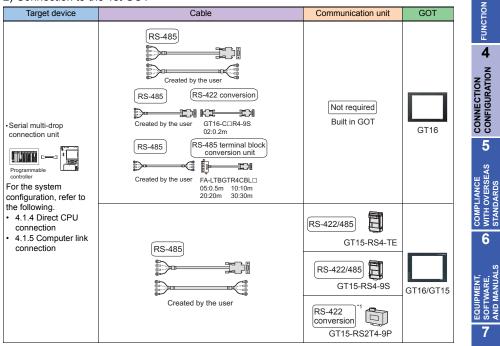
Related Manuals · For details of system configuration and connection cable Chapter 17 in GOT1000 Series Connection Manual · For precautions and restrictions >(Mitsubishi Products) for GT Works3 (SH-080868ENG) · For outlined procedure and checking of CNC connection · For controllers that can be monitored by GOT and Chapter 3 in GOT1000 Series Connection Manual >(Mitsubishi Products) for GT Works3 (SH-080868ENG) accessible range For connection method with GT SoftGOT1000 Chapter 2 in GT SoftGOT1000 Version3 Operating · For controllers that can be monitored by GT Manual for GT Works3 (SH-080860ENG) SoftGOT1000 and accessible range

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

System configuration —



2) Connection to the 1st GOT

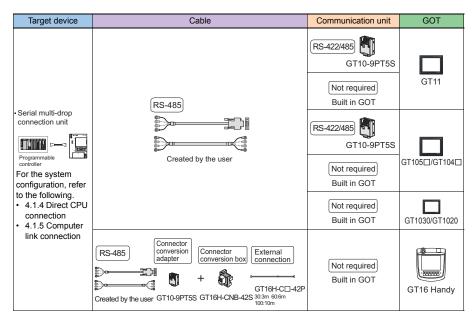


*1: For using GT155, use GT15-RS4-9S.

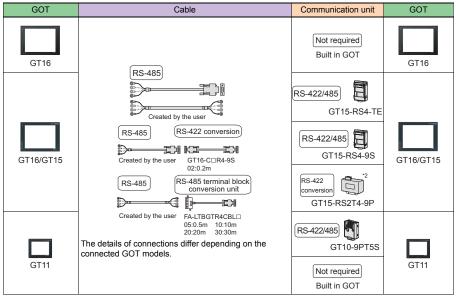
GOT

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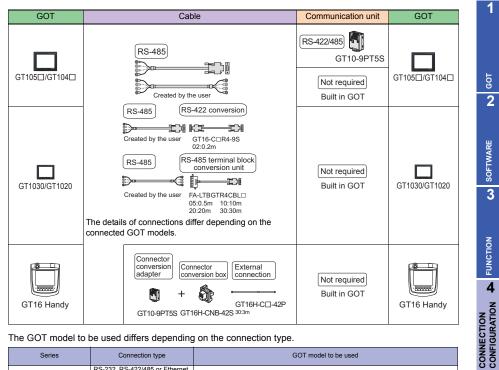
GLOSSARY



3) Connection to the 2nd or later GOTs



*2: For using GT155 , use GT15-RS4-9S.



The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD
GT15	•	RS-232 connection	All the models (built-in interfaces of the GOT main unit)
0115		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)
		RS-232 or RS-422 connections	GT115 -Q BD
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA
	Handy GOT	RS-232 or RS-422 connections	GT115 HS-Q BD
	GT105	RS-232 or RS-422 connections	GT105Q_BD
	GT104	RS-232 or RS-422 connections	GT104Q_BD
		RS-232 connection	GT1030-L D2/L DW2, GT1020-L D2/L DW2
GT10	GT1030		GT1030-L_D/L_DW, GT1030-L_L/L_LW, GT1020-L_D/L_DW,
	GT1020		GT1020-L_L/L_LW
			(For GT1030-L_L/L_LW, GT1020-L_L/L_LW, MELSEC-FXCPU connection is available only.)

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COMPLIANCE WITH OVERSEAS STANDARDS

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Precautions

Precautions on system

 Setting the station number of GOTs Set the station number not to overlap with other station numbers. When station numbers are overlapping, the GOTs with overlapped station numbers cannot be monitored properly.

- Maintenance functions
 The GOT maintenance functions are not available during the GOT multi-drop connection.

 For the GOT maintenance functions, refer to the following.
 For GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3
 GT16 User's Manual (Hardware)
 GT15 User's Manual
 System alarm (GT16 and GT15 only)
 The system alarm displays the alarm of the multi-drop unit. Alarms of connected programmable controllers are not displayed.
- Starting the serial multi-drop connection unit The master module detects the connected slave GOTs at the startup. Slave stations which were not detected at this time may take some time to be detected. Start the master module after the slave GOTs are started and in the communication enabled status.
- Updating cycle of devices
 - The updating cycle of the devices on the screen may delay as the total number of connected slave GOTs and GOT devices increases. In this case, reducing the number of GOT devices is recommended. (Consider the total number of 500 points as a guide) In the case that time-out error occurs, the time-out period should be increased from the communication settings of slave GOTs.
 - When device numbers are randomly set, the updating cycle of the devices is longer than in a continuous setting. Setting device numbers continuously is recommended.
 - Screen switching may take some time depending on the number and combination of the devices. This
 affects the updating cycle of other slave station devices.

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking of GOT multi-drop connection



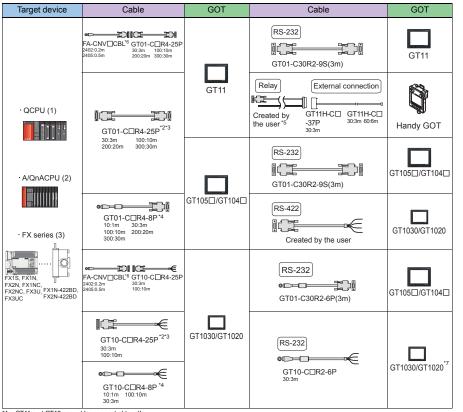
Chapter 18 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)

 For the accessible range that can be monitored by GOT Chapter 3 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

System configuration -

1) When connecting the first controller with RS-422 $^{
m *1}$



*1: GT11 and GT10 cannot be connected together.

*2: Used for connecting to (1). *3: Used for connecting to (2).

*4: Used for connecting to (2).

*5: Used for using GT11H-C -37P.

*6: The FA-CNV CBL is Recommended Product.

Purchase the cable from MITSUBISHI ELECTRIC ENGINEEERING CO., LTD.

*7: Available only for RS-232 interface (built into GOT).

6

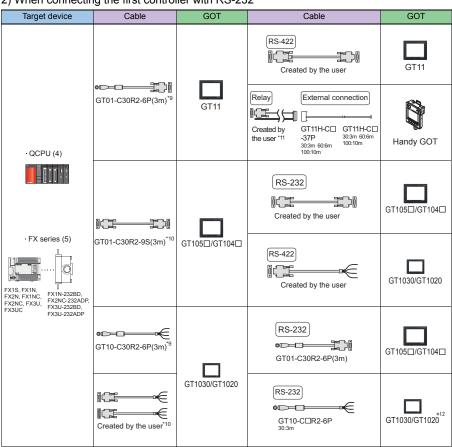
EQUIPMENT, SOFTWARE, AND MANUALS

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2) When connecting the first controller with RS-232 $^{ m *8}$

*8: GT11 and GT10 cannot be connected together.

*9: Used for connecting to (4).

*10: Used for connecting to (5).

*11: Used for using GT11H-C -37P.

*12: Available only for RS-232 interface (built into GOT).

The GOT model to be used differs depending on the connection type.

	Series Connection type		GOT model to be used		
		RS-232 or RS-422 connections	GT115Q_BD		
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA		
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD		
	GT105	RS-232 or RS-422 connections	GT105Q_BD		
	GT104	RS-232 or RS-422 connections	GT104Q_BD		
		RS-232 connection	GT1030-L_D2/L_DW2, GT1020-L_D2/L_DW2		
GT10	GT1030	774020	GT1030-L_D/L_DW, GT1030-L_L/L_LW, GT1020-L_D/L_DW,		
	GT1030	RS-422 connection	GT1020-L_L/L_LW		
			(For GT1030-L_L/L_LW, GT1020-L_L/L_LW, MELSEC-FXCPU connection is		
			available only.)		

GOT

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Precautions

Precautions on system

- When connecting a GOT to the MITSUBISHI programmable controller with the following connection type, the multiple-GT11/GT10 connection function can be used.
 Direct CPU connection
- GOT communication timing

Adjust the communication timing as described below so that GOTs communicate with a controller (MITSUBISHI programmable controller) in number order (starting from the first connected GOT) after the GOTs are turned on.

When the communication is disabled, retry the communication. A communication error occurs when the time-out period passes.

(1) When turning on GOTs simultaneously

When it takes a long time to start communication of the second GOT, a communication error may occur.

For the time that the startup screen is displayed, set the longer time for the second GOT than the first GOT. (Example: First GOT (5 minutes) \rightarrow Second GOT (10 minutes))

A GOT does not communicate with a controller during displaying the startup screen.

For adjusting the time of the startup screen, refer to following.

🗊 GT11 User's Manual

🖙 GT10 User's Manual

- (2) When turning on GOTs respectively When the first GOT is turned on sometime after the second GOT is turned on, the communication start of the second GOT delays. Therefore, a communication error may occur on the second GOT. Turn on a controller, the first GOT, and the second GOT, in that order.
- Using the function with FA transparent function

When connecting multiple GOTs, the FA transparent function cannot be used with connecting a personal computer to the RS-232 interface or USB interface of the GOT.

 Conditions for making GOTs stop monitoring in the system where multiple GOTs are connected In the system where multiple GOTs are connected, when the following operations are executed on the first GOT (close to the programmable controller), the first GOT stops monitoring, and the second GOT also stops monitoring.

When the first GOT restarts monitoring, the second GOT also restarts monitoring.

- (1) When the project data is downloaded/uploaded, or OS is installed with GT Designer3
- (2) When a GOT is set up
- When power-off of a programmable controller occurs in the system where multiple GOTs are connected When the power-off of a programmable controller occurs or when the communication between a programmable controller and the first GOT stops because of the communication cable disconnection and others, time-out wait occurs for the communication request from the second GOT to the first GOT. As a result, it takes a long time to restart communications between the programmable controller and the first GOT.

Related Manuals -

- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking of multiple-GT11/GT10 connection
- For the accessible range that can be monitored by GOT
- For connection method with Handy GOT

Chapter 19 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)

Chapter 3 in GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (SH-080868ENG)

Chapter 56 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

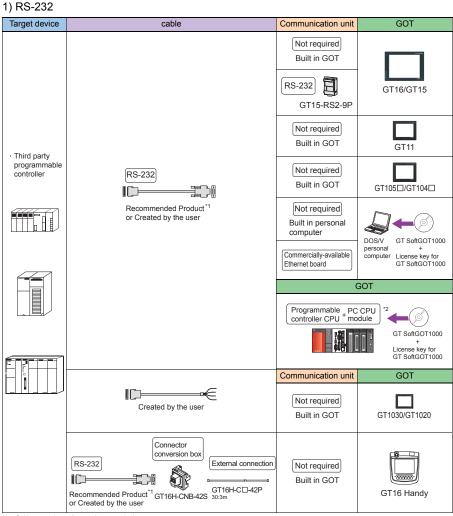
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4.3 Third Party Programmable Controller

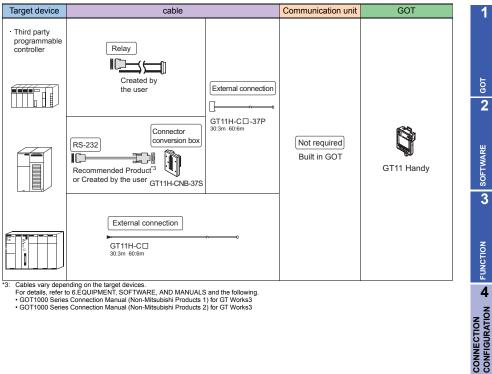
4.3.1 Connection type

System configuration -

The following shows connection with a third party programmable controller. The available connection type and GOT differ according to the manufacturer. For details, refer to the section for each programmable controller.



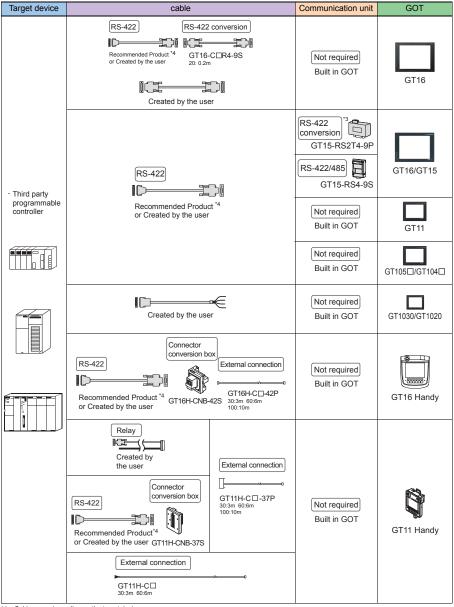
 Cables vary depending on the target devices. For details, refer to 6.EQUIPMENT, SOFTWARE, AND MANUALS and the following.
 GOT1000 Series Connection Manual (Non-Mitsubishi Products 1) for GT Works3 GOT1000 Series Connection Manual (Non-Mitsubishi Products 2) for GT Works3



*3:

Cables vary depending on the target devices. For details, refer to 6.EQUIPMENT, SOFTWARE, AND MANUALS and the following. GOT1000 Series Connection Manual (Non-Mitsubishi Products 1) for GT Works3 GOT1000 Series Connection Manual (Non-Mitsubishi Products 2) for GT Works3

2) RS-422

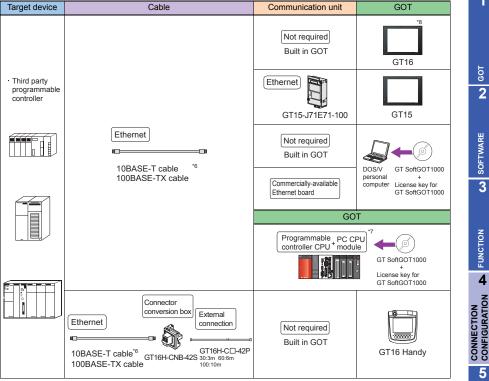


4: Cables vary depending on the target devices. For details, refer to 6.EQUIPMENT, SOFTWARE, AND MANUALS and the following. • GOT1000 Series Connection Manual (Non-Mitsubishi Products 1) for GT Works3

- · GOT1000 Series Connection Manual (Non-Mitsubishi Products 2) for GT Works3

^{*5:} Use GT15-RS4-9S for using GT155

3) Ethernet



*6: Use a cable that supports an Ethernet module and Ethernet board/card to be used.

*7:

Connect the C SPU module to another programmable controller. When connecting GT16 (Excluding GT16 Handy) of function version A to an equipment that meets the 10BASE (-T/2/5) standard, use the switching hub and operate in an environment where 10Mbps and 100Mbps can be mixed. For how to check the function version, refer to the following. *8:

· GT16 User's Manual (Hardware)

COMPLIANCE WITH OVERSEAS STANDARDS

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EQUIPMENT, SOFTWARE, AND MANUALS

4.3.2 OMRON programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

			GT16/	GT15/GT	11/GT10		GT SoftGOT1000				
Series	Model		iter link ection		t CPU ection	Ethernet		iter link ection		t CPU ection	Ethernet
		RS-422	RS-232	RS-422	RS-232	-	RS-422	RS-232	RS-422	RS-232	
	CPM1A				×					×	
SYSMAC	CPM1		~								
CPM	CPM2A	×	0		0	×				0	×
	CPM2C				×	~				×	^
SYSMAC CQM1H	CQM1H										
SYSMAC	CJ1H										
CJ1	CJ1G CJ1M	-			0	~				0	~
SYSMAC	CJ2H	-		×		0					0
CJ2	CP1H	-					-				
SYSMAC	CP1H CP1L	0	0		×					×	
CP1	CP1E										
	C200HX	-			0	×	×	×	×	0	×
SYSMAC α	C200HG	-									
	C200HE				×					×	
SYSMAC	CS1H	-									
CS1	CS1G CS1D	-				0					0
	CV500				0						
SYSMAC	CV1000	-			0					0	
CVM1/CV	CV2000	×	×	0							
	CVM1	-		-							
	CQM1				O*1	×					×
-	C200HS C200H C1000H C2000H	0	0	×	×					×	
L	5200011										

*1 CQM1-CPU11 does not have the RS-232 interface and cannot connect to a GOT.

*2 Available only for GT16 and GT15.

The GOT model to be used differs depending on the connection type.

	Series Connection type		GOT model to be used			
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)			
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)			
	Handy GOT RS-232, RS-422/485 or Ethern connection		GT1665HS-VTBD			
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)			
0115		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)			
		RS-232 or RS-422 connections	GT115 -Q BD			
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA			
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD			
	GT105	RS-232 or RS-422 connections	GT105 -Q BD			
	GT104	RS-232 or RS-422 connections	GT104□-Q□BD			
		RS-232 connection	GT1030-L_D2/L_DW2, GT1020-L_D2/L_DW2			
GT10	GT1030		GT1030-L_D/L_DW, GT1030-L_L/L_LW, GT1020-L_D/L_DW,			
	GT1020	RS-422 connection	GT1020-L L/L LW			
			(For GT1030-L_L/L_LW and GT1020-L_L/L_LW, MELSEC-FXCPU connection is			
		1	available only.)			

Available unit for computer link connection

Unit	RS-422	RS-232
	C200H-LK202-V1	C200H-LK201-V1
	C500-LK201-V1	C500-LK201-V1
	CQM1-SCB41	CS1W-SCU21
	CJ1W-CIF11	CS1W-SCU21-V1
	CJ1W-SCU41	CS1W-SCB21
	CJ1W-SCU41-V1	CS1W-SCB21-V1
	CJ1W-SCU21-V1+CP1W-EXT01	CS1W-SCB41
	CS1W-SCB41	CS1W-SCB41-V1
	CS1W-SCB41-V1	CJ1W-SCU21
	C200HW-COM03	CJ1W-SCU21-V1
Host link unit/	C200HW-COM06	CJ1W-SCU21-V1+CP1W-EXT01
Communication unit/	CP1W-CIF11	CJ1W-SCU41
Communication board	CP1W-CIF12	CJ1W-SCU41-V1
		C200HW-COM02
		C200HW-COM05
		C200HW-COM06
		CQM1-CIF01
		CQM1-CIF02
		CQM1-SCB41
		CPM1-CIF01
		CPM2C-CN111
		CPM2C-CIF01-V1
		CP1W-CIF01

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CONNECTION CONFIGURATION **A** FUNCTION

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Precautions

Precautions on system

When connecting a GOT to the OMRON programmable controller, set a terminating resistor for the programmable controller.

The GOT has a built-in terminating resistor.

- Small-sized programmable controller that cannot be connected CQM1-CPU11 does not have the RS-232C interface and cannot connect to a GOT.
- Connecting to C200HE Connect a GOT to the C200HE via a rack type host link unit or a communication board.
- For C200HE-CPU11, a communication board cannot be installed. Use a host link unit.
- The target device of an Ethernet cable differs depending on the Ethernet network system configuration to be used. Connect the cable to the system devices, including Ethernet modules, hubs, and transceivers, according to the Ethernet network system to be used.
- When connecting GT16 (Excluding GT16 Handy) of function version A to an equipment that meets the 10BASE (-T/2/5) standard, use the switching hub and operate in an environment where 10Mbps and 100Mbps can be mixed.

For how to check the function version, refer to the following.

- GT16 User's Manual (Hardware)
- Communication via network system

A GOT cannot access a programmable controller on other networks via a programmable controller (the network module, Ethernet module, and others) on the network where the GOT is connected.

- When connecting multiple network devices (including a GOT) to the same segment When multiple network devices (including a GOT) are connected to the same segment, the network load may increase, and the communication speed may slow down between the GOT and a programmable controller. The following actions can improve the communication performance.
 - Use a switching hub.
 - Use the high-speed 100BASE-TX (100Mbps).
 - Reduce the GOT monitoring points.

Precautions on setup

Polar difference between GOT and OMRON product
 For signal names, poles A and B are reversed between a GOT and an OMRON product.

WRelated Manuals —		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking for OMRON programmable controller connection 		Chapter 3 in GOT1000 Series Connection Manual (Non- Mitsubishi Products 1) for GT Works3 (SH-080869ENG)
For connection method with Handy GOT		Chapter 31 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 23 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)
 For connection method with GT SoftGOT1000 For controllers that can be monitored by GT SoftGOT1000 and accessible range 	\triangleright	Chapter 2 in GT SoftGOT1000 Version3 Operating Manual for GT Works3 (SH-080860ENG)
* For restrictions and precautions on controllers	connect	ed to a GOT, refer to the manual for each controller.

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4.3.3 KEYENCE programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

Series	Computer lin	nk connection	Direct CPU connection		
Jenes	RS-422/485	RS-232	RS-422/485	RS-232	
KV-700					
KV-1000	0	0	×	0	
KV-3000	0	0	×	0	
KV-5000	0	0	×	×	

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used		
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)		
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)		
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD		
GT15	1	RS-232 connection	All the models (built-in interfaces of the GOT main unit)		
0115		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)		
		RS-232 or RS-422 connections	GT115Q_BD		
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA		
	Handy GOT	RS-232 or RS-422 connections	GT115 HS-Q BD		
	GT105	RS-232 or RS-422 connections	GT105Q_BD		
	GT104	RS-232 or RS-422 connections	GT104Q_BD		
		RS-232 connection	GT1030-L_D2/L_DW2, GT1020-L_D2/L_DW2		
GT10	GT1030		GT1030-L_D/L_DW, GT1030-L_L/L_LW, GT1020-L_D/L_DW,		
	GT1030 GT1020	RS-422 connection	GT1020-L_L/L_LW		
			(For GT1030-L L/L LW and GT1020-L L/L LW, MELSEC-FXCPU connection is		
			available only.)		

Available unit for computer link connection

Unit	RS-422	RS-232
Multi-communication unit	KV-L20R KV-L20 KV-L20V	KV-L20R KV-L20 KV-L20V

Precautions

Precautions on system

When connecting a GOT to the KEYENCE programmable controller, set terminating resistors for the programmable controller and a GOT.

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Related Manuals -	
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking for KEYENCE programmable controller connection 	Chapter 5 in GOT1000 Series Connection Manual (Non- Mitsubishi Products 1) for GT Works3 (SH-080869ENG)
For connection method with Handy GOT	Chapter 33 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 24 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

4.3.4 KOYO El programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

0	Model	Computer lin	k connection	Direct CPU	connection
Series	wodei	RS-422	RS-232	RS-422	RS-232
	SU-5E	0	0	0	0
KOSTAC SU	SU-6B	0	0	0	0
series	SU-5M	0	0	0	0
	SU-6M	0	0	0	0
	D0-05AA	0	0	×	0
	D0-05AD	0	0	×	0
	D0-05AR	0	0	×	0
DirectLOGIC	D0-05DA	0	0	×	0
05 series	D0-05DD	0	0	×	0
	D0-05DD-D	0	0	×	0
	D0-05DR	0	0	×	0
	D0-05DR-D	0	0	×	0
	D0-06DD1	0	0	0	0
	D0-06DD2	0	0	0	0
	D0-06DR	0	0	0	0
DirectLOGIC	D0-06DA	0	0	0	0
06 series	D0-06AR	0	0	0	0
00 361163	D0-06AA	0	0	0	0
	D0-06DD1-D	0	0	0	0
	D0-06DD2-D	0	0	0	0
	D0-06DR-D	0	0	0	0
DirectLOGIC	D2-240	0	0	×	0
205 series	D2-250-1	0	0	0	0
200 30105	D2-260	0	0	0	0
PZ series	PZ3	×	×	0	0

The GOT model to be used differs depending on the connection type.

	Series Connection type		GOT model to be used
GT16		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)
		Connections other than the above	All the models (communication units connected to the GOT main unit)
	Handy GOT	RS-232, RS-422/485 or Ethernet connection GT1665HS-VTBD	
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)
0115		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD

Available unit for computer link connection

Unit	RS-422	RS-232
	U-01DM	U-01DM
Data Communications module	D2-DCM	D2-DCM
	D0-DCM	D0-DCM

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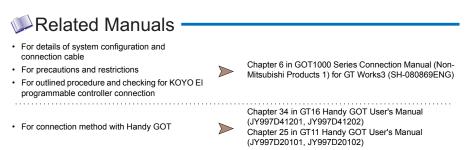
Precautions

Precautions on system

When connecting a GOT to the KOYO EI programmable controller, set a terminating resistor for the programmable controller.

The GOT has a built-in terminating resistor.

Clock setting of GOT
 The GOT clock function is available only for the PLC with a calendar function.
 Note:Although the "time adjusting" and "time broadcast" functions can be selected on the GOT, the "time broadcast" function is not available.
 Do not select the "time broadcast" function. If both of the functions are selected, not only the "time broadcast" function but also the "time adjusting" function will be disabled.



* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

4.3.5 SHARP programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

Series	Computer lin	k connection	Direct CPU connection		
	RS-422	RS-232	RS-422	RS-232	
JW-21CU					
JW-31CUH	1 0	×	×	×	
JW-50CUH	1				
JW-22CU					
JW-32CUH	1				
JW-33CUH	1 _		○ *1		
JW-70CUH		×			
JW-100CUH	1				
JW-100CU	1				
Z-512J	×	×	0	*1	

*1 Either RS-422 or RS-232 interface can be selected.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)
Handy GOT	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)
0110		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD

Available unit for computer link connection

Unit	RS-422	RS-232
Link unit	JW-21CM JW-10CM ZW-10CM	-

Precautions

Precautions on system

• For connecting to a GOT, use a link unit applicable to the JW-31CUH, JW-32CUH, and JW-33CUH.

 When connecting a GOT to the SHARP programmable controller, set a terminating resistor for the programmable controller.

The GOT has a built-in terminating resistor.

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Related Manuals	
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking for SHARP programmable controller connection 	Chapter 8 in GOT1000 Series Connection Manual (Non- Mitsubishi Products 1) for GT Works3 (SH-080869ENG)
For connection method with Handy GOT	Chapter 36 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 26 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

4.3.6 JTEKT programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

Sorios	Series Model -		Computer link connection		Direct CPU connection	
Series			RS-422	RS-232	RS-422	RS-232
	PC3JG	PC3JG-P-CPU PC3JG-CPU	0	O*1	×	O*1
TOYOPUC series	PC3J	PC3J-CPU PC3JL-CPU	0	O*1	0	O*1
	PC2J	PC2JC-CPU PC2J16P-CPU PC2J16PR-CPU	0	* 1	×	⊜*1
	PC2J PC2J-CPU PC2JS-CPU PC2JR-CPU	0	0	~	×	

*1 The RS-232/RS-422 converter (TXU-2051) is required.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)
GT16 Handy GOT	Connections other than the above	All the models (communication units connected to the GOT main unit)	
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)
0110		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)
		RS-232 or RS-422 connections	GT115 -Q BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD

Available unit for computer link connection

Unit	RS-422	RS-232
Link unit	PC/CMP-LINK 2PORT-LINK PC/CMP2-LINK	-

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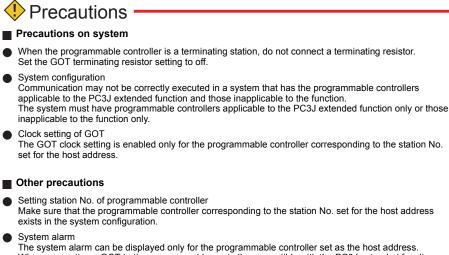
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CONNECTION CONFIGURATION **A** FUNCTION

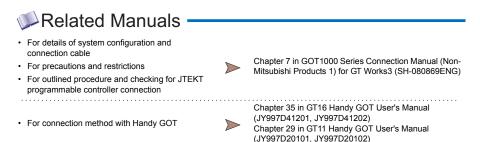
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When connecting a GOT to the programmable controller set as the nost address. only the system alarm of the program No.1 can be displayed.

 Version of PC3J For PC3J, use the version 2.1 or later.



* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

4.3.7 TOSHIBA programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

Series	Model	Computer lin	k connection	Direct CPU connection	
		RS-422	RS-232	RS-422	RS-232
PROSEC T series	T2(PU224)	×	×	0	×
	T2E			O*1	
	T2N			O*1	
	Т3			0	×
	ТЗН			0	×
V series	model 3000(S3) model 2000(S2) model 2000(S2E) model 2000(S2T)	×	×	0	×

*1 Either RS-422 or RS-232 interface can be selected.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)
GT16 Handy GOT	Connections other than the above	All the models (communication units connected to the GOT main unit)	
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD
GT15		RS-232 connection Connections other than RS-232	All the models (built-in interfaces of the GOT main unit) All the models (connected a communication unit to the GOT main unit)
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115 HS-Q BD

Precautions

Precautions on system

 When connecting a GOT to the TOSHIBA programmable controller, set a terminating resistor for the programmable controller.
 The COT has a built in terminating resistor.

The GOT has a built-in terminating resistor.

For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of TOSHIBA programmable controller connection For connection method with Handy GOT For connection method with Handy GOT Chapter 39 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 27 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

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4.3.8 TOSHIBA MACHINE programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

Series	Model	Computer lin	k connection	Direct CPU connection	
		RS-422	RS-232	RS-422	RS-232
	TC3-01	×	×	×	0
	TC3-02	×	×	×	0
TCmini series	TC5-20	×	×	×	0
	TC6-00	×	×	×	0
	TC8-00	×	×	×	0

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)
GT16	GT16	Connections other than the above	All the models (communication units connected to the GOT main unit)
Handy GOT		RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD
GT15 RS-232 connection All the models (built-in interfaces of the GOT main unit)			
0110	Connections other than RS-232 All the models		All the models (connected a communication unit to the GOT main unit)
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD
	GT105	RS-232 or RS-422 connections	GT105 -Q BD
	GT104	RS-232 or RS-422 connections	GT104Q_BD
		RS-232 connection	GT1030-L_D2/L_DW2, GT1020-L_D2/L_DW2
GT10	GT10 GT1030		GT1030-L_D/L_DW, GT1030-L_L/L_LW, GT1020-L_D/L_DW,
GT1030		RS-422 connection	GT1020-L_L/L_LW
			(For GT1030-L_L/L_LW and GT1020-L_L/L_LW, MELSEC-FXCPU connection is
			available only.)

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking of TOSHIBA MACHINE programmable controller connection

· For connection method with Handy GOT



Chapter 12 in GOT1000 Series Connection Manual (Non-Mitsubishi Products 1) for GT Works3 (SH-080869ENG)

Chapter 40 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 28 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

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4.3.9 HITACHI IES programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

Series	Model	Computer lin	nk connection	Direct CPU connection	
Series			RS-232	RS-422	RS-232
	H-302(CPU2-03H)				
	H-702(CPU2-07H)				
	H-1002(CPU2-10H)				
Large-sized H	H-2002(CPU2-20H)	O*1	O*1		_
series	H-4010(CPU3-40H)	0'	0 '	×	0
	H-300(CPU-03Ha)				
	H-700(CPU-07Ha)				
	H-2000(CPU-20Ha)				
	H-200(CPU-02H, CPE-02H)				
H-200 to 252	H-250(CPU21-02H)	×	×	×	0
series	H-252(CPU22-02H)				
361163	H-252B(CPU22-02HB)				
	H-252C(CPU22-02HC)				
	H-252C(CPE22-02HC)				
	H-20DR		×	×	0
	H-28DR				
	H-40DR				
H series board	H-64DR				
type	H-20DT				
type	H-28DT	×			
	H-40DT				
	H-64DT				
	HL-40DR				
	HL-64DR]			
	EH-CPU104				
EH-150 series	EH-CPU208	1	×	×	0
LI 1-100 301103	EH-CPU308	×			
	EH-CPU316				

*1 Either RS-422 or RS-232 interface can be selected.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)
GT16 Connections other than the All the models	All the models (communication units connected to the GOT main unit)		
	Above above		GT1665HS-VTBD
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)
0110		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD

Available unit for computer link connection

Unit	RS-422	RS-232
Intelligent serial port module	COMM-H	COMM-H
Intelligent senai port module	COMM-2H	COMM-2H

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Precautions on system

When connecting a GOT to the intelligent serial port module, connect a terminating resistor to the intelligent serial port module. The GOT has a built-in terminating resistor.

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking for HITACHI IES programmable controller connection
- · For connection method with Handy GOT

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Chapter 2 in GOT1000 Series Connection Manual (Non-Mitsubishi Products 2) for GT Works3 (SH-080870ENG)

Chapter 43 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 30 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

4.3.10 HITACHI programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

Series	Model	Computer link connection		Direct CPU connection	
Series	WOUEI	RS-422	RS-232	RS-422	RS-232
S10V	LQP510			0	
0101	LQP520	t			
	LQP800	0	0	×	×
	LQP000				
S10mini	LQP010				
	LQP011				
	LQP120				

The GOT model to be used differs depending on the connection type.

	Series Connection type		GOT model to be used	
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)	
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)	
Handy GOT		RS-232, RS-422/485 or Ethernet connection	t GT1665HS-VTBD	
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)	
0115		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)	
		RS-232 or RS-422 connections	GT115 -Q BD	
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA	
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD	

Available unit for computer link connection

Unit	RS-422	RS-232
Communication module	LQE565 LQE165	LQE560 LQE060 LQE160

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking of HITACHI
 programmable controller connection
- · For connection method with Handy GOT

Chapter 3 in GOT1000 Series Connection Manual (Non-Mitsubishi Products 2) for GT Works3 (SH-080870ENG)

Chapter 44 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 31 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

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FUNCTION

CONNECTION CONFIGURATION

4.3.11 FUJI FA programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

Sorios	Series Model	Computer link connection		Direct CPU connection	
Jenes		RS-422	RS-232	RS-422	RS-232
	F55				
MICREX-F	F70 F120S	0	0	×	×
	F140S				
	F15⊡S				

The GOT model to be used differs depending on the connection type.

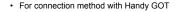
	Series Connection type GOT model to be used		GOT model to be used
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)
0110		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)
		RS-232 or RS-422 connections	GT115 -Q BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD

Available unit for computer link connection

Unit	RS-422	RS-232
RS-232C interface card	-	NV1L-RS2
RS-232C/485 interface capsule	FFK120A-C10	FFK120A-C10
General-purpose interface module	NC1L-RS4 FFU120B	NC1L-RS2 FFU120B

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking of FUJI FA
 programmable controller connection





Chapter 4 in GOT1000 Series Connection Manual (Non-Mitsubishi Products 2) for GT Works3 (SH-080870ENG)

Chapter 45 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 32 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

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4.3.12 PANASONIC EW programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

Series	Computer li	Computer link connection		connection
Series	RS-422	RS-232	RS-422	RS-232
FP0-C16CT FP0-C32CT FP0R FP1-C24C	×	×	×	0
FP1-C40C FP2				
FP2SH FP3				
FP5 FP10(S)	×	0	×	0
FP10SH FP-M(C20TC)				
FP-M(C32TC) FP-Σ	×	×	×	0
FP-X	0	0		

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD
GT15 RS-232 connection All the models (built-in interfaces of the GOT main unit) Connections other than RS-232 All the models (connected a communication unit to the GOT main unit)			
		All the models (connected a communication unit to the GOT main unit)	
		RS-232 or RS-422 connections	GT115 -Q BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD
	GT105	RS-232 or RS-422 connections	GT105Q_BD
	GT104	RS-232 or RS-422 connections	GT104Q_BD
		RS-232 connection	GT1030-L_D2/L_DW2, GT1020-L_D2/L_DW2
GT10	GT1030		GT1030-L_D/L_DW, GT1030-L_L/L_LW, GT1020-L_D/L_DW,
	GT1020	GT1020 RS-422 connection	GT1020-L_L/L_LW
			(For GT1030-L_L/L_LW and GT1020-L_L/L_LW, MELSEC-FXCPU connection is
			available only.)

Available unit for computer link connection

Unit	RS-422	RS-232
Computer communication unit	AFPX-COM3	AFP2462 AFP3462 AFP5462 AFPX-COM1 AFPX-COM2 AFPX-COM4

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Related Manuals -		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of PANASONIC EW programmable controller connection 		Chapter 14 in GOT1000 Series Connection Manual (Non- Mitsubishi Products 1) for GT Works3 (SH-080869ENG)
For connection method with Handy GOT	►	Chapter 42 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 33 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

4.3.13 YASKAWA programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

		GT16/G	T15/GT11	/GT10 ^{*1}		GT SoftGOT1000							
Series	Computer link connection		Direct CPU connection		Ethernet	Computer link connection		Direct CPU connection		Ethernet			
	RS-422	RS-232	RS-422	RS-232		RS-422	RS-232	RS-422	RS-232				
GL120				\sim					\sim				
GL130		×		0			×		0				
GL60S	0		×		×								
GL60H		0		×			0		×	×			
GL70H										×			
CP-9200SH	×		0		×	0		0		×			
CP-9300MS		×	×		×	×	×	×					
MP920	0	0	^				0			0			
MP930				0					0				
MP940			0										
PROGIC-8	×	×			×		×			×			
CP-9200(H)													
CP-312			×							1			
MP2200	~	~	1	×	0		~	İ	×	~			
MP2300	0	0					0			0			

*1 GT10 is compatible with the followings.

CP-9200SH, MP920, MP930, MP940, MP2200, and MP2300

*2 Available only for GT16 and GT15.

The GOT model to be used differs depending on the connection type.

	Series Connection type		GOT model to be used						
		RS-232, RS-422/485 or Ethernet	All the models (built-in interfaces of the GOT main unit)						
		connection							
GT16		Connections other than the	All the models (communication units connected to the GOT main unit)						
0.10		above							
	Handy GOT	RS-232, RS-422/485 or Ethernet	GT1665HS-VTBD						
	manay oor	connection							
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)						
0110		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)						
		RS-232 or RS-422 connections	GT115Q_BD						
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA						
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD						
	GT105	RS-232 or RS-422 connections	GT105 -Q BD						
	GT104	RS-232 or RS-422 connections	GT104Q_BD						
		RS-232 connection	GT1030-L D2/L DW2, GT1020-L D2/L DW2						
GT10	GT1030		GT1030-L_D/L_DW, GT1030-L_L/L_LW, GT1020-L_D/L_DW,						
	GT1020	RS-422 connection	GT1020-L_L/L_LW						
			(For GT1030-L L/L LW and GT1020-L L/L LW, MELSEC-FXCPU connection is						
			available only.)						

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Available unit for computer link connection

Unit -	GT16/GT15	/GT11/GT10	GT SoftGOT1000				
	RS-422	RS-232	RS-422	RS-232			
MEMOBUS Module/ Communications Module	JAMSC- 120NOM27100 JAMSC-IF612 217IF 217IF-01	JAMSC-IF60 JAMSC-IF61 CP-217IF 217IF 217IF-01 218IF-01	-	JAMSC-IF60 JAMSC-IF61 CP-217IF 217IF 217IF-01 218IF-01			

Available unit for Ethernet connection

Unit	Model
Communications Module	218IF, 218IF-01

Precautions

Precautions on system

- When connecting a GOT to the YASKAWA programmable controller, connect a terminating resistor to the programmable controller as necessary. The GOT has a built-in terminating resistor.
- The target device of an Ethernet cable differs depending on the Ethernet network system configuration to be used.

Connect the cable to appropriate devices such as Ethernet modules, hubs, and transceivers, depending on the Ethernet network system to be used.

When connecting GT16 (Excluding GT16 Handy) of function version A to an equipment that meets the 10BASE (-T/2/5) standard, use a switching hub and operate in an environment where 10Mbps and 100Mbps can be mixed.
For both the function version, refer to the following.

For how to check the function version, refer to the following.

GT16 User's Manual (Hardware)

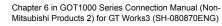
Communication via network system

A GOT cannot access a programmable controller on the other networks via a programmable controller (the network module, Ethernet module, and others) on the network where the GOT is connected.

- When connecting multiple network devices (including a GOT) to the same segment When multiple network devices (including a GOT) are connected to the same segment, the network load may increase, and the communication speed may slow down between the GOT and a programmable controller. The following actions can improve the communication performance.
 - · Use a switching hub.
 - Use the high-speed 100BASE-TX (100Mbps).
 - Reduce the GOT monitoring points.

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking of YASKAWA programmable controller connection



· For connection method with Handy GOT

Chapter 47 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 34 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

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4.3.14 YOKOGAWA programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

	Model		GT	16/GT15/0	GT11		GT SoftGOT1000						
Series		Computer link connection		Direct CPU connection		Ethernet	Computer link connection		Direct CPU connection		Ethernet		
		RS-422	RS-232	RS-422	RS-232	-	RS-422	RS-232	RS-422	RS-232			
FA500	FA500	C	*1	×	×	×					×		
	F3SP05	0			0	0					\sim		
	F3SP08	0			0	0	×		×	×	0		
	F3SP10	×				×							
	F3SP20				×						×		
	F3SP30		0	×	0								
	F3FP36					0		×					
	F3SP21												
FA-M3	F3SP25												
	F3SP35										0		
	F3SP28												
	F3SP38												
	F3SP53												
	F3SP58												
	F3SP59												
	F3SP66 F3SP67	×	×										
STARDOM	NFCP100	×	×	×	0	×	İ				×		
0.1.2.0.0	NFJT100	~	~	~		~					\sim		

*1 Either RS-422 or RS-232 interface can be selected.

*2 Available only for GT16 and GT15.

The GOT model to be used differs depending on the connection type.

	Series Connection type		GOT model to be used					
GT16		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)					
		Connections other than the above	All the models (communication units connected to the GOT main unit)					
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD					
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)					
0115		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)					
GT11 Handy GOT		RS-232 or RS-422 connections	GT115 -Q BD					
		Bus connection	GT115 -Q BDQ, GT115 -Q BDA					
		RS-232 or RS-422 connections	GT115 HS-Q BD					

Available unit for computer link connection

Unit	RS-422	RS-232
	LC02-0N	LC01-0N
	F3LC11-2N	LC02-0N
DC link module		F3LC01-1N
PC link module		F3LC11-1N
		F3LC11-1F
		F3LC12-1F

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Available unit for Ethernet connection

Unit Model Ethernet Interface Module F3LE01-5T, F3LE11-0T, F3LE12-0T Precautions Precautions on system Precautions for connecting to FA-M3 For connecting the GOT to the programming tool interface connector with the CPU port/D-sub 9-pin conversion cable, the GOT cannot connect to the F3SP10, F3SP20, F3SP30, and F3SP36. The F3SP10 is not applicable to the PC link module (F3LC11-2N). A GOT cannot connect to the F3P10 via the RS-422 interface. Precautions for connecting to STARDOM Dual-redundant configuration When the dual-redundant configuration is used with STARDOM, the GOT cannot connect to STARDOM. System alarm Programmable controller errors in the system alarm are not displayed. Clock setting of GOT STARDOM does not have the clock data write/read function. Even though [Adjust] or [Broadcast] is set for the clock setting, the setting is invalid (not processed). When connecting a GOT to the PC link module, connect a terminating resistor for the PC link module. The GOT has a built-in terminating resistor. The target device of an Ethernet cable differs depending on the Ethernet network system configuration to be used Connect the cable to appropriate devices such as Ethernet modules, hubs, and transceivers, depending on the Ethernet network system to be used. When connecting GT16 (Excluding GT16 Handy) of function version A to an equipment that meets the 10BASE (-T/2/5) standard, use a switching hub and operate in an environment where 10Mbps and 100Mbps can be mixed. For how to check the function version, refer to the following. GT16 User's Manual (Hardware) Communication via network system A GOT cannot access a programmable controller on the other networks via a programmable controller (the network module. Ethernet module, and others) on the network where the GOT is connected. When connecting multiple network devices (including a GOT) to the same segment When multiple network devices (including a GOT) are connected to the same segment, the network load may increase, and the communication speed may slow down between the GOT and a programmable controller. The following actions can improve the communication performance. Use a switching hub. · Use the high-speed 100BASE-TX (100Mbps). · Reduce the GOT monitoring points. Precautions on setup Set the switch of the PC link module before installing the PC link module on a base unit. Polar difference between GOT and YOKOGAWA product For signal names, poles A and B are reversed between a GOT and a YOKOGAWA product. When connecting a GOT to YOKOGAWA programmable controller, devices to be set for objects must be in the device range of YOKOGAWA programmable controller. When a device outside the device range is set for an object, an invalid value is displayed for the object. (The error is not displayed in the system alarm.)

- · For details of system configuration and connection cable
- · For precautions and restrictions
- · For outlined procedure and checking of YOKOGAWA programmable controller connection



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Chapter 48 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 35 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)

Chapter 7 in GOT1000 Series Connection Manual (Non-

Mitsubishi Products 2) for GT Works3 (SH-080870ENG)

For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

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4.3.15 ALLEN-BRADLEY programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

		GT16/GT15/GT11					GT10					
Series	Model	Computer link connection			t CPU ection	Ether- net ^{*4}	Computer link connection		Direct CPU connection		Ether- net ^{*4}	
		RS- 422	RS- 232	RS- 422	RS- 232	net	RS- 422	RS- 232	RS- 422	RS- 232	net	
SLC500 series*1	SLC500-20 SLC500-30 SLC5/01 SLC5/02 SLC5/03 SLC5/04 SLC5/05	×	×	×	0	×	×	×	×	×	×	
MicroLogix1000 series (digital CPU)' ¹	1761-L10BWA 1761-L10BWB 1761-L16BWA 1761-L16BWA 1761-L16BWB 1761-L16BBB 1761-L32BWA 1761-L32BWA 1761-L32BWB 1761-L32BBB 1761-L32BAA	×	×	×	0	×	×	×	×	0	×	
MicroLogix1000 series (analog CPU) ^{112*3} MicroLogix1200 series ^{*1} MicroLogix1500 series ^{*1}	1761-L20AWA-5A 1761-L20BWA-5A 1761-L20BWB-5A 1762-L24BWA 1764-LSP	+ - - -										
ControlLogix series	1756-L 1756-L1M1 1756-L1M2 1756-L61 1756-L61 1756-L62 1756-L63 1756-L55M12 1756-L55M13 1756-L55M14 1756-L55M2 1756-L55M23 1756-L55M23	×	×	×	0	0	×	×	×	×	×	

		GT15/GT11				GT10					
Series	Model		puter nk ection		t CPU ection	Ether- net ^{*4}	lir	puter 1k ection	Direct		Ether-
		RS- 422	RS- 232	RS- 422	RS- 232	net *	RS- 422	RS- 232	RS- 422	RS- 232	net ^{*4}
	1769-L31					×					
	1769-L32E					0					
CompactLogix series	1769-L32C	×	×	×	0	×	×	×	×	×	×
	1769-L35E					0					
	1769-L35CR					×					
FlexLogix series	1794-L33 1794-L34	×	×	×	0	×	×	×	×	×	×

*1 Connectable to the DH485 network via Adapter (1770-KF3).

*2 The CPU of series C or later is applicable for connecting to the DH485 network. (The DH485 protocol is not supported for series B or earlier.)

*3 The CPU of series D or later is applicable to the one-on-one connection. (The DF1 half duplex is not supported for series C or earlier.)

*4 Available only for GT16 and GT15. EtherNet/IP (PCCC protocol) is supported.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)
0115		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)
		RS-232 or RS-422 connections	GT115 -Q BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD
	GT105	RS-232 or RS-422 connections	GT105 -Q BD
	GT104	RS-232 or RS-422 connections	GT104Q_BD
		RS-232 connection	GT1030-L_D2/L_DW2, GT1020-L_D2/L_DW2
GT10	GT1030		GT1030-L_D/L_DW, GT1030-L_L/L_LW, GT1020-L_D/L_DW,
	GT1030	RS-422 connection	GT1020-L_L/L_LW
			(For GT1030-L_L/L_LW and GT1020-L_L/L_LW, MELSEC-FXCPU connection is
			available only.)

Available unit for Ethernet connection

Unit	Model	
EtherNet/IP communication module	1756-ENET, 1756-ENBT	
		ì

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Precautions

Precautions on system

- The target device of an Ethernet cable differs depending on the Ethernet network system configuration to be used. Connect the cable to appropriate devices such as Ethernet modules, hubs, and transceivers, depending on the Ethernet network system to be used.
 When accessible OT40 (Findules OT40 (Findules)) of finantiae president that model that mod
- When connecting GT16 (Excluding GT16 Handy) of function version A to an equipment that meets the 10BASE (-T/2/5) standard, use a switching hub and operate in an environment where 10Mbps and 100Mbps can be mixed.

For how to check the function version, refer to the following.

GT16 User's Manual (Hardware)

Communication via network system

A GOT cannot access a programmable controller on the other networks via a programmable controller (the network module, Ethernet module, and others) on the network where the GOT is connected.

- In case of connecting multiple network devices (including a GOT) to the same segment When multiple network devices (including a GOT) are connected to the same segment, the network load may increase, and the communication speed may slow down between the GOT and a programmable controller. The following actions can improve the communication performance.
 - Use a switching hub.
 - · Use the high-speed 100BASE-TX (100Mbps).
 - · Reduce the GOT monitoring points.

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking for ALLEN-BRADLEY programmable controller connection
- · For connection method with Handy GOT



Chapter 52 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 36 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)

Chapter 11 in GOT1000 Series Connection Manual (Non-

Mitsubishi Products 2) for GT Works3 (SH-080870ENG)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

4.3.16 GE FANUC programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

Series	Model	Computer lin	k connection	Direct CPU connection		
Series	woder	RS-422	RS-232	RS-422	RS-232	
Series 90 - 30	IC693CPU311	0	0	×	×	
	IC693CPU313	0	0	×	×	
	IC693CPU323	Ō	Ō	×	×	
	IC693CPU350	0	0	0	0	
	IC693CPU360	Ö	Ō	Ō	Ō	
	IC693CPU363	0	0	0	0	
	IC693CPU366	0	0	0	0	
	IC693CPU367	0	0	0	0	
	IC693CPU374	0	0	0	0	
eries 90 - 70	IC697CPU731	0	0	×	×	
	IC697CPX772	Ö	Ō	×	×	
	IC697CPX782	Ō	Ō	Х	×	
	IC697CPX928	Ö	Ō	×	×	
	IC697CPX935	Ō	Ō	×	×	
	IC697CPU780	0	Ō	×	×	
	IC697CGR772	0	0	×	×	
	IC697CGR935	Ö	Ō	×	×	
	IC697CPU788	0	0	×	×	
	IC697CPU789	Ö	0	×	×	
	IC697CPM790	0	0	×	×	
ersaMax Micro	IC200UAA003	0	0	0	0	
ersalviax iviiciu	IC200UAR014	×	×	×	Ō	
	IC200UDD104	×	×	×	Õ	
	IC200UDD112	×	×	×	Ō	
	IC200UDR001	×	×	×	Õ	
	IC200UDR002	×	×	×	Ō	
	IC200UDR003	×	×	×	Ō	
	IC200UAL004	×	×	0	Ŏ	
	IC200UAL005	×	×	ŏ	Ŏ	
	IC200UAL006	×	×	Ŏ	Ŏ	
	IC200UAA007	×	×	Ŏ	Ŏ	
	IC200UAR028	×	×	Ŏ	Ŏ	
	IC200UDD110	×	×	Ŏ	Ŏ	
	IC200UDD120	×	×	Ŏ	Ŏ	
	IC200UDD212	×	×	Ŏ	Ŏ	
	IC200UDR005	×	×	ŏ	ŏ	
	IC200UDR006	×	×	Ŏ	Ŏ	
	IC200UDR010	×	×	ŏ	ŏ	
	IC200UDD064	0	0	Ŏ	Ő	
	IC200UDD164	Ŏ	Ŏ	ŏ	ŏ	
	IC200UDR164	Ŏ	Ŏ	Ŏ	Ŏ	
	IC200UDR064	0	0		Ő	

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The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used	
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)	
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)	
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD	
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)	
0115		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)	
		RS-232 or RS-422 connections	GT115 -Q BD	
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA	
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD	

Available unit for computer link connection

Unit	RS-422	RS-232
Communication Medulas	IC693CMM311	IC693CMM311
Communication Modules	IC697CMM711	IC697CMM711

Precautions

Precautions on system

When connecting a GOT to the GE FANUC programmable controller, set a terminating resistor for the programmable controller.

The GOT has a built-in terminating resistor.

Clock setting of GOT

The PLC clock data cannot be written to or read from the GOT.

The settings of "time adjusting" or "time broadcast" made on the GOT will be disabled on the PLC.

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking for GE FANUC programmable controller connection

· For connection method with Handy GOT



Chapter 53 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 37 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)

Chapter 12 in GOT1000 Series Connection Manual (Non-

Mitsubishi Products 2) for GT Works3 (SH-080870ENG)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

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4.3.17 LS INDUSTRIAL SYSTEMS programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

Series	Model	Computer lin	k connection	Direct CPU	Ethernet	
Selles	Woder	RS-422	RS-232	RS-422	RS-232	Luiemet
K300S	K4P-15AS	0	0	×	×	×
K200S	K3P-07_S	0	0	×	×	×
K120S	K7M-D	0	0	×	0	×
K80S	K7M-D	0	0	×	0	х

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)
0110		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA
	Handy GOT	RS-232 or RS-422 connections	GT115 HS-Q BD
	GT105	RS-232 or RS-422 connections	GT105Q_BD
	GT104	RS-232 or RS-422 connections	GT104Q_BD
		RS-232 connection	GT1030-L_D2/L_DW2, GT1020-L_D2/L_DW2
GT10	GT1030		GT1030-L_D/L_DW, GT1030-L_L/L_LW, GT1020-L_D/L_DW,
	GT1030	RS-422 connection	GT1020-L_L/L_LW
			(For GT1030-L L/L LW and GT1020-L L/L LW, MELSEC-FXCPU connection is
			available only.)

Available unit for computer link connection

Unit	RS-422	RS-232
Cnet I/F modules	G7L-CUEC G6L-CUEC G4L-CUEA	G7L-CUEB G6L-CUEB G4L-CUEA

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Related Manuals —						
 For details of system configuration and connection cable 						
 For precautions and restrictions 		Chapter 13 in GOT1000 Series Connection Manual (Non-				
For outlined procedure and checking for LS INDUSTRIAL SYSTEMS programmable controller programmable controller connection		Mitsubishi Products 2) for GT Works3 (SH-080870ENG)				
For connection method with Handy GOT		Chapter 54 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 38 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)				

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

4.3.18 SICK safety controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

Series	Computer lin	k connection	Direct CPU connection		
Series	RS-422	RS-232	RS-422	RS-232	
FX3-CPU000000	×	×	×	0	
FX3-CPU130002	×	×	×	0	

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used	
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)	
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)	
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD	
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)	
0115		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)	
		RS-232 or RS-422 connections	GT115Q_BD	
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA	
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD	
	GT105	RS-232 or RS-422 connections	GT105Q_BD	
	GT104	RS-232 or RS-422 connections	GT104Q_BD	
		RS-232 connection	GT1030-L_D2/L_DW2, GT1020-L_D2/L_DW2	
GT10	GT1030		GT1030-L_D/L_DW, GT1030-L_L/L_LW, GT1020-L_D/L_DW,	
	GT1030 GT1020	RS-422 connection	GT1020-L_L/L_LW	
			(For GT1030-L_L/L_LW and GT1020-L_L/L_LW, MELSEC-FXCPU connection is	
			available only.)	

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking for SICK safety controller connection
- · For connection method with Handy GOT

Chapter 14 in GOT1000 Series Connection Manual (Non-Mitsubishi Products 2) for GT Works3 (SH-080870ENG)

Chapter 55 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 52 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

GOT

CONFIGURATION **P** FUNCTION

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4.3.19 SIEMENS programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

Series	Computer lin	k connection	Direct CPU connection	
Jenes	RS-422	RS-232	RS-422	RS-232
SIMATIC S7-200 series				
SIMATIC S7-300 series	×	×	×	0
SIMATIC S7-400 series				

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)
0110		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD
	GT105	RS-232 or RS-422 connections	GT105Q_BD
	GT104	RS-232 or RS-422 connections	GT104□-Q□BD
		RS-232 connection	GT1030-L D2/L DW2, GT1020-L D2/L DW2
GT10	GT1030		GT1030-L_D/L_DW, GT1030-L_L/L_LW, GT1020-L_D/L_DW,
	GT1030	RS-422 connection	GT1020-L_L/L_LW
			(For GT1030-L_L/L_LW and GT1020-L_L/L_LW, MELSEC-FXCPU connection is
			available only.)

Precautions

Other precautions

Alarm list display function (system alarm) for GOT When a COT is connected to the SIEMENS programmable contribution.

When a GOT is connected to the SIEMENS programmable controller, programmable controller errors cannot be displayed with the alarm list display function (system alarm). (Check the errors with monitoring the SIEMENS programmable controller with the GOT.)

At system start-up

- (1) At power-on
 - Power on all the programmable controller CPU before powering on a GOT. When powering on the programmable controller CPU after powering on a GOT, reboot the GOT.
- (2) At power-off of other station programmable controller CPU When any of the other programmable controller CPUs (that are not connected to HMI Adapter) is powered off, a GOT stops monitoring. When rebooting the GOT, the GOT can start monitoring. (Even though the programmable controller is powered on again, the GOT does not restart monitoring.)

WRelated Manuals -	
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking for SIEMENS programmable controller connection 	Chapter 15 in GOT1000 Series Connection Manual (Non- Mitsubishi Products 2) for GT Works3 (SH-080870ENG)
For connection method with Handy GOT	Chapter 56 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 39 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

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SOFTWARE

CONNECTION CONFIGURATION **A** FUNCTION

4.4 Other third party devices

4.4.1 Connection type

System configuration -

The following shows connection with a third party device. The available connection type and GOT differ according to the manufacturer. For details, refer to the section for each programmable controller.

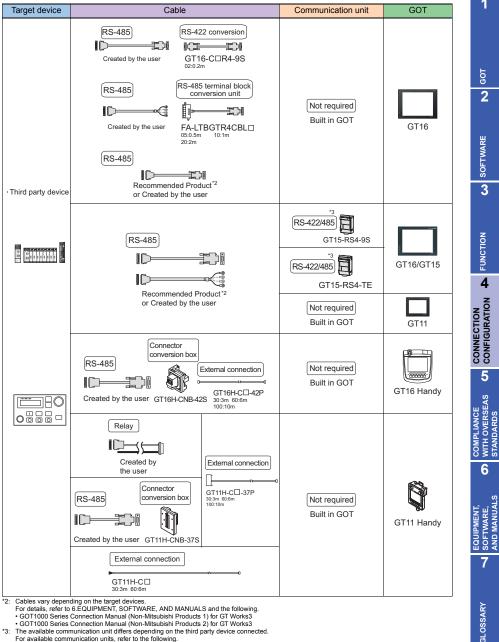
1) RS-232 Target device Cable Communication unit GOT Not required Built in GOT RS-232 Н GT16/GT15 RS-232 GT15-RS2-9P Recommended Product Not required or Created by the user Built in GOT GT11 · Third party device Not required Built in GOT GT1050/GT1040 GOT Communication unit E Elanondo -1 m= Not required Created by the user Built in GOT GT1030/GT1020 Connector conversion box RS-232 External connection Not required Built in GOT Recommended Product^{*1} GT16H-CNB-42S GT16 Handy GT16H-C□-42P 30:3m Relay SRO 00000 Created by External connection the user Connector GT11H-C -37P conversion box Not required RS-232 Built in GOT GT11 Handy Recommended Product*1 or Created by the user GT11H-CNB-37S External connection GT11H-C 30:3m 60:6m

*1: Cables vary depending on the target devices. For details, refer to 6.EQUIPMENT, SOFTWARE, AND MANUALS and the following.

· GOT1000 Series Connection Manual (Non-Mitsubishi Products 1) for GT Works3

GOT1000 Series Connection Manual (Non-Mitsubishi Products 2) for GT Works3

2) RS-485



4.4.2 Panasonic servo amplifier

For details of the system configuration, refer to "Connection type" in section 4.4.1.

Connectable GOT



Connectable models

Series	RS-485	RS-232
MINAS A4	0	0
MINAS A4F	0	0
MINAS A4L	0	0

The GOT model to be used differs depending on the connection type.

Series Connection type GOT model to be used		GOT model to be used	
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)
0110		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)
		RS-232 or RS-422 connections	GT115 -Q BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking of Panasonic servo amplifier connection
- · For connection method with Handy GOT



Chapter 13 in GOT1000 Series Connection Manual (Non-Mitsubishi Products 1) for GT Works3 (SH-080869ENG)

Chapter 41 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 51 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

>

4.4.3 IAI robot controller

For details of the system configuration, refer to "Connection type" in section 4.4.1.

Connectable GOT



Connectable models

Series	Model	RS-232
	XSEL-J	0
	XSEL-K	0
	XSEL-KE	0
	XSEL-KT	0
	XSEL-KET	0
X-SEL	XSEL-P	0
X-OLL	XSEL-Q	0
	XSEL-JX	0
	XSEL-KX	0
	XSEL-KTX	0
	XSEL-PX	0
	XSEL-QX	0
SSEL	SSEL	⊖* ¹

*1 The connector conversion cable (CB-SEL-SJ002) is required.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)
0115		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA
	Handy GOT	RS-232 or RS-422 connections	GT115 HS-Q BD
	GT105	RS-232 or RS-422 connections	GT105Q_BD
	GT104	RS-232 or RS-422 connections	GT104Q_BD
		RS-232 connection	GT1030-L_D2/L_DW2, GT1020-L_D2/L_DW2
GT10	GT1030		GT1030-L_D/L_DW, GT1030-L_L/L_LW, GT1020-L_D/L_DW,
	GT1020		GT1020-L_L/L_LW
			(For GT1030-L_L/L_LW, GT1020-L_L/L_LW, MELSEC-FXCPU connection is available only.)

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking of IAI robot controller connection
- · For connection method with Handy GOT



Chapter 2 in GOT1000 Series Connection Manual (Non-Mitsubishi Products 1) for GT Works3 (SH-080869ENG)

Chapter 30 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 51 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

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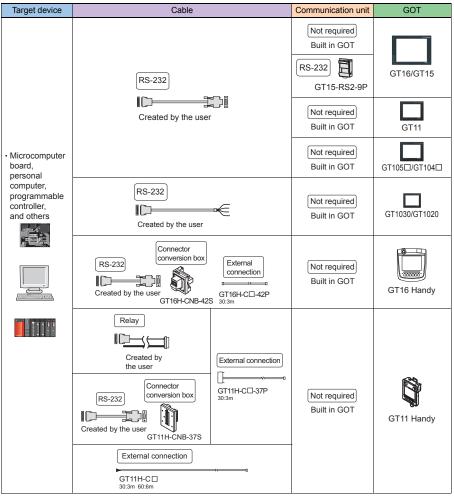
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4.5 Microcomputer connection

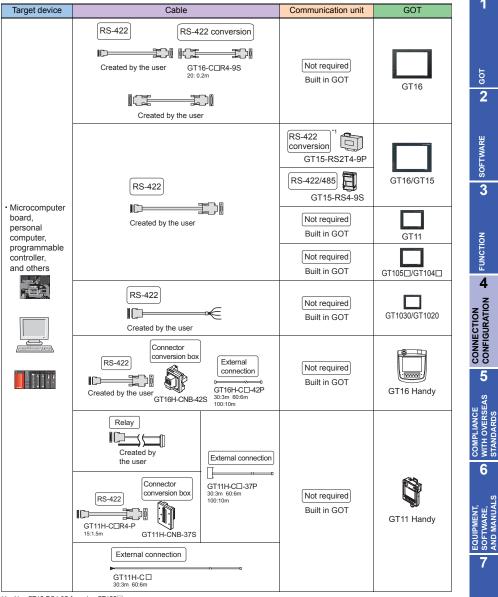
4.5.1 Microcomputer connection (Serial)

System configuration -

1) When connecting to one GOT (RS-232)



2) When connecting to one GOT (RS-422)



*1: Use GT15-RS4-9S for using GT155

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3) When connecting to multiple GOTs

Target o	device ^{*2}	GOT (n-th) ^{*3}	Cable	GOT (n+1th) *3
	RS-232		RS-232 ©ID======= GT10-CIIR2-6P 30:3m	GT1030/GT1020
 Microcomputer board, personal computer, programmable 	RS-422	GT1030/GT1020	RS-232 GT01-C30R2-6P(3m)	GT105□/GT104□
controller, and others	RS-232		RS-422 Created by the user	GT1030/GT1020
	10-232	GT105□/GT104□	RS-422	GT105□/GT104□
	RS-422		RS-422 Created by the user	GT1030/GT1020
		GT105□/GT104□	RS-422	GT105□/GT104□

*2: For the system configuration between GOT and the host, refer to the following.

I) When connecting to one GOT (RS-232)

2) When connecting to one GOT (RS-422)

*3: This is the connection type (for n-th and n+1th from the host) of GOT, which is connected to the host.
 *4: Only RS-232 interface (built into GOT) can be connected to the n+1th GOT.
 *5: Only RS-422 interface (built into GOT) (24V) can be connected to the n+1th GOT.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)
Handy GOT		RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)
0110		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD
	GT105	RS-232 or RS-422 connections	GT105Q_BD
	GT104	RS-232 or RS-422 connections	GT104Q_BD
		RS-232 connection	GT1030-L_D2/L_DW2, GT1020-L_D2/L_DW2
GT10	GT1030		GT1030-L_D/L_DW, GT1030-L_L/L_LW, GT1020-L_D/L_DW,
	GT1020	RS-422 connection	GT1020-L_L/L_LW
	113422 connection		(For GT1030-L L/L LW, GT1020-L L/L LW, MELSEC-FXCPU connection is
			available only.)

Precautions

Other precautions

 Virtual device in GOT The virtual device in a GOT is used for the microcomputer connection. (Devices for a programmable controller are not used.)

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking of microcomputer connection
- For connection method with Handy GOT



Chapter 2 in GOT1000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3 (SH-080871ENG)



Chapter 58 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 41 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

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CONNECTION CONFIGURATION **A** FUNCTION

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COMPLIANCE WITH OVERSEAS STANDARDS

4.5.2 Microcomputer connection (Ethernet)

System configuration Target device Cable Communication unit GOT Microcomputer Not required Ethernet board. Built in GOT personal en b computer, RS-232 programmable 10BASE-T cable GT16/GT15 controller. 100BASE-TX cable GT15-RS2-9P and others Connector conversion box Ethernet External Not required connection e The Built in GOT 10BASE-T cable GT16 Handy GT16H-C□-42P GT16H-CNB-42S 100BASE-TX cable 30:3m

*1: Use a cable that supports the Ethernet network system to be used.

*2: When connecting GT16 (Excluding GT16 Handy) of function version A to an equipment that meets the 10BASE (-T/2/5) standard, use a switching hub and operate in an environment where 10Mbps and 100Mbps can be mixed.

The GOT model to be used differs depending on the connection type.

Series		Connection type	GOT model to be used
		connection	All the models (built-in interfaces of the GOT main unit)
GT16		above	All the models (communication units connected to the GOT main unit)
Handy GOT RS-232, RS-422/485 or Ethernet connection GT1665HS-VTBD		RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)
0115		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)

Precautions

Other precautions

Virtual device in GOT

The virtual device in a GOT is used for the microcomputer connection. (Devices for a programmable controller are not used.)

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking of microcomputer connection

· For connection method with Handy GOT

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Chapter 3 in GOT1000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3 (SH-080871ENG)

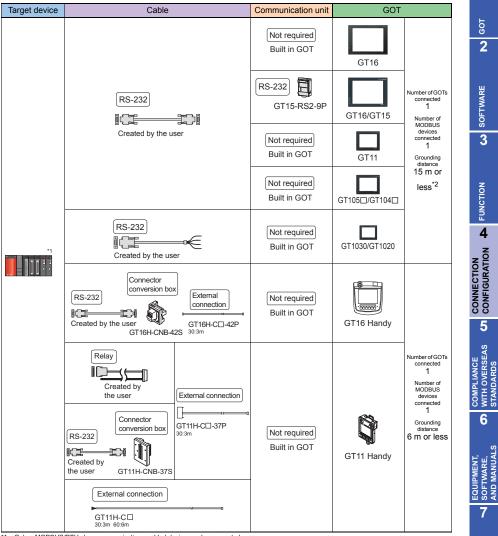
Chapter 59 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 41 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

4.6 MODBUS(R) connection

4.6.1 MODBUS(R)/RTU connection

1) RS-232



1: Only a MODBUS/RTU slave communication enabled device can be connected. 2: The shortest specification on the MODBUS equipment side is prioritized when the specification on the MODBUS equipment side is 6m/15m or less.

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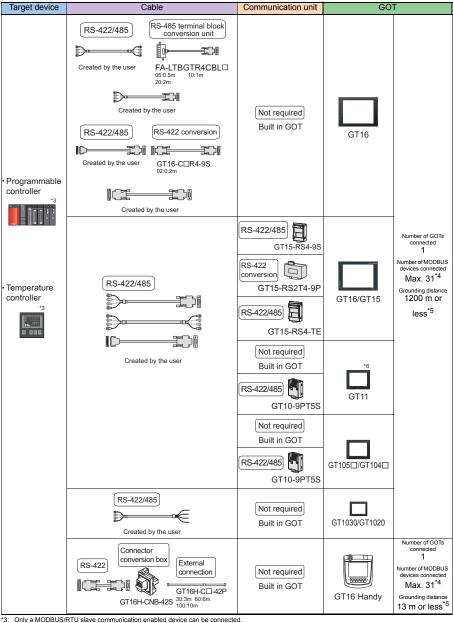
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2) RS-422



*4: The shortest specification of the maximum connection number on the MODBUS equipment side is prioritized when the specification on the MODBUS equipment side is 31 units or less.

The shortest specification on the MODBUS equipment side is prioritized when the specification on the MODBUS equipment side is 13m/1,200m or less. *5: *6: GT11 supports only 2 pair wiring.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)
0115		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD
	GT105	RS-232 or RS-422 connections	GT105Q_BD
	GT104	RS-232 or RS-422 connections	GT104Q_BD
		RS-232 connection	GT1030-L_D2/L_DW2, GT1020-L_D2/L_DW2
GT10	GT1030		GT1030-L_D/L_DW, GT1030-L_L/L_LW, GT1020-L_D/L_DW,
	GT1020	RS-422 connection	GT1020-L_L/L_LW
	011020	13-422 connection	(For GT1030-L_L/L_LW, GT1020-L_L/L_LW, MELSEC-FXCPU connection is
			available only.)

Connectable GOT

GOT	Hardware version	Standard monitor OS
GT16, 15	Version A or later	-
GT1155-QTBD	Version C or later	-
GT1155-QSBD	Version F or later	-
GT1150-QLBD	Version F or later	-
GT1055-QSBD, CGT1050-QBBD	Version B or later	
GT1045-QSBD, CGT1040-QBBD	Version A or later	
GT1030-LBD, CGT1030-LBDW	Version B or later	Standard monitor OS [01.12.**] or later
GT1020-LBD, CGT1020-LBDW	Version D or later	

Precautions

Precautions on system

 Up to 31 MODBUS equipment can be cor Set any station No. from 1 to 247 to each Make sure that the MODBUS equipment of the system configuration. The station No. can be set regardless the are not consecutive. Clock setting of GOT Even though [Adjust] or [Broadcast] is set Disconnecting some of multiple connecte The GOT can disconnect some of multiple 	 The station No. can be set regardless the cable connection order. There is no problem even if station Nos. are not consecutive. Clock setting of GOT Even though [Adjust] or [Broadcast] is set for the clock setting, the setting is invalid (not processed). Disconnecting some of multiple connected equipment The GOT can disconnect some of multiple connected equipment by setting GOT internal device. For example, the faulty station where a communication timeout error occurs can be disconnected from 							
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of MODBUS^o /RTU connection 		Chapter 4 in GOT1000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3 (SH-080871ENG)						
For connection method with Handy GOT	►	Chapter 60 in GT16 Handy GOT User's Manual (JY997D41201,JY997D41202) Chapter 42 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)						

For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

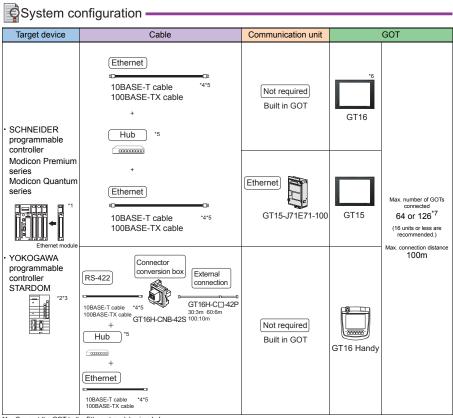
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4.6.2 MODBUS(R)/TCP connection



*1: Connect the GOT to the Ethernet module via a hub.
 *2: When connecting a GOT to a programmable controller, connect to the programmable controller Ethernet port via a hub.

*3: When connecting STARDOM of the YOKOGAWA programmable controller via MODBUS® /TCP connection, Modbus Communication Portfolio License is required. For details, refer to the YOKOGAWA programmable controller manual.

*4: For the twisted pair cable, use the straight cable.

*5: Use cables, connectors, and hubs that are compliant with the IEEE802.3 10BASE-T/100BASE-TX standard.

*6: When connecting GT16 (Excluding GT16 Handy) of function version A to an equipment that meets the 10BASE (-T/2/5) standard, use a switching hub and operate in an environment where 10Mbps and 100Mbps can be mixed. For how to check the function version, refer to the following.

•GT16 User's Manual (Hardware)

*7: Up to 126 GOTs can be connected to STARDOM of the YOKOGAWA programmable controller.

Connectable models

			GT16/GT15
Manufacturer	Series	Model	MODBUS [®] /TCP
			connection*8
		TSX P57 203M	
		TSX P57 253M	
	Modicon Premium	TSX P57 303M	
		TSX P57 353M	
		TSX P57 453M	
	Modicon Quantum	140 CPU 311 10	
		140 CPU 434 12U	
Schneider Electric SA		140 CPU 534 14U	0
		140 CPU 651 50	_
		140 CPU 651 60	
		140 CPU 671 60	
		140 CPU 113 02	
		140 CPU 113 03	
		140 CPU 434 12A	
		140 CPU 534 14A	
Yokogawa Electric	STARDOM	NFCP100	0
Corporation	STARDOM	NFJT100	0

*8 Supporting only MODBUS[©] /TCP connection. Ethernet connection is not available.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used		
	connection		All the models (built-in interfaces of the GOT main unit)		
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)		
	Handy GOT RS-232, RS-422/485 or Ethe connection		GT1665HS-VTBD		
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)		
GT15		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)		

Available unit for MODBUS[®] /TCP connection

Unit	Model
	TSX ETY 4102 TSX ETY 5102
SCHNEIDER Ethernet module	140 NOE 771 00 140 NOE 771 10 140 NWM 100 00

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Precautions on system

- Precautions for connecting to STARDOM
 - Dual-redundant configuration

When the dual-redundant configuration is used with STARDOM, the GOT cannot connect to STARDOM.

- System alarm
- Programmable controller errors in the system alarm are not displayed.

 Clock setting of GOT STARDOM does not have the clock data write/read function. Even though [Adjust] or [Broadcast] is set for the clock setting, the setting is invalid (not processed).

When connecting multiple network devices (including a GOT) to the same segment When multiple network devices (including a GOT) are connected to the same segment, the network load may increase, and the communication speed may slow down between the GOT and a programmable controller. The following actions can improve the communication performance.

- · Use a switching hub.
- Use the high-speed 100BASE-TX (100Mbps).
- · Reduce the GOT monitoring points.
- When connecting GT16 (Excluding GT16 Handy) of function version A to an equipment that meets the 10BASE (-T/2/5) standard, use a switching hub and operate in an environment where 10Mbps and 100Mbps can be mixed.

For how to check the function version, refer to the following.

GT16 User's Manual (Hardware)

Precautions on setup

When connecting a GOT to YOKOGAWA programmable controller, devices to be set for objects must be in the device range of YOKOGAWA programmable controller.

When a device outside the device range is set for an object, an invalid value is displayed for the object. (The system alarm is not displayed).

Related Manuals

- · For details of system configuration and connection cable
- · For precautions and restrictions
- · For outlined procedure and checking of MODBUS[©] /TCP connection

For connection method with Handy GOT



Chapter 5 in GOT1000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3 (SH-080871ENG)

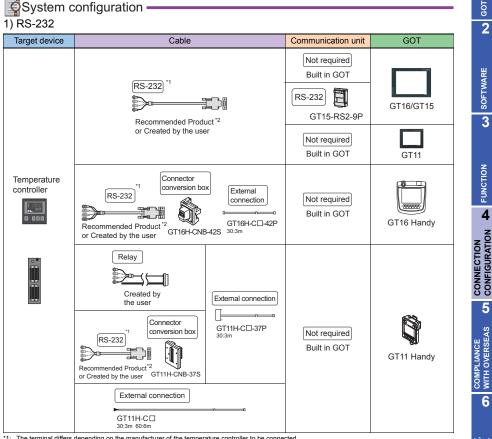
Chapter 61 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202)

 \sum *1 For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

4.7 Third Party Temperature Controller

4.7.1 Connection type

The following shows connection with a temperature controller. The available connection type and GOT differ according to the manufacturer. For details, refer to the section for each temperature controller.



*1: The terminal differs depending on the manufacturer of the temperature controller to be connected.

D (Modular type)

*2: Cables vary depending on the target devices

For details, refer to 6.EQUIPMENT, SOFTWARE, AND MANUALS and GOT1000 Series Connection Manual.

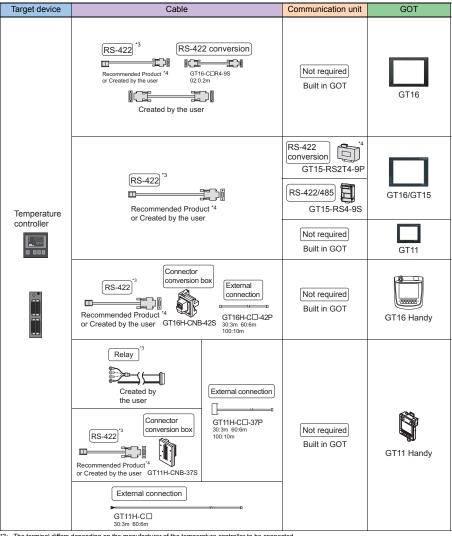
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2) RS-422



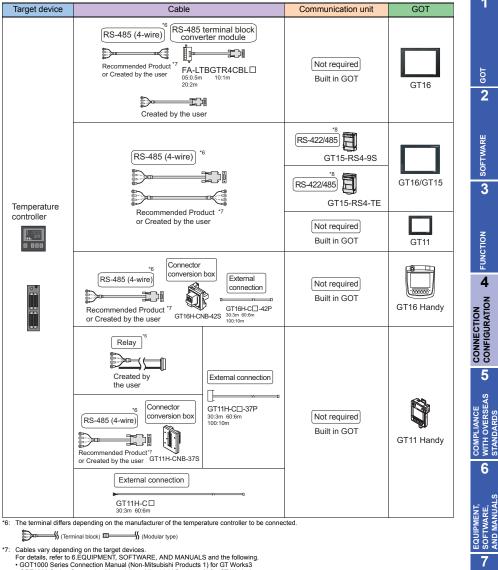
*3: The terminal differs depending on the manufacturer of the temperature controller to be connected.

(Modular type) ⋗

*4: Cables vary depending on the target devices. For details, refer to 6.EQUIPMENT, SOFTWARE, AND MANUALS and GOT1000 Series Connection Manual.

*5: For using GT155, use GT15-RS4-9S.

3) RS-485 (4-wire type)



 GOT1000 Series Connection Manual (Non-Mitsubishi Products 2) for GT Works3 *8: The available communication unit differs depending on the third party device connected. The available communication units, refer to the following. For available communication units, refer to the following. • GOT1000 Series Connection Manual (Non-Mitsubishi Products 1) for GT Works3 • GOT1000 Series Connection Manual (Non-Mitsubishi Products 2) for GT Works3

GLOSSARY

4) RS-485 (2-wire type)

Target device	Cable	Communication unit	GOT
Temperature controller	RS-485 (2-wire) Recommended Product ¹¹⁰ FA-LTBGTR4CBLD 05.0.5m 10.1m Created by the user	Not required Built in GOT	GT16
	RS-485 (2-wire) '9 Created by the user	RS-422/485	GT16/GT15

*9: The terminal differs depending on the manufacturer of the temperature controller to be connected.

(Modular type)

*10: Cables vary depending on the target devices. For details, refer to 6.EQUIPMENT, SOFTWARE, AND MANUALS and GOT1000 Series Connection Manual.

4.7.2 OMRON temperature controller

For details of the system configuration, refer to "Connection type" in section 4.7.1.

Connectable GOT



Connectable models

Model	Model		GT16/GT15				GT11			
Model			RS-422	RS-232	RS-485	RS-422	RS-232			
	E5AN	○ (2-wire type ^{*2})	×	O *1	×	×	O *1			
THERMAC NEO	E5EN	○ (2-wire type ^{*2})	×	O ^{*1}	×	×	O *1			
THERMAG NEO	E5CN	○ (2-wire type ^{*2})	×	O *1	×	×	O *1			
	E5GN	○ (2-wire type ^{*2})	×	O ^{*1}	×	×	O *1			
INPANEL NEO	E5ZN	○ (2-wire type ^{*2})	×	O *1	×	×	O *1			

*1 When the RS-485 interface of the temperature controller is used, use the RS-232/RS-485 converter.

*2 Not available for GT16 Handy.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used		
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)		
GT16	GT16 Connections other than the above All the mo		All the models (communication units connected to the GOT main unit)		
Handy GOT		RS-232, RS-422/485 or Ethernet connection	t GT1665HS-VTBD		
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)		
0110		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)		
		RS-232 or RS-422 connections	GT115 -Q BD		
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA		
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD		

Precautions

Precautions on system

When connecting a GOT to the OMRON temperature controller, set a terminating resistor for the temperature controller. For the GOT, set a terminating resistor with the DIP switches of the RS-422/485 serial communication unit.

 Clock setting of GOT The temperature controller does not have the clock function. Even though [Adjust] or [Broadcast] is set for the clock setting, the setting is invalid (not processed).

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking of OMRON temperature controller connection
- For connection method with Handy GOT



For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

>

Chapter 4 in GOT1000 Series Connection Manual (Non-

Mitsubishi Products 1) for GT Works3 (SH-080869ENG)

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4.7.3 SHINKO indicating controller

For details of the system configuration, refer to "Connection type" in section 4.7.1.

Connectable GOT



Connectable models

Series	Model	GT16	6/GT15		GT11		
Jenes	Woder	RS-485	RS-422	RS-232	RS-485	RS-422	RS-232
ACS-13A series	ACS-13A 🗌 / 🗌, 🗌, C5						
DCL-33A series	DCL-33A- 🗌 /M, 🗌, C5						
	JCS-33A- 🗌 / 🛄, C5	\bigcirc (2-wire type ^{*3})		* 2			*2
JC series	JCR-33A- 🗌 / 🛄, C5			0			0
	JCR-33A- 🗌 / 🛄, C5						
JCM-33A series	JCR-33A- 🗌 / 🗌, 🔲, C5						
	FCR-13A- 🗌 /M, C						
FCR-100 series	FCR-13A- 🗌 /M, C5				×	×	
FGR-100 Selles	FCR-15A- 🗌 /M, C		×				
	FCR-15A- 🗌 /M, C5						
	FCD-13A- 🗌 /M, C						
FCD-100 series	FCD-13A- 🗌 /M, C5	×					
T CD-100 Series	FCD-15A- 🗌 /M, C						
	FCD-15A- 🗌 /M, C5						
FCR-23A series	FCR-23A- 🗌 /M, C			○*1			⊖ ^{*1}
T OIC-20A Series	FCR-23A- 🗌 /M, C5						
	PC935- 🗌 /M, C						
PC-900 series	PC935- 🗌 /M, C5	○ (2-wire type ^{*3})					
PC-900 series	PC955- 🗌 /M, C	×					
	PC955- 🗌 /M, C5	○ (0ins to m a*3)					
PCD-300 series	PCD-33A- 🗌 /M, C5	(2-wire type ^{*3})					
FIR series	FIR-201-M,C	×	1				
	FIR-201-M,C5		-	*0			*0
JIR-301-M series	JIR-301-M 🗌, C5	\bigcirc (2-wire type ^{*3})		⊖ ^{*2}			⊖ ^{*2}

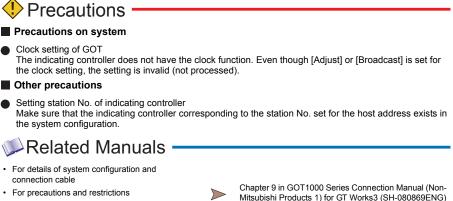
*1 A GOT can connect to only the indicating controller with RS-232 serial communication function.

*2 When the RS-485 interface of the indicating controller is used, use the RS-232/RS-485 converter.

*3 Not available for GT16 Handy.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used		
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)		
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)		
Handy GOT		RS-232, RS-422/485 or Ethernet connection	t GT1665HS-VTBD		
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)		
0115		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)		
		RS-232 or RS-422 connections	GT115 -Q BD		
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA		
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD		



- For outlined procedure and checking of SHINKO indicating controller connection
- · For connection method with Handy GOT

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Chapter 37 in GT16 Handy GOT User's Manual (JY997D41201,JY997D41202) Chapter 44 in GT11 Handy GOT User's Manual

(JY997D20101, JY997D20102)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

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4.7.4 CHINO controller

For details of the system configuration, refer to "Connection type" in section 4.7.1.

Connectable GOT



Connectable models

Series	Model	GT10	GT11				
Genes	Model	RS-485	RS-422	RS-232	RS-485	RS-422	RS-232
LT300 series	LT350, LT370	 (2-wire type^{*4}) 	0	⊖ ^{*1*2}	×	0	⊖ ^{*1*2}
LT400 series	LT450, LT470	 (2-wire type^{*4}) 	0	⊖ ^{*1*2}	×	0	⊖ ^{*1*2}
DZ1000 series	DZ1000 ^{*3}	○ (2-wire type ^{*4})	0	⊖ ^{*1*2}	×	0	⊖ ^{*1*2}
DZ2000 series	DZ2000 ^{*3}	○ (2-wire type ^{*4})	0	⊖ ^{*1*2}	×	0	⊖ ^{*1*2}
LT230 series	LT230	○ (2-wire type ^{*4})	×	O*1	×	×	O ^{*1}
LT830 series	LT830	 (2-wire type^{*4}) 	×	O*1	×	×	O ^{*1}
GT120 series	GT120	\bigcirc (2-wire type ^{*4})	×	O ^{*1}	×	×	⊖ ^{*1}
DB1000 series	DB1000	○ (2-wire type ^{*4})	0	0	×	0	0
DB2000 series	DB2000	○ (2-wire type ^{*4})	0	0	×	0	0

*1 When the RS-485 interface of the controller is used, use the RS-232/RS-485 converter.

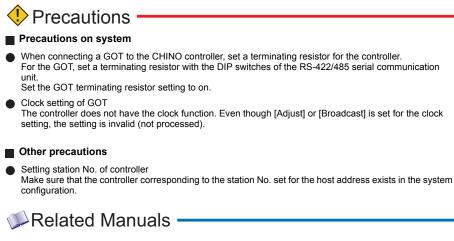
*2 When the RS-422 interface of the controller is used, use the RS-232/RS-422 converter.

*3 Select a model for supporting the MODBUS[®] communication function.

*4 Not available for GT16 Handy.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used		
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)		
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)		
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	t GT1665HS-VTBD		
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)		
0115		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)		
		RS-232 or RS-422 connections	GT115Q_BD		
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA		
	Handy GOT	RS-232 or RS-422 connections	GT115 HS-Q BD		



- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking of the CHINO controller connection

· For connection method with Handy GOT

>

Chapter 10 in GOT1000 Series Connection Manual (Non-Mitsubishi Products 1) for GT Works3 (SH-080869ENG)

Chapter 38 in GT16 Handy GOT User's Manual (JY997D41201, JY997D41202) Chapter 45 in Handy GOT User's Manual (JY997D20101, JY997D20102)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

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4.7.5 FUJI SYS temperature controller

For details of the system configuration, refer to "Connection type" in section 4.7.1.

Connectable GOT



Connectable models

Series	Model	GT16/GT15			GT11			
Series	Model	RS-485	RS-422	RS-232	RS-485	RS-422	RS-232	
	PXR3	\bigcirc (2-wire type ^{*2})	×	O*1	×	×	O *1	
PXR	PXR4	○ (2-wire type ^{*2})	×	O*1	×	×	O *1	
	PXR5	\bigcirc (2-wire type ^{*2})	×	O*1	×	×	O *1	
	PXR9	○ (2-wire type ^{*2})	×	O*1	×	×	O *1	
	PXG4	○ (2-wire type ^{*2})	×	O*1	×	×	O *1	
PXG	PXG5	○ (2-wire type ^{*2})	×	O*1	×	×	O *1	
	PXG9	\bigcirc (2-wire type ^{*2})	×	O*1	×	×	O *1	
PXH	PXH9	\bigcirc (2-wire type ^{*2})	×	O *1	×	×	O *1	

*1 When the RS-485 interface of the temperature controller is used, use the RS-232/RS-485 converter.

*2 Not available for GT16 Handy.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)
GIIS		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)
		RS-232 or RS-422 connections	GT115 -Q BD
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA
	Handy GOT	RS-232 or RS-422 connections	GT115 HS-Q BD

Precautions

Precautions on system

When connecting a GOT to the FUJI SYS temperature controller, set a terminating resistor for the temperature controller.

For the GOT, set a terminating resistor with the DIP switches of the RS-422/485 serial communication unit.

Clock setting of GOT The temperature controller does not have the clock function. Even though [Adjust] or [Broadcast] is set for the clock setting, the setting is invalid (not processed).

Precautions on setup

FIX processing of temperature controller Do not turn off the temperature controller during FIX processing. Doing so may damage the data stored in a nonvolatile memory, resulting in the failure of the temperature controller.

Other precautions

Setting station No. of temperature controller Make sure that the temperature controller corresponding to the station No. set for the host address exists in the system configuration.

Related Manuals	Related Manuals			
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of FUJI SYS temperature controller connection 		Chapter 5 in GOT1000 Series Connection Manual (Non- Mitsubishi Products 2) for GT Works3 (SH-080870ENG)	ECTION IGURATION A	
For connection method with Handy GOT		Chapter 46 in GT16 Handy GOT User's Manual (JY997D41201,JY997D41202) Chapter 47 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)	CONFI CONFI	

For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

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4.7.6 YAMATAKE temperature controller

For details of the system configuration, refer to "Connection type" in section 4.7.1.

Connectable GOT



Connectable models

Model		GT	16/GT15		GT11		
		RS-485	RS-422	RS-232	RS-485	RS-422	RS-232
SDC	SDC20/21	○ (4-wire type)	×	O *1	○ (4-wire type)	×	O ^{*1}
	SDC30/31	○ (4-wire type)	×	O*1	 (4-wire type) 	×	O ^{*1}
	SDC40A/40B/40G	○ (4-wire type)	×	O*1	 (4-wire type) 	×	O ^{*1}
	SDC15	○ (2-wire type ^{*2})	×	O *1	×	×	O*1
	SDC25/26	\bigcirc (2-wire type) ^{*2}	×	O *1	×	×	O*1
	SDC35/36	\bigcirc (2-wire type ^{*2})	×	O*1	×	×	O ^{*1}
DMC	DMC10	○ (2-wire type ^{*2})	×	O*1	×	×	O ^{*1}

*1 When the RS-485 interface of the temperature controller is used, use the RS-232/RS-485 converter.

*2 Not available for GT16 Handy.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)
0115		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD

Precautions

Precautions on system

When connecting a GOT to the YAMATAKE temperature controller, connect a terminating resistor for the temperature controller.

For the GOT, set a terminating resistor with the DIP switches of the RS-422/485 serial communication unit.

Clock setting of GOT

The temperature controller does not have the clock function. Even though [Adjust] or [Broadcast] is set for the clock setting, the setting is invalid (not processed).

Related Manuals -	
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of YAMATAKE temperature controller connection 	Chapter 9 in GOT1000 Series Connection Manual (Non- Mitsubishi Products 2) for GT Works3 (SH-080870ENG)
For connection method with Handy GOT	Chapter 50 in GT16 Handy GOT User's Manual (JY997D41201,JY997D41202) Chapter 46 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

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4.7.7 YOKOGAWA temperature controller

For details of the system configuration, refer to "Connection type" in section 4.7.1.

Connectable GOT



Connectable models

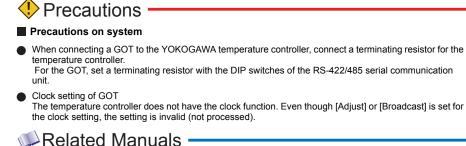
Series	Model	GT	16/GT15			GT11	
Series	wouer	RS-485 RS-422 RS			RS-485	RS-422	RS-232
	UT320						
	UT321						
	UT350						
	UT351						
	UT420						
	UT450						
	UT520						
GREEN series	UT550						
	UT551	\bigcirc (2-wire type ^{*2} /					
	UT750				○ (4-wire type)		
	UP350	4-wire type)			0 1 1 1	l	
	UP351						
	UP550			⊖ ^{*1}			*1
	UP750		×			×	0 '
	UM330						
	UM331						
	UM350						
	UM351						
	US1000						
	UT130						
	UT150	1					
UT-100 series	UT152	\bigcirc (2-wire type ^{*2})			×		
	UT155						
	UP150	1					
UT-2000 series	UT2400	a (1, 1) (1, 1)			a (1. 1. 1		
01-2000 series	UT2800	─ (4-wire type)			 (4-wire type) 		

*1 When the RS-485 interface of the temperature controller is used, use the RS-232/RS-485 converter.

*2 Not available for GT16 Handy.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used				
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)				
GT16		Connections other than the above	All the models (communication units connected to the GOT main unit)				
	Handy GOT	RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD				
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)				
0115		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)				
		RS-232 or RS-422 connections	GT115Q_BD				
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA				
	Handy GOT	RS-232 or RS-422 connections	GT115 HS-Q BD				



- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking of YOKOGAWA temperature controller connection
- · For connection method with Handy GOT



Chapter 49 in GT16 Handy GOT User's Manual

Chapter 8 in GOT1000 Series Connection Manual (Non-

Mitsubishi Products 2) for GT Works3 (SH-080870ENG)

(JY997D41201,JY997D41202) Chapter 48 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

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4.7.8 RKC temperature controller

For details of the system configuration, refer to "Connection type" in section 4.7.1.

Connectable GOT



Connectable models

Series	Series Model		/GT15	GT11			
Jenes	Woden	RS-485	RS-422	RS-232	RS-485	RS-422	RS-232
SR Mini HG	H-PCP-J	○ (2-wire type ^{*4})	0	0	×	0	0
Series	H-PCP-A, CH-PCP-B	×	0	0	×	0	0
SRZ series	Z-TIO, Z-DIO	\bigcirc (2-wire type ^{*4}) ^{*3}	⊖ ^{*2}	O *1	×	⊖ ^{*2}	O ^{*1}
CB series (Products specified	CB100/400/500	(2-wire type ^{*4})	×	⊖ *1	×	×	⊖* 1
for MODBUS [®] communication)	/700/900		~	0			U
FB series	FB100	○ (2-wire type ^{*4})	×	O *1	×	×	O*1
i D selles	FB400/FB900	○ (2-wire type ^{*4})	0	O *1	×	0	O *1
RB series	RB100/RB400/RB900	(2-wire type ^{*4})	×	O *1	×	×	1

*1 When the RS-485 interface of the temperature controller is used, use the RS-232/RS-485 converter.

*2 Use Communication Extension Module (Z-COM).

*3 Use Communication Extension Module (Z-COM) according to the system configuration.

*4 Not available for GT16 Handy.

The GOT model to be used differs depending on the connection type.

	Series Connection type		GOT model to be used					
		RS-232, RS-422/485 or Ethernet connection	All the models (built-in interfaces of the GOT main unit)					
GT16		Connections other than the	All the models (communication units connected to the GOT main unit)					
		above						
Handy GOT		RS-232, RS-422/485 or Ethernet connection	GT1665HS-VTBD					
GT15		RS-232 connection	All the models (built-in interfaces of the GOT main unit)					
0115		Connections other than RS-232	All the models (connected a communication unit to the GOT main unit)					
		RS-232 or RS-422 connections	GT115Q_BD					
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA					
	Handy GOT	RS-232 or RS-422 connections	GT115 HS-Q BD					

Precautions

Precautions on system

Clock setting of GOT The temperature controller does not have the clock function. Even though [Adjust] or [Broadcast] is set for the clock setting, the setting is invalid (not processed).

Precautions on setup

When using RS-422 conversion unit Set [Communication Setting] in the utility so that the 5VDC power is supplied to the RS-422 conversion unit via the RS-232 interface of the GOT.

Polar difference between GOT and RKC product For signal names, poles A and B are reversed between a GOT and an RKC product.

WRelated Manuals —		1
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of RKC temperature controller connection 	Chapter 10 in GOT1000 Series Connection Manual (Non-Mitsubishi Products 2) for GT Works3 (SH- 080870ENG)	ц
For connection method with Handy GOT	Chapter 51 in GT16 Handy GOT User's Manual (JY997D41201,JY997D41202) Chapter 49 in GT11 Handy GOT User's Manual (JY997D20101, JY997D20102)	201

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

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4.8 Other Devices

4.8.1 Sound output

and others For details of the connection, refer to the corresponding system configuration of each	GOT		Option unit	Target device
	Programmable controller and others For details of the connection, refer to the corresponding system configuration of each connection.	GT16/GT15		Speaker with amplifier ^{*1} #
For connectable speaker with amplifier types, refer to the following TECHNICAL BULLETIN. List of valid devices applicable for GOT1000series (T10-0039)				

Precautions

Other precautions

Setting of sound output function with GT Designer3 Set the sound file with GT Designer3 before connecting a speaker with amplifier to the GOT.

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions
- \triangleright

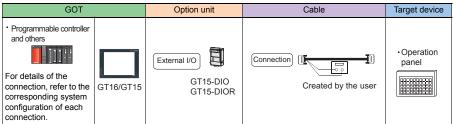
Chapter 6 in GOT1000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3 (SH-080871ENG)

- For outlined procedure and checking of the sound output
- For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

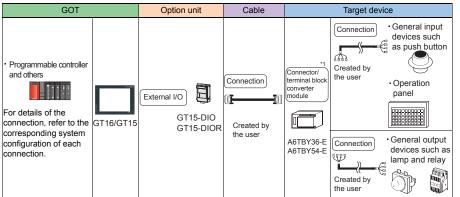
4.8.2 External I/O

System configuration -

For input only



For input and output



*1: When the connector/terminal block converter module is used, the input points are up to 64 points.

Precautions

Other precautions

Setting of external I/O function with GT Designer3 Set the operation panel with GT Designer3 before connecting an external I/O device.

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking of external I/O
- * For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

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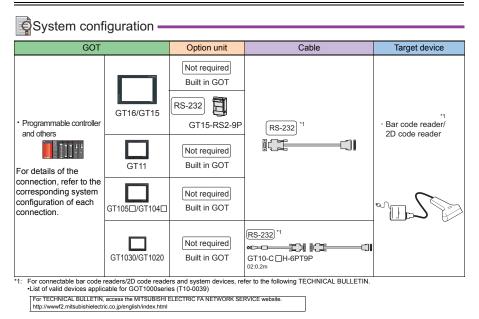
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Chapter 7 in GOT1000 Series Connection Manual

GT Works3 (SH-080871ENG)

(Microcomputer, MODBUS Products, Peripherals) for

4.8.3 Bar code reader connection



Precautions

Other precautions

 Setting of bar code function with GT Designer3 Set the bar code function and system information with GT Designer3 before connecting a bar code reader.

Controller setting

When using the barcode reader, which requires the power supply from the GOT, set Channel No. 8 using the standard interface.

With Channels No. 5 to 7 of the extension interface, the power cannot be supplied.

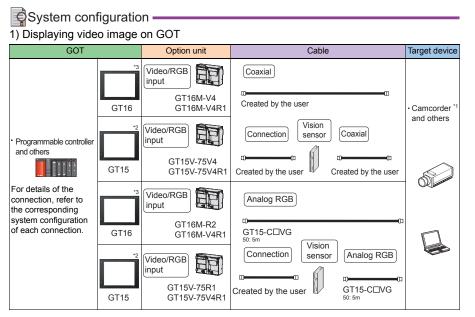
Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions

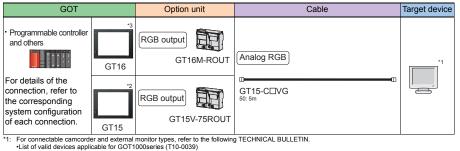


Chapter 9 in GOT1000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3 (SH-080871ENG)

- For outlined procedure and checking of bar code reader connection
- * For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.



2) Displaying GOT screen on external monitor



For TECHNICAL BULLETIN, access the MITSUBISHI ELECTRIC FA NETWORK SERVICE website. http://wwwf2.mitsubishielectric.co.jp/english/index.html

*2: Only GT1585V and GT1575V are supported.

*3: Not available for GT16 -VN.

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Precautions on setup

• Connecting to personal computer When connecting a personal computer, ground the ground cable of the personal computer.

Other precautions

- Power supply of camcorder Depending on the camcorder type, a programmable controller and GOT may malfunction due to noise because of the power supply cable for a camcorder. In this case, attach the following line filter to the power supply line. Recommended line filter: ZHC2203-11 manufactured by TDK Corporation (or equivalent products)
- Power supply of vision sensor
 When using a camcorder via the vision sensor, a power supply unit of the vision sensor is required according to the vision sensor type to be used.
- Selecting output of video signal The video signal can be output from both a power supply unit of a camcorder and a camcorder according to the camcorder and system to be used. When video signals are output from both the camcorder and power supply unit, the voltage levels for some of the signals are reduced and images may not normally be displayed. In this case, output signals
- Powering on camcorder Power on the camcorder simultaneously with a GOT.

Related Manuals

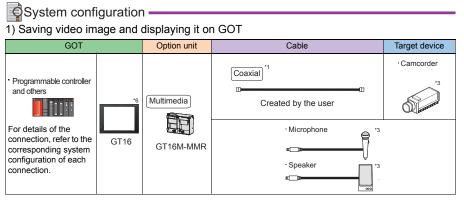
- For details of system configuration and connection cable
- · For precautions and restrictions

only from the camcorder.

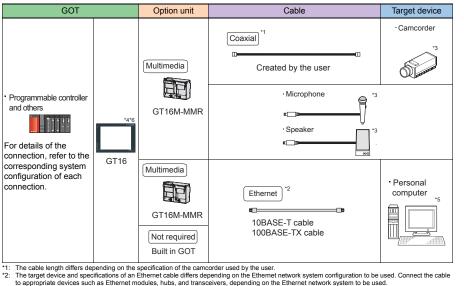


Chapter 11 in GOT1000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3 (SH-080871ENG)

- For outlined procedure and checking of video/ RGB connection
 - For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.



Sending video image to personal computer



*3: For connectable microphone and speaker types, refer to the following TECHNICAL BULLETIN. List of valid devices applicable for GOT1000series (T10-0039) For TECHNICAL BULLETIN, access the MITSUBISHI ELECTRIC FA NETWORK SERVICE website http://wwwf2.mitsubishielectric.co.jp/english/index.html

*4: When connecting GT16 (Excluding GT16 Handy) of function version A to an equipment that meets the 10BASE (-T/2/5) standard, use a switching hub and operate in an environment where 10Mbps and 100Mbps can be mixed. For how to check the function version, refer to the following. GT16 User's Manual (Hardware)

*5: Install the multimedia interaction tool before use. For details of the multimedia interaction tool, refer to the following manual. GT Designer3 Version1 Screen Design Manual (Functions)

*6: Not available for GT16 _ _ -VN.

287 4.8 Other Devices 4.8.5 Multimedia connection

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Other precautions

- When the multimedia function is used The multimedia function and the video/RGB function are installed exclusively. Select either of them to use.
- CF card on the multimedia unit
 For the CF card that can be inserted into the multimedia unit, formatting in FAT32 is recommended.
 If the CF card formatted in FAT16 is inserted, the following phenomena may occur.
 - · Reading, writing or saving of movie files takes time.
 - When a movie file is played, the movie momentarily looks like as if it stopped.
- When connecting GT16 of function version A (Excluding GT16 Handy) to an equipment that meets the 10BASE (-T/2/5) standard, use a switching hub and operate in an environment where 10Mbps and 100Mbps can be mixed.

For how to check the function version, refer to the following.

F GT16 User's Manual (Hardware)

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking of multimedia connection



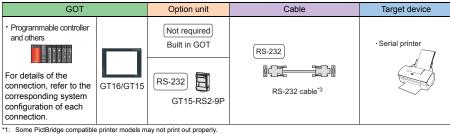
Chapter 13 in GOT1000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3 (SH-080871ENG)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

4.8.6 Printer connection

System configuration -1) When connecting to PictBridge compatible printer GOT Option unit Cable Target device Programmable controller and others · PictBridge compatible printer *1 USB Printer 10 For details of the GT15-PRN GT09-C30USB-5P*2 connection, refer to the GT16/GT15 corresponding system configuration of each connection.

2) When connecting to serial printer



For connectable printer types, refer to the following TECHNICAL BULLETIN. List of valid devices applicable for GOT1000series (T10-0039)

For TECHNICAL BULLETIN, access the MITSUBISHI ELECTRIC FA NETWORK SERVICE website.

http://wwwf2.mitsubishielectric.co.jp/english/index.html

*2: Use the printer connection cable supplied with the printer unit.

*3: The RS-232 cable differs depending on the specification of the printer to be used. Use the RS-232 cable that is compatible with the printer to be used.

Precautions

Other precautions

Connecting or disconnecting USB cable during printing When the USB cable is disconnected during printing, some printers hang depending on the PictBridge compatible printer model.

In this case, turn on the main power of the printer again and reboot the printer.

When printer is disabled

During initialization at power-on of a PictBridge compatible printer, some models of the printers notify a GOT that the printer is enabled.

For the printer models, when printing is started with the GOT, an error may occur in the printer, resulting in printing failures.

When printing is disabled, restart the printer with the following procedure.

- 1) Disconnect the USB cable from the printer.
- 2) Turn off the printer.
- 3) Disconnect the power cable of the printer and completely stop the printer.
- 4) Connect the power cable to the printer.
- Turn on the printer and wait until initialization on the printer is completed. 5)
- 6) Connect the USB cable to the printer.

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Related Manuals -

- · For details of system configuration and connection cable
- · For precautions and restrictions

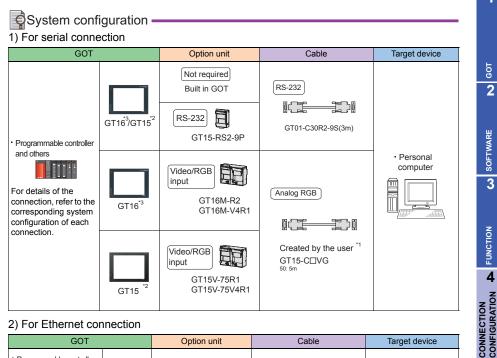


Chapter 12 in GOT1000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3 (SH-080871ENG)

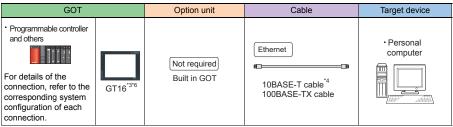
· For outlined procedure and checking of printer connection



For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.



2) For Ethernet connection



*1: The cable length differs depending on the specification of the personal computer to be used.

- Use the cable that is compatible with the personal computer to be used.
- *2: Only GT1585V and GT1575V are available.
- *3: Not available for GT16

 -VN.

*4: The target device of a twisted pair cable differs depending on the Ethernet network system configuration to be used.

Connect the cable to appropriate devices such as Ethernet modules, hubs, and transceivers, depending on the Ethernet network system to be used. Use cables, connectors, and hubs that meet the IEEE802.3 10BASE-T/100BASE-TX standards.

- *5: A straight cable is available.
- A cross cable is available for connecting the personal computer and GOT using the Ethernet cable directly.
- *6: When connecting GT16 (Excluding GT16 Handy) of function version A to an equipment that meets the 10BASE (-T/2/5) standard, use a switching hub and operate in an environment where 10Mbps and 100Mbps can be mixed. For how to check the function version, refer to the following.

·GT16 User's Manual (Hardware)

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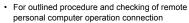
Other precautions

Personal computer side setting Before using the remote personal computer operation function, install the remote personal computer operation driver on the personal computer. After the driver installation, check that the driver is correctly installed.

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions

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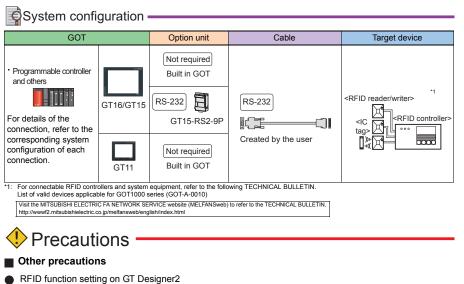




Chapter 10 in GOT1000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3 (SH-080871ENG)

For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

4.8.8 RFID connection



Set the RFID function and system information with GT Designer2 before connecting a RFID controller.

Controller setting

(1) In case of external authentication

When using external authentication with the RFID controller, set Channel No. 8 using the standard interface.

When using Channels No. 5 to 7 of the extension interface for the RFID connection, external authentication cannot be used.

For details of the external authentication, refer to the following manual.

• GT Designer2 Version Screen Design Manual

(2) When the power supply is required

When using the RFID controller, which requires the power supply from the GOT, set Channel No. 8 using the standard interface.

With Channels No. 5 to 7 of the extension interface, the power cannot be supplied.

Communication in multiple RFID readers/writers connection

When connecting multiple RFID readers/writers, some controllers may communicate with each RFID reader/writer.

For communicating the RFID controller with the each RFID reader/writer, set an interlock so that the RFID controller does not communicate with RFID readers/writers until the executing communication is completed.

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking of RFID connection



Chapter 14 in GOT1000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3 (SH-080871ENG)

For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

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Precautions on setup

- (1) When installing communication unit or connecting cable Shut off all phases of the GOT power.
- (2) When using RS-422 conversion unit

Set [Communication Setting] in the utility so that the 5VDC power is supplied to the RS-422 conversion unit via the RS-232 interface of the GOT.

5. COMPLIANCE WITH OVERSEAS STANDARDS

This chapter describes the compliance with overseas standards for the GOT, communication interface, and option.

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5. COMPLIANCE WITH OVERSEAS STANDARDS

The GOT is compliant with the following safety standards, including UL standard. For the latest compliance with overseas standards, access the MITSUBISHI ELECTRIC FA NETWORK SERVICE website.

http://wwwf2.mitsubishielectric.co.jp/english/index.html



EMC: EMC Directive LVD: Low Voltage Directive

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GT1150-QLBDA O <t< td=""><td></td><th></th><th></th><td>~</td><td>~</td><td></td><td>housed</td><td>hanned</td><td>hanned</td><td></td><td>hanned a</td><td>kunnal</td></t<>				~	~		housed	hanned	hanned		hanned a	kunnal
GT1150-QLBD O O - O O O GT1150-QLBD O O - O O O O GT1150-QLBD O O O - O O O O GT1050-QBBD O O - O O O O O GT10 GT1050-QBBD O O - O <td< td=""><td></td><th></th><th></th><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td></td<>							-					
GT1150HS-QLBD O - <												
GT1150HS-QLBD O - <			GT1150-QLBD	0	0	-						
GT1055-QSBD 0 0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			GT1150HS-QLBD	0	0	-						
GT1050-QBBD O - C - C - C - C - C - C - C - C - C -			GT1055-QSBD		Ó	-						
GT1045-QSBD 0 0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					-							
		GT10		_	_	-						
				-	-				<u> </u>			
			GT 1040-QBBD		0							

	Broduct name	Model	UL/cUL		E		_	Shipping	standard		_	1.	
	Product name	Model	UL/CUL	EMC	LVD	ABS	BV	DNV	LR	NK	RINA		1
		GT1030-LBD	0	0	-								-
1		GT1030-LBDW	0	0	-								
1		GT1030-LBD2	0	0	-								
1		GT1030-LBDW2	0	0	-								
		GT1030-LBL	0	0	-								
		GT1030-LBLW	0	0	-								
		GT1030-LWD	Õ	Õ	-								
		GT1030-LWDW	Ō	Ō	-								E .
		GT1030-LWD2	ŏ	Õ	-								GOT
		GT1030-LWDW2	ŏ	Õ	-								
		GT1030-LWL	ŏ	ŏ	-								2
GOT main		GT1030-LWLW	ŏ	ŏ	-								
unit	GT10	GT1020-LBD	ŏ	ŏ	-								
unic		GT1020-LBDW	ŏ	0	-								
		GT1020-LBD2	ŏ	ŏ	-							-	
		GT1020-LBDW2	ŏ		-							-	ž
		GT1020-LBL		0	-								AF
		GT1020-LBL	0	0									j≩ _
			0	0	-								<u> </u>
		GT1020-LWD GT1020-LWDW	0	0	-							4	SOFTWARE
			0	0	-								
		GT1020-LWD2	0	0	-								3
		GT1020-LWDW2	0	0	-								•
		GT1020-LWL	0	0	-								
		GT1020-LWLW	0	0	-								
		GT15-QBUS	0	0	-	0	0	0	0	0	0		
		GT15-QBUS2	0	0	-	0	0	0	0	0	0		-
		GT15-ABUS	0	0	-	0	0	0	0	0	0		FUNCTION
	Bus connection unit	GT15-ABUS2	0	0	-	0	0	0	0	0	0		Ē
		GT15-75QBUSL	0	0	-	0	0	0	0	0	0	1	¥
		GT15-75QBUS2L	0	0	-	0	0	0	0	0	0	1	Ð
		GT15-75ABUSL	Ō	Ō	-	Ō	Ō	Ō	Ō	Ō	Ō		
		GT15-75ABUS2L	Õ	Õ	-	Õ	Õ	Õ	Õ	Õ	Õ		4
		GT15-RS2-9P	Ō	Ō	-	Ō	Ō	Ō	Ō	Ō	Ō		
	Serial communication unit		ŏ	ŏ	-	Ő	Ő	Õ	Õ	Õ	Ő		
		GT15-RS4-TE	ŏ	ŏ	-	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ		R
		GT15-RS2T4-9P	ŏ	ŏ	-	Ő	Ŏ	ŏ	Ő	ŏ	Ŏ		CONNECTION CONFIGURATION
	RS-422 conversion unit	GT15-RS2T4-25P	ŏ	ŏ	-	ŏ	Ö	Ö	ŏ	0	Ö		CONFIGURATI
Communi-	Ethernet communication	0110110211201		0				0	0	0		-	55
cation unit		GT15-J71E71-100	0	0	-	0	0	0	0	0	0		Щ Ю́
	unit		_			_	_		_	_	_		źż
	MELSECNET/H	GT15-J71LP23-25	0	0	-	0	0	0	0	0	0		88
	communication unit	GT15-J71BR13	0	0	-	×	×	×	×	×	×		
	CC-Link communication	0745 1040740		0									5
	unit	GT15-J61BT13	0	0	-	×	×	×	×	×	×		•
1	CC-Link IE controller	1	H									1	
		GT15-J71GP23-SX		_									
1	network communication	GT 10-J/ TGP23-SX	0	0	-	0	0	0	0	0	0		ΰ.,
	unit												AS AS
1	CC-Link interface unit	GT11H-CCL	×	×	-	×	×	×	×	×	×		COMPLIANCE WITH OVERSEAS
	CO-Link Interface unit	GT11HS-CCL	×	×	-	×	×	×	×	×	×	1	⊒_%
	Serial multi-drop	0704 804 14	_									1	돌픈竝
	connection unit	GT01-RS4-M	0	0	-								있 둘 중.
	Printer unit	GT15-PRN	0	0	-	0	0	0	0	0	0		
1	Multimedia unit	GT16M-MMR	0	0	-	×	×	×	×	×	×	1	6
	Matancaia ant	GT15V-75V4	-	-	-							-	U
	Video input unit	GT16M-V4	0	0	-	×	×	×	×	×	×		
		GT15V-75R1			-	×		×		×	×		
	RGB input unit		0	0	-		×		×			4	0 L
		GT16M-R2	0	0		×	×	×	×	×	×	4	£` wi ₹
	Video/RGB input unit	GT15V-75V4R1	0	0	-	×	×	×	×	×	×		ы ч z
Option unit		GT16M-V4R1	0	0	-	×	×	×	×	×	×		EQUIPMENT, SOFTWARE, AND MANUAI
1	RGB output unit	GT15V-75ROUT	0	0	-	×	×	×	×	×	×		556
1		GT16M-ROUT	0	0	-	×	×	×	×	×	×		0 0 Z
1	CF card unit	GT15-CFCD	0	0	-	0	0	0	0	0	0		mω∢
	CF card extension unit	GT15-CFEX-C08SET	0	0	-	0	0	0	0	0	0		7
1	Sound output unit	GT15-SOUT	0	0	-	0	0	0	0	0	0		
1	Extornal I/Oit	GT15-DIO	0	0	-	0	0	0	0	0	0		
	External I/O unit	GT15-DIOR	0	0	-	0	0	0	0	0	0		
L						ام ما ا		Net					

	Product name	Model	UL/cUL		E				standard		
<u> </u>				EMC	LVD	ABS	BV	DNV	LR	NK	RINA
		GT16-90XLTT	*2 *2	*2 *2	*2	\bigtriangleup	\bigtriangleup		\bigtriangleup	\bigtriangleup	\triangle
		GT16-80SLTT	*2		*2 *2				\bigtriangleup	\triangle	\triangle
		GT16-70SLTT	*2	*2 *2	*2 *2				\triangle		
		GT16-70VLTT GT16-70VLTN	*2	*2	*2				\triangle		
		GT16-60SLTT	*2	*2	*2				\triangle		
		GT16-60VLTT	*2	*2	*2				\triangle	<u> </u>	
	Backlight	GT16-60VLTN	*2	*2	*2						
		GT15-90XLTT	*2	*2	*2	*2	*2	*2	*2	*2	*2
		GT15-80SLTT	*2	*2	*2	*2	*2	*2	*2	*2	*2
		GT15-70SLTT	*2	*2	*2	*2	*2	*2	*2	*2	*2
		GT15-70VLTT	*2	*2	*2	*2	*2	*2	*2	*2	*2
		GT15-70VLTN	*2	*2	*2	*2	*2	*2	*2	*2	*2
		GT15-60VLTT	*2	*2	*2	*2	*2	*2	*2	*2	*2
		GT15-60VLTN	*2	*2	*2	*2	*2	*2	*2	*2	*2
		GT16-MESB	0	0	-	\square	\bigtriangleup	\square	\bigtriangleup	\triangle	\bigtriangleup
		GT15-FNB	0	0	-	0	0	0	0	0	0
		GT15-QFNB	0	0	-	0	0	0	0	0	0
	Option function board	GT15-QFNB16M	0	0	-	0	0	0	0	0	0
		GT15-QFNB32M	0	0	-	0	0	0	0	0	0
		GT15-QFNB48M	0	0	-	0	0	0	0	0	0
		GT11-50FNB	×	0	-						
	CT10 memory laster	GT15-MESB48M	0	0	-	0	0	0	0	0	0
	GT10 memory loader	GT10-LDR	×	<u>1</u>	-	-	-	-	-	-	-
	GT10 memory board	GT10-50FMB GT16-90PSCB	×	0	-	-	-	-	-	-	-
			0	-	-	-	-	-	-	-	-
		GT16-90PSGB	0	-	-	-	-	-	-		-
		GT16-90PSCW GT16-90PSGW	0	-	-	-	-	-	-	-	-
		GT16-80PSCB	0	-	-	-	-	-	-		-
		GT16-80PSGB		-	-	-	-	-	-	-	-
		GT16-80PSCW	0	-	-	-	-	-	-	-	-
		GT16-80PSGW		-	-	-	-	-	-	-	-
Option unit		GT16-70PSCB	0	-	-	-	-	-	-		-
		GT16-70PSGB	0	-	-	-	-	-	-		-
		GT16-70PSCW	0	-	-	-	_	-	-	-	-
		GT16-70PSGW	0	-	-	-	-	-	-		-
		GT16-60PSCB	ŏ	_	-	-	_	_	-	-	-
		GT16-60PSGB	ŏ	-	-	-	_	-	-	-	-
		GT16-60PSCW	ŏ	-	-	-	-	_	-	-	-
		GT16-60PSGW	0	-	-	-	-	-	-	-	
		GT15-90PSCB	ŏ	-	-	-	-	-	-	-	-
		GT15-90PSGB	ŏ	-	-	-	-	-	-	-	-
		GT15-90PSCW	ŏ	-	-	-	-	-	-	-	-
		GT15-90PSGW	ŏ	-	-	-	-	-	-	-	-
	Protective sheet	GT15-80PSCB	Ö	-	-	-	-	-	-	-	-
		GT15-80PSGB	0	-	-	-	-	-	-	-	-
		GT15-80PSCW	ŏ	-	-	-	-	-	-	-	-
		GT15-80PSGW	ŏ	-	-	-	-	-	-	-	-
		GT15-70PSCB	Ŏ	-	-	-	-	-	-	-	-
		GT15-70PSGB	ŏ	-	-	-	-	-	-	-	-
		GT15-70PSCW	Õ	-	-	-	-	-	-	-	-
		GT15-70PSGW	Ō	-	-	-	-	-	-	-	-
		GT15-60PSCB	Ō	-	-	-	-	-	-	-	-
		GT15-60PSGB	0	-	-	-	-	-	-	-	-
		GT15-60PSCW	0	-	-	-	-	-	-	-	-
		GT15-60PSGW	0	-	-	-	-	-	-	-	-
		GT15-50PSCB	0	-	-	-	-	-	-	-	-
		GT15-50PSGB	0	-	-	-	-	-	-	-	-
		GT15-50PSCW	0	-	-	-	-	-	-	-	-
		GT15-50PSGW	0	-	-	-	-	-	-	-	-
		GT11-50PSCB	×	-	-	-	-	-	-	-	-
		GT11-50PSGB	×	-	-	-	-	-	-	-	-
		GT11-50PSCW	×	-	-	-	-	-	-	-	-
		GT11-50PSGW	×	-	-	-	-	-	-	-	-
		GT11H-50PSC	×	-	-	-	-	-	-	-	-
		O: Compliant	Caar	. to be ee	maliant		er review	V. Net	complian		t applied

○: Compliant △: Soon to be compliant □: Under review ×: Not compliant -: Not applied

*1 This product will be switched after the stock of versions not compliant with CE and UL/cUL is consumed. Therefore, please consult your local *2 Compliant with the standard with the product built in the GOT.

	Broduct name	Model	UL/cUL	C	E		_	Shipping	standard	1	_	
	Product name		UL/CUL	EMC	LVD	ABS	BV	DNV	LR	NK	RINA	1
		GT10-50PSCB	×	-	-	-	-	-	-	-	-	
		GT10-50PSGB	×	-	-	-	-	-	-	-	-	
		GT10-50PSCW	×	-	-	-	-	-	-	-	-	
		GT10-50PSGW	×	-	-	-	-	-	-	-	-	
		GT10-40PSCB	×	-	-	-	-	-	-	-	-	
		GT10-40PSGB	×	-	-	-	-	-	-	-	-	
		GT10-40PSCW	×	-	-	-	-	-	-	-	-	
	Protective sheet	GT10-40PSGW	×	-	-	-	-	-	-	-	-	GOT
	Protective sneet	GT10-30PSCB	×	-	-	-	-	-	-	-	-	Ō
		GT10-30PSGB	×	-	-	-	-	-	-	-	-	2
		GT10-30PSCW	×	-	-	-	-	-	-	-	-	
		GT10-30PSGW	×	-	-	-	-	-	-	-	-	
		GT10-20PSCB	×	-	-	-	-	-	-	-	-	
		GT10-20PSGB	×	-	-	-	-	-	-	-	-	
		GT10-20PSCW	×	-	-	-	-	-	-	-	-	
		GT10-20PSGW	×	-	-	-	-	-	-	-	-	22
	LIOD i	GT16-UCOV	*2	-	-							SOFTWARE
	USB environmental	GT15-UCOV	*2	-	-	*2	*2	*2	*2	*2	*2	
	protection cover	GT11-50UCOV	*2	-	-		_		-			5
		GT05-90PCO	×	-	-	-	-	-	-	-	-	٥ ٥
		GT05-80PCO	×	-	-	-	-	-	-	-	-	3
	Protective cover for oil	GT05-70PCO	×	-	-	-	-	-	-	-	-	<u>່</u> ວ
		GT05-60PCO	×	-	-	-	_	-	-	_	-	
		GT05-50PCO	×	-	-	-	-	-	-	-	-	
	Emergency stop switch	0100 001 00	- ^ -	-	-		_	_	-		-	
		GT11H-50ESCOV	×	-	-	-	-	-	-	-	-	
Option unit	guard	OTIC COOTING										Z
	Stand	GT15-90STAND	-	-	-	-	-	-	-	-	-	
		GT15-80STAND GT15-70STAND	-	-	-	-	-	-	-	-	-	ý,
		GT15-70STAND GT15-50STAND	-	-	-	-	-	-	-	-	-	FUNCTION
		GT05-50STAND	-	-	-	-	-	-	-	-	-	<u> </u>
		GT05-MEM-16MC	0	0	-	0	0	0	0	0	0	4
		GT05-MEM-32MC	0	0	-	0	0	0	0	0	0	
		GT05-MEM-64MC	0	Ö	-	0	0	0	Ő	0	ŏ	
		GT05-MEM-128MC	-	-	-	-	-	-	-	-	-	Z
		GT05-MEM-256MC	0	0	-	0	0	0	0	0	0	zĔ
	CF card	GT05-MEM-512MC	0	0	-	0	0	0	0	0	0	⊇∦
	CF calu	GT05-MEM-1GC	~	<u> </u>	-	~	~	<u> </u>	~	~	~	55
			0	0		0	0	0	0	0	0	₩ [©]
		GT05-MEM-2GC	0	0	-	0	0	0	0	0	0	źż
		GT05-MEM-4GC	0	0	-	0	0	0	0	0	0	CONNECTION CONFIGURATION
		GT05-MEM-8GC	0	0	-	0	0	0	0	0	0	
		GT05-MEM-16GC	0	0	-	0	0	0	0	0	0	5
	Memory card adaptor	GT05-MEM-ADPC	0	-	-	-	-	-	-	-	-	
		GT15-70ATT-98	-	-	-	-	-	-	-	-	-	1
		GT15-70ATT-87	-	-	-	-	-	-	-	-	-	ш
		GT15-60ATT-97	-	-	-	-	-	-	-	-	-	COMPLIANCE MITH DVERSEAS
	Attachment	GT15-60ATT-96	-	-	-	-	-	-	-	-	-	COMPLIAN WITH DVERSEAS
		GT15-60ATT-87	-	-	-	-	-	-	-	-	-	1 1
		GT15-60ATT-77 GT15-50ATT-98W	-	-	-	-	-	-	-	-	-	E - S
			-	-	-	-	-	-	-	-		Ste
	Battery	GT15-50ATT-85 GT15-BAT	1 -	*2	- *2	-	-	-	-	-	-	822
1	Dattery	GI 13-BAI	0	² 2	~2	0	0	0	0	0	0	020

 \bigcirc : Compliant \triangle : Soon to be compliant \square : Under review \times : Not compliant \neg : Not applied

*2 Compliant with the standard with the product built in the GOT.

6. EQUIPMENT, SOFTWARE, AND MANUALS

This chapter describes equipment, software, and manuals related to the GOT.

6. EQUIPMENT, SOFTWARE, AND MANUALS

Main unit model name

GT	16	95M	- 🛛	КΤΒΑ	Г													
]]					
	Code	Screen size	Code	Display colors	Code	Mounting type	Code	Resolution	Code	Display d	levice	Code Po	ower supp	ly C			cation inter	
	9	15"	5	256 colors or more	V C	ompatible with video/RGB	~	XGA		TFT co	olor	A 100	to 240V/	AC	-1 With	built-in bus cor	nection interface	a for QCPU
	8	12.1"	2	16 colors	None	Panel mount type	^	(1024×768 dots)	т	(high brigh	itness,	D	24VDC		(Q)	mode)/motion	controller CPU (C	2 series)
	7	10.4"	0	Monochrome	HS	Handy type	6	SVGA		wide viewing	g angle)	L	5VDC		A ^{*1} Wit	h built-in bus	connection inter	rface for
	6	8.4", 6.5"			м	Compatible with		(800×600 dots)	N	TFT co	olor				QnAl	ACPU/motion	controller CPU	I (A series)
	5	5.7"			191	nultimedia & Video/RGB	V	VGA	S	STN co	olor				2*2	With bu	ilt-in RS-2	32
	4	4.7*						(640×480 dots)	в	STN monor	chrome			No	ne"2	With bu	ilt-in RS-42	22
	3	4.5"					0	QVGA		(blue/wh	hite)			*1 :			and GT115	□-Q □
	2	3.7"						(320×240 dots)	L	STN monor	chrome			*2	BDA or GT10 (
GT16	A		Sector and	to differentiana di ante	for the	and an dimension	None	(288×96 dots)		_						_		
						ernet and multimedia	NONE	(160×64 dots)		Co	de Maii	n unit frame	Code	GT10 b				
GT15	71110			ons from network							В	Black	W	White b				
GT11				c functions for st		e use				1	W	White	None	Green b	ackligh	ht		
GT10	Packe	ed with the fu	nctiona	lity necessary fo	a HMI													

For inquiries relating to products which conform to UL, cUL, and CE directives and shipping directives, please contact your local sales office.

GOT main units

Screen size Display colors Power Memory Display Model name Remarks [resolution] (number of colors) supply size GT1695M-XTBA GT1695 65536 colors 15MB Compatible with [1024 ×768 dots] GT1695M-XTBD (high brightness de viewing angle 24\/DC ultimedia & Video/RGB 12.1" SVGA TFT color LCD 100-240VAC GT1685M-STBA GT1685M-STBD Compatible with GT1685 65536 colors 15MB [800×600 dots] 24VDC (high brightness, wide viewing angle multimedia & Video/RGB GT1675M-STBA 10.4" SVGA color LCD 100-240VAC Compatible wit 65536 colors 15MB GT1675M-STBD [800×600 dots] (high brightness, wide view 24VDC multimedia & Video/RGB GT1675M-VTBA TET color I CD 100-240VAC Compatible with 65536 colors 15MB GT1675M-VTBD multimedia & Video/RGB (high brightness, wide viewing angle 24VDC GT1670 GT1675-VNBA 10.4" VGA 100-240VAC TET color I CD 4096 colors 11MB [640×480 dots] _ GT1675-VNBD 24VDC GT16 GT1672-VNBA TFT color LCD 16 colors 11MB GT1672-VNBD 24VDC 8.4" SVGA TFT color LCD Compatible with GT1665M-STBA 100-240VAC 65536 colors 15MB GT1665M-STBD [800×600 dots] (high brightness, w TFT color LCD 24VD0 nultimedia & Video/RGB GT1665M-VTBA 100-240VAC Compatible with GT166□ 65536 colors 15MB GT1665M-VTBD 8.4" VGA (high brightness wide viewi 24VDC timedia & Video/RGB [640 ×480 dots] GT1662-VNBA 100-240VAC TFT color LCD 16 colors 11MB GT1662-VNBD 24VDC 6.5" VGA TFT color LCD Handy GT1665HS-VTBD 65536 colors 24VDC 15MB GOT [640×480 dots] (high brightness, wide viewing angle GT1595-XTBA 15" XGA TFT color LCD 100-240VAC GT1595 65536 colors 9MB (high brightness, wide viewing angle GT1595-XTBD [1024×768 dots] 24VDC 100-240VAC TFT color LCD GT1585V-STBA Compatible with Video/RGB 12.1" SVGA GT1585V-STBD (high brightness, wide viewing angle) TFT color LCD 24VDC 65536 colors GT1585 9MB GT1585-STBA [800×600 dots] 100-240VAC GT1585-STRD (high brightness, wide viewing angle 24VDC GT1575V-STBA TFT color LCD 100-240VAC Compatible with Video/RGB GT1575V-STBD 24VDC 10.4" SVGA (high brightness, wide viewing angle) 65536 colors 9MB GT1575-STBA GT1575-STBD [800×600 dots] TET color I CD 100-240VAC (high brightness, wide viewing angle) TFT color LCD 24VD0 GT1575-VTBA 100-240VAC 65536 colors 9MB GT1570 GT1575-VTBD (high brightness, wide viewing angle GT15 GT1575-VNBA 10.4" VGA 100-240VAC 256 colors 5MB TFT color LCD GT1575-VNBD [640×480 dots] 24VDC GT1572-VNBA 100-240VAC 16 colors 5MB TFT color LCD GT1572-VNBD 24VDC TET color I CD GT1565-VTBA 100-240VAC 65536 colors 9MB 8.4" VGA GT1565-VTBD (high brightness, wide viewing angle 24VDC GT156□ GT1562-VNBA [640×480 dots] 100-240VAC 16 colors TET color I CD 5MB GT1562-VNRD 24VDC GT1555-VTBD 5.7" VGA [640×480 dots] TET color I CD 65536 colors GT1555-QTBD (high brightness, wide viewing angle 24VDC GT155 9MB 5.7" OVGA GT1555-QSBD STN color LCD 4096 colors [320 x 240 dots] GT1550-OLBD STN monochrome I CD ome (black/white) 16 gray scales GT1155-QTBD TFT color LCD Dedicated to Q bus connection GT1155-QTBDQ GT1155-QTBDA Dedicated to A bus connection GT1155 256 colors GT1155-OSBD STN color LCD GT1155-QSBDQ Dedicated to Q bus connection 5.7" QVGA GT1155-QSBDA GT11 24VDC змв Dedicated to A bus connection [320×240 dots] GT1150-QLBD GT1150 GT1150-QLBDQ STN monochrome I CD Monochrome (black/white) 16 grav scale Dedicated to Q bus connection GT1150-QLBDA Dedicated to A bus connection STN color LCD GT1155HS-QSBD 256 colors Handy GOT GT1150HS-OLBD STN monochrome LCD me (black/white) 16 gray sca

GOT main units

	Mo	odel name	Screen size [resolution]	Display			ay colors r of colors)	Power supply	Memory size	Remarks
	GT105	GT1055-QSBD	5.7" QVGA	STN color LCD		256 color	s	24VDC	3MB	
	611050	GT1050-QBBD	[320×240 dots]	STN monochrome LCD		Monochrome (b	ue/white) 16 gray scales	24000	JIVID	-
	GT104ロ	GT1045-QSBD	4.7" QVGA	STN color LCD		256 color		24VDC	3MB	_
	011040	GT1040-QBBD	[320×240 dots]	STN monochrome LCD		Monochrome (b	ueiwhite) 16 gray scales	24000	JIVID	
		GT1030-LBD			Frame color		3-color LED	24VDC	1.5MB	Dedicated to RS-422 connection
		GT1030-LBD2					(green, orange, red)	24000	1.51410	Dedicated to RS-232 connection
		GT1030-LBL	4.5"	STN monochrome I CD	Black	Monochrome	(green, orange, red)	5VDC	1.5MB	Dedicated to RS-422FX connection
		GT1030-LBDW	[288×96 dots]		Diack	(black/white)	3-color LED			Dedicated to RS-422 connection
		GT1030-LBDW2	1					24VDC	1.5MB	Dedicated to RS-232 connection
	GT1030	GT1030-LBLW					(white, pink, red)	5VDC	1.5MB	Dedicated to RS-422FX connection
		GT1030-LWD					3-color LED	24VDC	1.5MB	Dedicated to RS-422 connection
		GT1030-LWD2					(green, orange, red)	24000	1.5WD	Dedicated to RS-232 connection
		GT1030-LWL	4.5"	STN monochrome I CD	White	Monochrome	(green, orange, red)	5VDC	1.5MB	Dedicated to RS-422FX connection
GT10		GT1030-LWDW	[288×96 dots]	STN Honochrome LCD	VVIILE	(black/white)	3-color LED	24VDC	1.5MB	Dedicated to RS-422 connection
0110		GT1030-LWDW2					(white, pink, red)		1.JIVID	Dedicated to RS-232 connection
		GT1030-LWLW					(5VDC	1.5MB	Dedicated to RS-422FX connection
		GT1020-LBD					3-color LED	24VDC		Dedicated to RS-422 connection
		GT1020-LBD2					(green, orange, red)			Dedicated to RS-232 connection
		GT1020-LBL	3.7"	STN monochrome I CD	Black	Monochrome	(green, orange, reu)	5VDC	512KB	Dedicated to RS-422FX connection
		GT1020-LBDW	[160 ×64 dots]	STR Honochionie EGD	Diack	(black/white)	3-color LED	24VDC	51210	Dedicated to RS-422 connection
		GT1020-LBDW2					(white, pink, red)			Dedicated to RS-232 connection
	GT1020	GT1020-LBLW					(write, pink, red)	5VDC		Dedicated to RS-422FX connection
	011020	GT1020-LWD					3-color LED	24VDC		Dedicated to RS-422 connection
		GT1020-LWD2					(green, orange, red)			Dedicated to RS-232 connection
		GT1020-LWL	3.7"	STN monochrome I CD	White	Monochrome	(green, orange, red)	5VDC	512KB	Dedicated to RS-422FX connection
		GT1020-LWDW	[160×64 dots]		1	(black/white)	3-color LED	24VDC	0.210	Dedicated to RS-422 connection
		GT1020-LWDW2					(white, pink, red)			Dedicated to RS-232 connection
		GT1020-LWLW					(mino, plint, rou)	5VDC		Dedicated to RS-422FX connection

Communication interface

Product name	Model name	Specifications		Applicable model						
Product name	wodername			GT16	GT15	GT11	Handy GOT	GT10		
	GT15-QBUS	Bus connection (1ch) unit standard model for QCPU (Q mode)/motion controller CPU (Q series)		٠	٠	-	-	-		
	GT15-QBUS2	Bus connection (2ch) unit standard model for QCPU (Q mode)/motion controller CPU (Q series)		٠	٠	-	-	-		
	GT15-ABUS	Bus connection (1ch) unit standard model for QnA/ACPU/motion controller CPU (A series)		٠	٠	-	-	-		
Bus connection unit	GT15-ABUS2	Bus connection (2ch) unit standard model for QnA/ACPU/motion controller CPU (A series)		٠	٠	-	-	-		
Bus connection unit	GT15-75QBUSL	Bus connection (1ch) unit thin model ^{*1} for QCPU (Q mode)/motion controller CPU (Q series)		٠	٠	-	-	-		
	GT15-75QBUS2L	Bus connection (2ch) unit thin model ^{*1} for QCPU (Q mode)/motion controller CPU (Q series)		٠	٠	-	-	-		
	GT15-75ABUSL	Bus connection (1ch) unit thin model ^{*1} for QnA/ACPU/motion controller CPU (A series)		٠	٠	-	-	-		
	GT15-75ABUS2L	Bus connection (2ch) unit thin model ^{*1} for QnA/ACPU/motion controller CPU (A series)		•	٠	•				
	GT15-RS2-9P	RS-232 serial communication unit (D-sub 9-pin (male))		۲	٠	-	-	-		
	GT15-RS4-9S	RS-422/485 serial communication unit (D-sub 9-pin (fem	ale))*2*3	٠	۲	-	-	-		
Serial communication unit	GT15-RS4-TE	RS-422/485 serial communication unit (terminal block) ^{*2} *Usable only when connecting to temperature controllers/indicating controllers vi	a RS-485 or in GOT multi-drop connection.	٠	٠	-	-	-		
DO 100 1 1	GT15-RS2T4-9P		RS-422 connector: 9-pin	•	• 14	-	-	-		
RS-422 conversion unit	GT15-RS2T4-25P	RS-232→RS-422 conversion unit	RS-422 connector: 25-pin	٠	• 14	-	-	-		
MELSECNET/H	GT15-J71LP23-25	Optical loop unit		•	٠	-	-	-		
communication unit	GT15-J71BR13	Coaxial bus unit		۲	۲	-	-	-		
CC-Link IE controller network communication unit	GT15-J71GP23-SX	Optical loop unit		٠	٠	-	-	-		
CC-Link communication unit	GT15-J61BT13	Intelligent device station unit (supporting CC-Link version	n 2)	۲	۲	-	-	-		
Ethernet communication unit	GT15-J71E71-100	Ethernet (100Base-TX) unit		-	٠	-	-	-		
Serial multi-drop connection unit	GT01-RS4-M	For GOT multi-drop connection		•*5	• 15	•*5	-	•*5		
Connector conversion adapter	GT10-9PT5S	Conversion connector between D sub 9-pin male and Eu	rope terminal block 5-pin	-	-	•*5	-	•*5		
CC-Link interface unit	GT11HS-CCL	CC-Link interface unit for Handy GOT		_	_	_		_		
	GT11H-CCL	CC-Link Interface unit for Handy GOT			_		-	_		
*1 : The unit cannot be used stacked o *2 : The unit may not be able to be use		n destination. See "4.7.1 Connection type (page 269 to page 272)" in "4.7	Third Party Temperature Controller".							

*2: The unit may not be able to be used depending on the connection destination. See 47.1 Connection type (page 267 3: The unit cannot be used when connecting to temperature contributing dataget approximation of the set of the temperature of the set of the temperature of the set of the temperature of the set of the temperature of the set of the temperature of temperature of temperature of the temperature of temperatur

Product name	Model name	Specifications		Appl	icable m	iodel	
Product name	Model name	Specifications	GT16	GT15	GT11	Handy GOT	GT10
Printer unit	GT15-PRN	USB slave (PictBridge) for printer connection, 1ch *Cable for printer connection (3m) included	•	•	-	-	-
Multimedia unit	GT16M-MMR	For video input (NTSC/PAL) 1ch motion image playback	•2	-	-	-	-
Mala a languat conta	GT16M-V4	For video input (NTSC/PAL) 4ch	•2	-	-	-	-
Video input unit	GT15V-75V4	For video input (NTSC/PAL) 4ch	-	• *3	-	-	-
DOD insut unit	GT16M-R2	For analog RGB input 2ch	• *2	-	-	-	-
RGB input unit	GT15V-75R1	For analog RGB input 1ch	-	• '3	-	-	-
	GT16M-V4R1	For video input (NTSC/PAL) 4ch / analog RGB 1ch composite input	• *2	-	-	-	-
Video/RGB input unit	GT15V-75V4R1	For video input (NTSC/PAL) 4ch / analog RGB 1ch composite input	-	• '3	-	-	-
RGB output unit	GT16M-ROUT	For analog RGB output 1ch	• *2	-	-	-	-
RGB output unit	GT15V-75ROUT	For analog RGB output	-	• '3	-	-	-
CF card unit	GT15-CFCD	For additional CF card port (B drive) on the back of the GOT	•	•	-	-	-
CF card extension unit	GT15-CFEX-C08SET	For additional CF card port (B drive) at the front of the control panel*1	•	•	-	-	-
Sound output unit	GT15-SOUT	For sound output	•	•	-	-	-
Fotossel in sufficient colt	GT15-DIOR	For external input/output devices and operation panel connection (negative common input / source type output)	•	•	-	-	-
External input/output unit	GT15-DIO	For external input/output devices and operation panel connection (positive common input / sink type output)	•		-	-	-
*1 : Includes unit to be installed on the *2 : Excluding GT16 C-VNBC.	e control panel, unit to be installe	d on the GOT, and connection cable (0.8m).					

*3 : Only GT1585V and GT1575V are applicable

2 01

Software

Product name	Model name	Contents
GT Works3	SW1DNC-GTWK3-E	Single license <english version=""></english>
Version1	SW1DNC-GTWK3-EA	Multiple-license <english version=""></english>
License key for	GT15-SGTKEY-U	For USB port
GT SoftGOT1000 ^{*1}	GT15-SGTKEY-P	For parallel port
Personal computer		
remote operation	GT16-PCRAKEY	1 license
function (Ethernet) license*2		

*1: To use GT SoftGOT1000, a license key for GT SoftGOT1000 is necessary for each personal computer. *2: 1 license is required for 1 GOT unit.

Options

Product name	Model name	Spe	ecifications			licable n		
Flouderhame		Spe		GT16	GT15	GT11	Handy GOT	GT10
	GT16-90XLTT		For GT1695M-XTBD	•	-	-	-	-
	GT16-80SLTT		For GT1685M-STBD	•	-	-	-	-
	GT16-70SLTT		For GT1675M-STBD	•	-	-	-	- 1
	GT16-70VLTT		For GT1675M-VTBD		-	-	-	-
	GT16-70VLTN NEW		For GT1675-VNBD/GT1672-VNBD		_	_	_	_
	GT16-60SLTT		For GT1665M-STBD					<u> </u>
	GTI0-BUSLIT			•	-	-	-	-
	GT16-60VLTT		For GT1665M-VTB	•	-	-	-	-
Backlight	GT16-60VLTN NEW	Backlight	For GT1662-VNBD	•	-	-	-	-
	GT15-90XLTT	Backlight	For GT1595-XTB	-	•	-	-	-
	GT15-80SLTT		For GT1585V-STBD/GT1585-STBD	-	•	-	-	-
	GT15-70SLTT		For GT1575-STBD*1	-	ě	-	-	-
	GT15-70VLTT		For GT1575V-STBD/GT1575-VTBD/GT1575-STBD'2	-		-	-	-
	GT15-70VLTN		For GT1575-VNBD/GT1572-VNBD			_		-
				-		-	-	-
	GT15-60VLTT		For GT1565-VTB		•			
	GT15-60VLTN		For GT1562-VNB	-	•	-	-	-
	GT16-MESB		For MES interface function	•	-	-	-	-
	GT15-FNB		(No expansion memory)	-	•	-	-	-
	GT15-QFNB	Optional function board	(No expansion memory)	-		-	-	-
	GT15-QFNB16M	* The required optional function board	+ 16MB expansion memory	-	ě	-	-	-
Optional function board	GT15-QFNB32M	varies depending on the GOT main unit	+ 32MB expansion memory	-		-	-	-
	GT15-QFNB48M	and function.		-		_	_	-
		For the details, see "Notes for use"	+ 48MB expansion memory		•			
	GT15-MESB48M	(page 37).	+ 48MB expansion memory	-	•	-	-	-
	GT11-50FNB		-	-	-	• *3	• *10	-
GT10 memory loader	GT10-LDR	For GT1030/GT1020 (for OS project	data transfer) no power source required	-	-	-	-	• 7
GT10 memory board	GT10-50FMB	For GT105D/GT104D (for OS and p		-	-	-	-	
,	GT16-90PSCB		Clear, 5 sheets	•	-	-	-	<u> </u>
	GT16-90PSGB		Anti-glare, 5 sheets		-	_	_	-
	GT16-90PSCW		Clear (frame: white), 5 sheets		-	_	_	-
				-				
	GT16-90PSGW	Protective sheet for 15" screen	Anti-glare (frame: white), 5 sheets	•	-	-	-	-
	GT15-90PSCB		Clear, 5 sheets	-	•	-	-	-
	GT15-90PSGB		Anti-glare, 5 sheets	-	•	-	-	-
	GT15-90PSCW	1	Clear (frame: white), 5 sheets	-	•	-	-	-
	GT15-90PSGW		Anti-glare (frame: white), 5 sheets	-		-	-	-
	GT16-80PSCB		Clear, 5 sheets	•	-	-	-	-
	GT16-80PSGB		Anti-glare, 5 sheets		_	_	-	-
	GT16-80PSCW		Clear (frame: white), 5 sheets		-	-	_	_
				•				<u> </u>
	GT16-80PSGW	Protective sheet for 12.1" screen	Anti-glare (frame: white), 5 sheets	•	-	-	-	-
	GT15-80PSCB		Clear, 5 sheets	-	•	-	-	-
	GT15-80PSGB		Anti-glare, 5 sheets	-	•	-	-	-
	GT15-80PSCW	1	Clear (frame: white), 5 sheets	-	•	-	-	-
	GT15-80PSGW		Anti-glare (frame: white), 5 sheets	-		-	-	-
	GT16-70PSCB		Clear, 5 sheets	•	<u> </u>	-	-	-
	GT16-70PSGB		Anti-glare, 5 sheets		_	_	-	-
					-	-		
	GT16-70PSCW		Clear (frame: white), 5 sheets	•			-	-
	GT16-70PSGW	Protective sheet for 10.4" screen	Anti-glare (frame: white), 5 sheets	•	-	-	-	-
	GT15-70PSCB		Clear, 5 sheets	- 1	•	-	-	-
	GT15-70PSGB		Anti-glare, 5 sheets	-	•		-	-
Protective sheet	GT15-70PSCW		Clear (frame: white), 5 sheets	-		-	-	-
	GT15-70PSGW		Anti-glare (frame: white), 5 sheets	-		-	-	-
	GT16-60PSCB		Clear, 5 sheets			_		
	GT16-60PSGB	-				-		
			Anti-glare, 5 sheets	•				
	GT16-60PSCW		Clear (frame: white), 5 sheets	•	-	-	-	-
	GT16-60PSGW	Protective sheet for 8.4" screen	Anti-glare (frame: white), 5 sheets	•	-	-	-	-
	GT15-60PSCB	1 IOLOGUVE SHEEL IOL 0.4 SCIEEN	Clear, 5 sheets	-	•	-	-	-
	GT15-60PSGB	1	Anti-glare, 5 sheets	-	ě	-	-	-
	GT15-60PSCW	1	Clear (frame: white), 5 sheets	-		-	-	<u> </u>
	GT15-60PSGW		Anti-glare (frame: white), 5 sheets			-		
		B				_		
	GT16H-60PSC (context score)	Protective sheet for 6.5" screen (for Handy GOT)	Clear, 5 sheets	-	-		•*11	-
	GT15-50PSCB		Clear, 5 sheets	-	•	-	-	-
	GT15-50PSGB	Protective sheet for 5.7" screen	Anti-glare, 5 sheets	-	•	-	-	-
	GT15-50PSCW	(for GT15)	Clear (frame: white), 5 sheets	-		-	-	-
	GT15-50PSGW		Anti-glare (frame: white), 5 sheets	-	ě	-	-	-
	GT11-50PSCB		Clear, 5 sheets	-			-	_
		Desta stive shart for 5 78 se			<u> </u>			
	GT11-50PSGB	Protective sheet for 5.7" screen	Anti-glare, 5 sheets	-	-	٠	-	-
	GT11-50PSCW	(for GT11)	Clear (frame: white), 5 sheets	-	-	•	-	-
	GT11-50PSGW		Anti-glare (frame: white), 5 sheets	-	-	٠	-	- 1
	GT11H-50PSC	Protective sheet for 5.7* screen (for Handy GOT)	Clear, 5 sheets	-	-	-	•*10	- 1
	GT10-50PSCB	(Clear, 5 sheets	-	-	-	-	•
	GT10-50PSGB	Protective sheet for 5.7" screen	Anti-glare, 5 sheets	-	_	-	-	
				-	-			
	GT10-50PSCW GT10-50PSGW	(for GT1050)	Clear (frame: white), 5 sheets Anti-glare (frame: white), 5 sheets	-	-	-	-	•

Options

Product name	Madalaama		C	acifications			App	licable n	nodel	
	Model name		Spi	ecifications		GT16	GT15	GT11	Handy GOT	GT
	GT10-40PSCB			Clear, 5 sheets		_	-	-	_	
	GT10-40PSGB	Protective sheet f	or 4.7" scroon	Anti-glare, 5 sheets		-	-	-	-	
	GT10-40PSCW	(for GT104 ^[])	014.7 3010011			-	-	-	-	
		(101 01 104 [])		Clear (frame: white), 5 she			-	_	-	
	GT10-40PSGW			Anti-glare (frame: white), 5	sheets					-
	GT10-30PSCB			Clear, 5 sheets		-	-	-	-	
rotective sheet	GT10-30PSGB	Protective sheet f	or 4.5" screen	Anti-glare, 5 sheets		-	-	-	-	
	GT10-30PSCW	(for GT1030)		Clear (frame: white), 5 she	ets	-	-	-	-	
1	GT10-30PSGW			Anti-glare (frame: white), 5	5 sheets	-	-	-	-	
	GT10-20PSCB			Clear, 5 sheets			-	-	-	
	GT10-20PSGB	Protective sheet f	or 3.7" screen	Anti-glare, 5 sheets		-	-		-	
	GT10-20PSCW	(for GT1020)		Clear (frame: white), 5 she	vote	-	-	-		ti
		(101 01 1020)				_	-	_	_	
	GT10-20PSGW			Anti-glare (frame: white), 5	sneets			_	-	<u> </u>
	GT16-UCOV	Protective cover f		For 15"/12.1"/10.4"/8.4"		•	-			· ·
ISB protective cover	GT15-UCOV	USB interface on		For 15"/12.1"/10.4"/8.4"		-	•	-	-	· ·
	GT11-50UCOV	panel (for replace		For 5.7"		-	•	•	-	·
	GT05-90PCO	Oil resistant cover	r for 15" screen			•	•	-	-	· ·
	GT05-80PCO	Oil resistant cover	for 12.1" screen			•		-	-	
	GT05-70PCO	Oil resistant cover				ě	•	-	-	
il resistant cover"5	GT05-60PCO	Oil resistant cover						_	-	
in realatellit COVEI						-			-	
	GT05-50PCO	Oil resistant cover				-	-	٠		
	GT10-30PCO	Oil resistant cover				-	-	-	-	-
	GT10-20PCO NEW	Oil resistant cover	for 3.7" screen			-	-	-	-	
	GT16H-60ESCOV	For oppidents!	aration prover*!	of omorgonou atop a		-	-	-	• *11	
mergency stop switch guard	GT11H-50ESCOV	For accidental-op	eration prevention	of emergency stop switch		-	-	-	• *10	
	GT15-90STAND	Stand for 15" type				•	•		_	
		Stand for 12.1" ty				ě	ě	-	-	١.
tand	GT15-80STAND							_	_	
	GT15-70STAND	Stand for 10.4"/8.				•	•		-	
	GT05-50STAND Stand for 5.7" type					-	•	٠	-	
	GT05-MEM-128MC	128MB flash ROM				•	•	•	•	
	GT05-MEM-256MC	256MB flash ROM	1			•	•	•	•	· ·
1	GT05-MEM-512MC	512MB flash ROM	1		•	•	٠	•		
	GT05-MEM-1GC	1GB flash ROM								
CF card	GT05-MEM-2GC	2GB flash ROM				ě		ě	ě	÷.
						-	-	-	-	
	GT05-MEM-4GC	4GB flash ROM				•				-
	GT05-MEM-8GC	8GB flash ROM				•	-	-	• *11	
	GT05-MEM-16GC	16GB flash ROM				•	-	-	• *11	· ·
Memory card adapter	GT05-MEM-ADPC	CF card →memor	v card (TYPEI) co	nversion adapter		•	•	٠	•	
	GT15-70ATT-98		A985GOT *6				•	-	-	
		Attachment for	A870GOT-SWS	A8GT-70GOT-TB	GT167					
	GT15-70ATT-87	10.4" type	A870GOT-TWS	A8GT-70GOT-SW	GT157	•		_	-	
	G113-70A11-07	10.11 ()p0	A8GT-70GOT-TV				-			
	0715 00477 07			AUG1-/UGU1-SB						-
	GT15-60ATT-97		A97⊡GOT		-		•	-	-	
	GT15-60ATT-96		A960GOT		_		•	-	-	
ttachment			A870GOT-EWS	A77GOT-EL-S5			1		1 -	1
	GT15-60ATT-87	Attachment for	A8GT-70GOT-EV	A77GOT-EL-S3	GT166		•	-	-	
		8.4" type	A8GT-70GOT-EB	A77GOT-EL	→GT156	•	-		1	
			A77GOT-CL-S5	A77GOT-L-S5	-					+
	GT15-60ATT-77		A77GOT-CL-S3	A77GOT-L-S3				_	-	
	G113-00A11-77						-	-		
			A77GOT-CL	A77GOT-L			-			-
	GT15-50ATT-95W	Attachment for	A956WGOT		_GT155	_	•	٠	-	
	GT15-50ATT-85	5.7" type	A85 GOT		GT115		•	•	-	
	GT15-BAT	Battery for backup	o of clock data and	maintenance time notificat	tion data	٠	•	-	• *10	
attery				m history and recipe data (-		• "11	

Manuals

Manual title	Catalog No.
GT Designer3 Version1 Screen Design Manual (Fundamentals)	SH-080866ENG
GT Designer3 Version1 Screen Design Manual (Functions) *A set of two volumes	SH-080867ENG
GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3	SH-080868ENG
GOT1000 Series Connection Manual (Non-Mitsubishi Products 1) for GT Works3	SH-080869ENG
GOT1000 Series Connection Manual (Non-Mitsubishi Products 2) for GT Works3	SH-080870ENG
GOT1000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3	SH-080871ENG
GOT1000 Series Gateway Functions Manual for GT Works3	SH-080858ENG
GOT1000 Series MES Interface Function Manual for GT Works3	SH-080859ENG
GT SoftGOT1000 Version3 Operating Manual for GT Works3	SH-080861ENG
GT Simulator3 Version1 Operating Manual for GT Works3	SH-080860ENG
GT Converter2 Version3 Operating Manual for GT Works3	SH-080862ENG
GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3	SH-080863ENG
GT16 User's Manual (Hardware)	SH-080928ENG
GT16 User's Manual (Basic Utility)	SH-080929ENG
GT15 User's Manual	SH-080528ENG
GT11 User's Manual	JY997D17501
GT16 Handy GOT User's Manual (Hardware • Utility, Connection) *A set of two volumes	(coning scot)
GT11 Handy GOT User's Manual (Hardware • Utility, Connection) *A set of two volumes	JY997D20101
GT10 User's Manual	JY997D24701

COMPLIANCE WITH OVERSEAS STANDARDS

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EQUIPMENT, SOFTWARE. AND MANUALS

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GLOSSARY

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SOFTWARE

Cables

	Product name	Model name	Cable	Third party products	Application	OTAS		able m		107
			length	*1		GT16	GT15	GT11	GOT	GT
		GT15-QC06B GT15-QC12B	0.6m 1.2m	-						1
	QCPU extension cable	GT15-QC12B GT15-QC30B		0	For connection between QCPU and GOT					
	GOT-to-GOT connection cable	GT15-QC30B GT15-QC50B	3m		For connection between GOT and GOT	•	•	•	-	1.
us connection able for		GT15-QC100B	5m 10m	1						
ICPU (Q mode)		GT15-QC150BS	15m				<u> </u>		<u> </u>	+
(CPO (Q mode)	Long-distance connection	GT15-QC200BS	20m	1	For long-distance (13.2m or more) connection between					
	cable for QCPU	GT15-QC250BS	25m	0	QCPU and GOT (A9GT-QCNB required)	•			_	
	GOT-to-GOT long-distance	GT15-QC300BS	30m	1	For long-distance connection between GOT and GOT	-	-	-		
	connection cable	GT15-QC350BS	35m	1	To long-distance connection between GOT and GOT					
us extension conr	aector box	A9GT-QCNB	-	-	Used for QCPU long-distance (13.2m or more) bus connection	•	•	•	-	
	1	GT15-C12NB	1.2m	-		-	-	-	-	+
		GT15-C30NB	3m	0	For connection between QnA/ACPU/motion controller CPU	•	•	•	_	
		GT15-C50NB	5m	1	(A series, extension base) and GOT	-	-	-		
		GT15-AC06B	0.6m	-			<u> </u>		<u> </u>	+
		GT15-AC12B	1.2m	1.	For connection between QnA/ACPU/motion controller CPU					
	Large CPU	GT15-AC30B	3m	0	(A series, extension base) and A7GT-CNB	•	•	•	-	1
	extension cable	GT15-AC50B	5m	1						
		GT15-A370C12B-S1	1.2m	-	For connection between motion controller CPU		<u> </u>		<u> </u>	+
		GT15-A370C25B-S1	2.5m	0	(A series, main base) and GOT	•	•	•	-	·
		GT15-A370C12B	1.2m	-	For connection between motion controller CPU		<u> </u>			+
		GT15-A370C12B GT15-A370C25B	2.5m	0	(A series, main base) and A7GT-CNB	•	•	•	-	1
		GT15-A370C25B GT15-A1SC07B	2.5m 0.7m	-						+
		GT15-A1SC07B GT15-A1SC12B	0.7m	0	For connection between QnAS/AnSCPU/motion controller CPU			•	_	1.
us connection		GT15-A1SC12B GT15-A1SC30B	1.2m 3m	+	(A series) and GOT	-		-		Ľ
us connection able for		GT15-A1SC30B GT15-A1SC50B	3m 5m	0	For connection between On AS/AnSCRU and GOT	•	•	•	-	
IDIE TOP nA/ACPU/motion	Small CPU extension cable	GT15-A1SC50B GT15-A1SC05NB	0.45m	<u> </u>	For connection between QnAS/AnSCPU and GOT	-	-	-	-	+ '
nA/ACPU/motion		GT15-A1SC05NB GT15-A1SC07NB	0.45m	0	For connection between QnAS/AnSCPU/motion controller CPU	•		•		
ntroller CPU series)				1 °	(A series) and A7GT-CNB	-		-	-	
v series)		GT15-A1SC30NB	3m		For connection between QnAS/AnSCPU and A7GT-CNB	6	6	•		+
		GT15-A1SC50NB	5m			•	•	•	-	+
		GT15-C100EXSS-1	10.6m	-	For long-distance connection between QnAS/AnSCPU/motion					
	Small CPU long-distance	GT15-C200EXSS-1	20.6m	0	controller CPU (A series) and GOT	•		•	-	
	connection cable	GT15-C300EXSS-1	30.6m		For long-distance connection between A7GT-CNB and GOT	-	-	-		
				I	*Set of GT15-EXCNB and GT15-CBBS	L	L	L	L	+
		GT15-C07BS	0.7m	4						1
	GOT-to-GOT	GT15-C12BS	1.2m	0	For connection between GOT and GOT	•		•	_	1.
	connection cable	GT15-C30BS	3m	1 × .	and GOT and GOT	•	1	•		1
		GT15-C50BS	5m							
	GOT-to-GOT long-distance	GT15-C100BS	10m				_			1
	connection cable	GT15-C200BS	20m	0	For connection between GOT and GOT	•	•	•	-	
		GT15-C300BS	30m							
	A0J2HCPU connection cable	GT15-J2C10B	1m	0	For connection between power supply unit (A0J2-PW) for A0J2HCPU and GOT	٠	۲	٠	-	
us connector conv	version box	A7GT-CNB	-		Used for QnA/ACPU long-distance bus connection	٠	•	٠		1
uffer circuit cable		GT15-EXCNB	0.5m	0	Usable as GT15-CEXSS-1 in combination with GT15-CES	٠	۲	٠	-	1
	Q bus cable (two-pack)	GT15-QFC	-	0	Ferrite cores for replacing existing GOT-A900 bus cable with	•	•	•	_ [_]	1.
	A bus cable (two-pack)	GT15-AFC	-	-	bus cable for GOT1000	-	-	-		
S-422 conversion		GT16-C02R4-9S	0.2m	0	For connection between RS-422/485 (connector) of GT16 and RS-422 cable (D-sub 9 pins)	•	-	-	-	
		FA-LTBGTR4CBL05	0.5m		RS-485 terminal block conversion unit					1
S-485 terminal b	lock conversion unit	FA-LTBGTR4CBL10	1m	0	*With cable for connection between RS-422/485 (connector) of	•	-	-	-	1 .
		FA-LTBGTR4CBL20	2m		GT16 and RS-485 terminal block conversion unit					
		GT01-C30R4-25P	3m		For connection between QnA/ACPU/motion controller CPU (A				•"3	
		GT01-C100R4-25P	10m	_	series)/FXCPU (D-sub 25-pin connector) and GOT	•*6		•		
	QnA/A/FXCPU	GT01-C200R4-25P	20m		For connection between FA-CNV ^{ID} CBL and GOT For connection between serial communication unit and GOT			•		1
	direct connection cable	GT01-C300R4-25P	30m		For connection between AJ65BT-G4-S3 and GOT					
	Computer link	GT10-C30R4-25P	3m		For connection between QnA/A/FXCPU (D-sub 25-pin					
	connection cable	GT10-C100R4-25P	10m		connector) and GOT					
		GT10-C200R4-25P	20m	1 -	For connection between serial communication unit	-	-	-	-	1
		GT10-C300R4-25P	30m	1	(AJ71QC24(N)-R4) and GOT					
		GT09-C30R4-6C	3m							
	Computer link	GT09-C100R4-6C	10m	0	For connection between serial communication unit and GOT	•*6			• 3	
	connection cable	GT09-C200R4-6C	20m		For connection between computer link unit and GOT	•	•	•		1 '
		GT09-C300R4-6C	30m						-	
		GT01-C10R4-8P	1m			1		1		1
		GT01-C30R4-8P	3m	1					•"3	
		GT01-C100R4-8P	10m]		• 6	•	•	-	+
S-422 cable		GT01-C200R4-8P	20m	1	For connection between FXCPU				-	
		GT01-C300R4-8P	30m	- 1	(MINI-DIN 8-pin connector) and GOT					
		GT10-C10R4-8P	1m	1	For connection between FXCPU					1
	FXCPU direct	GT10-C30R4-8P	3m	-	communication function extension board and GOT					
	FXCPU direct connection cable	GT10-C100R4-8P	10m	-						
	EX communication	GT10-C200R4-8P	20m	-						
	FX communication function extension board	GT10-C300R4-8P	30m			-	-	-	-	
	connection cable				For connection between FXCPU (MINI-DIN 8-pin connector) and GOT					
	Confidential Capit	GT10-C10R4-8PL	1m	-	For connection between FXCPU communication function extension board (MINI-DIN 8-oin connector) and GOT					
		GT10-C10R4-8PC	1m	<u> </u>	*The unit cannot be used with the FX1NC, FX2NC, FX3UC-D/DSS, FX3G.		<u> </u>		<u> </u>	+
		GT10-C10R4-8PC GT10-C30R4-8PC	1m 3m	1	For second in between EVCDU (MINI DIN 8 via second 1) 1 COT					
		GT10-C30R4-8PC	10m	1.	For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board					
		GT10-C200R4-8PC	20m	1 -	(MINI-DIN 8-pin connector) and GOT	-	-	-	-	
		GT10-C300R4-8PC	30m	1	(mmercene orphi connector) and do r					
		2	0011	<u> </u>	For connection between Q/LCPU and GOT/personal computer				-	+
					(GT SoftGOT1000) (D-sub 9-pin)	•	•	•	-	
			3m	L –	For connection between personal computer (screen design software)					+
0.000	Q/LCPU direct	GT01-C30R2-6P								
S-232 cable	connection cable	G101-C30R2-6P				-	-	-	•	
S-232 cable		GT10-C30R2-6P	3m	-	(D-sub 9-pin, female) and GOT (MINI-DIN 6-pin, male) For connection between Q/LCPU and GOT and between GOTs.	-	-	-	•	

Cables

	Devident	Model name	Cable	Third party	Annulling				ble model *2				
	Product name	Model name	length	products *1	Application	GT16	GT15	GT11	Handy GOT	GT10			
RS-232 cable	FX communication function extension board connection cable, FX communication function adapter connection cable, Data transfer cable	GT01-C30R2-9S	3m	-	For connection between FXCPU communication function extension board (D-sub 9-pin connector) and GOT(personal computer (GT SoftGOT1000) (D-sub 9-pin) For connector between FXCPU communication function adapter (D-sub 9-pin connector) and GOT For connection between personal computer (screen design software) (D-sub 9-pin, fumile) and GOT (D-sub 9-pin, female)	•	•	•	•3	•			
	FX communication function adapter connection cable	GT01-C30R2-25P	3m	-	For connection between FXCPU communication special adapter (D-sub 25-pin connector) and GOT, personal computer (GT SoftGOT1000) (D-sub 9-pin)	٠	٠	•	•	•			
	Computer link	GT09-C30R2-9P	3m	0	For connection between serial communication unit and GOT For connection between computer link unit and GOT	-							
	connection cable	GT09-C30R2-25P	3m		For connection between AJ65BT-R2N and GOT (GT09-C30R2-9P only)	•	•	•	*3	4			
Connector convers	sion box for Handy GOT	GT16H-CNB-42S (contriguous)	-	-	Converts Handy GOT connector to RJ-45 for terminal block, D-sub connector or Ethernet for each signal type	-	-	-	• •7	-			
		GT11H-CNB-37S	-	-	Converts D-sub 37-pin connector to terminal block and D-sub 9-pin connector	-	-	-	• *8	-			
		GT16H-C30-42P (coning scor) GT16H-C60-42P (coning scor) GT16H-C100-42P (coning scor)	3m 6m 10m	-	For connection between connector conversion box and Handy GOT	-	-	-	•	-			
External	FA device, power supply and operation switch	GT16H-C30-32P (011920) GT16H-C50-32P (011920) GT16H-C80-32P (011920) GT16H-C130-32P (011920)	3m 6m 8m 13m	_	For connection between CC-Link interface unit and Handy GOT	-	-	-	•	-			
connection cable	connection cable	GT11H-C30-37P GT11H-C60-37P GT11H-C100-37P	3m 6m 10m	-	For connection between FA device connection relay cable and GOT	-	-	-	•	-			
		GT11H-C30 GT11H-C60 GT11H-C100	3m 6m 10m	-	For connection between FA device, power supply and operation switches and GOT	-	-	-	•	-			
	RS-422, power supply and operation switch	GT11H-C15R4-8P	1.5m	-	For connection between FXCPU and GOT For connection between power supply and operation switches and GOT	-	-	-	•8	-			
FA device	connection cable	GT11H-C15R4-25P	1.5m	-	For connection between A/QnACPU and GOT For connection between power supply and operation switches and GOT	-	-	-	•	-			
connection	RS-232, power supply and operation switch connection cable	GT11H-C15R2-6P	1.5m	-	For connection between QCPU and GOT For connection between power supply and operation switches and GOT	-	-	-	•	-			
relay cable	Dedicated cable for CC-Link interface unit	GT11H-C30-32P GT11H-C50-32P GT11H-C80-32P GT11H-C130-32P	3m 5m 8m 13m	-	For connection between CC-Link interface unit and Handy GOT	-	-	-	•	-			
Barcode reader co	nnection cable	GT10-C20H-6PT9P	0.2m	-	For connection between barcode reader (D-sub 9-pin, female) and GOT (MINI-DIN 6-pin, female) RS-232	-	-	-	-	•			
External I/O unit or	onnection conversion cable	GT15-C03HTB	0.3m	0	For connection between GOT1000 (external I/O unit) and GOT-A900 external I/O interface unit connection cable (A8GT-C05TK/A8GT-C30TB/user-fabricated cable)	٠	٠	-	-	-			
Analog RGB cable		GT15-C50VG	5m	0	For connection between external monitor, personal computer and vision sensor and GOT	٠	۰	-	-	-			
	RS-232/USB conversion adapter for data transfer	GT10-RS2TUSB-5S	-	-	For connection between personal computer (USB) and GOT (RS-232) (Adapter and personal computer are connected with GT09-C30USB-5P.)	-	-	-	-	•			
USB cable	Data transfer cable	GT09-C30USB-5P	3m	0	For connection between personal computer (USB) and GOT (USB mini-B) For connection between QnUCPU (USB mini-B) and personal computer (GT SoftGOT1000) For connection between printer and GOT (printer unit)	•	•	•	•	•			
Extension USB wa	tommof cablo	GT10-C10EXUSB-5S	1m	-	For connection between printer and GOT (printer unit) For extending the USB port of GOT to the control panel	-	-	-	-	• 4			
LAGUADUI USD Wa	terproor cable	0110 0102/000-00 000	1 000	1	The extending the bob part of COT to the control parter	L		1					

 Extension USB waterproof cable
 GT10-CTECNUSESS (CD)
 Im
 For extending the USB port of GOT to the control panel
 -<

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2 01

SOFTWARE

CONNECTION CONFIGURATION

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COMPLIANCE WITH OVERSEAS STANDARDS

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EQUIPMENT, SOFTWARE. AND MANUALS

Cables for third party FA devices

	Product name	Model name	Cable	Third party products	GOT connection destination		Applic					
	rioddornamo	modername	length	*1		GT16	GT15	GT11	Handy GOT	GT1		
	Cable for OMRON PLC	GT09-C30R20101-9P	3m		PLC CPU: CPM2A/CQM1(H)/CS1/CJHC1/C2HCP1E/C200HG/ C200HE/CV5000V10000CV2000CVM1 RS-232C adapter: CPM1-01F01/CPM2C-CIF01-V1 Cable: CPM2C-N11/CQM1-CIF02 Serial communication unitibaark: CQM1-SCB41/C200HW-CQM02/ C200HW-CQM05/C200HW-CQM05/CS1W-SCB21(-V1)/CS1W-SCB41(-V1)/ C3W-SCB21(-V1)/CJ1W-SCB21(-V1)/CS1W-SCB41(-V1)/CS1W					-2		
		GT09-C30R20102-25S	3m	1	Connection cable: CQM1-CIF01	1						
		GT09-C30R20103-25P	3m		Base mount type host link unit: C500-LK201-V1/C200H-LK201-V1	1						
	0.11.6.	GT09-C30R21101-6P	3m	1	PLC CPU: KV-700/1000/3000	1						
	Cable for	GT09-C30R21102-9S	3m	1	Multi-communication unit: KV-L20/KV-L20R/KV-L20V (port 1)	1						
	KEYENCE PLC	GT09-C30R21103-3T	3m		Multi-communication unit: KV-L20/KV-L20R/KV-L20V (port 2)	1						
	Cable for Sharp	GT09-C30R20601-15P	3m		PLC CPU: JW-22CU/70CUH/100CUH/100CU					F		
		GT09-C30R20602-15P	3m		PLC CPU: JW-32CUH/33CUH/Z-512J	1						
	Cables for JTEKT PLC	GT09-C30R21201-25P	3m		RS-232/RS-422 converter: TXU-2051	1						
	Cable for Shinko Technos digital indicating controller	GT09-C30R21401-4T	3m	1	Digital indicating controller: FCR-100/FCD-100/FCR-23A/PC-900/FIR series	1						
	Cable for	GT09-C30R20501-9P	3m	1	PLC CPU: T2E	1						
	TOSHIBA PLC	GT09-C30R20502-15P	3m	1	PLC CPU: T2N	1						
	Cable for Hitachi Industrial Equipment Systems PLC	GT09-C30R20401-15P	3m		PLC CPU: Large-size H series/H200 to 252 series/H series board type/ EH-150 series							
	Equipment Systems PLC		0		Intelligent serial port module: COMM-H/COMM-2H							
	Cable for	GT09-C30R20402-15P	3m		PLC CPU: H-4010/H-252C/EH-150 series							
5-232	Hitachi PLC	GT09-C30R21301-9S	3m		Communication module: LQE560/LQE060/LQE160							
ble	Cable for Fuji Electric FA			0	RS-232C interface card: NV1L-RS2				•			
	Components & Systems PLC	GT09-C30R21003-25P	3m	l × l	RS-232C/485 interface capsule: FFK120A-C10	-			*3			
	Componenta di Systema r EC				General interface module: NC1L-RS2/FFU120B							
		GT09-C30R20901-25P	3m	1	RS-422 →232 conversion adapter: AFP8550	1				Г		
	Cable for Panasonic Electric	GT09-C30R20902-9P	3m		PLC CPU: FP2/FP2SH/FP10(S)/FP10SH/FP-M Computer communication unit: AFP2462/AFP3462/AFP5462	1						
	Works PLC	GT09-C30R20903-9P	3m	1	PLC CPU: FP1-C24C/C40C	1						
		GT09-C30R20904-3C	3m	1	PLC CPU: FP1-C16CT/C32CT/FPOR	1						
	Cable for	GT09-C30R20201-9P	3m		PLC CPU: GL120/GL130/MP-920/MP-930/CP-9200(H)/PROGIC-8 (port 1) MEMOBUS module: JAMSC-IF60/JAMSC-IF61 Communication module: 217/F/CP-217/F (when connected to CN1)/ 217/F-01/218/F-01							
	YASKAWA Electric PLC	GT09-C30R20202-15P	3m	1	PLC CPU: PROGIC-8 (port 2)							
	YASKAWA Electric PLC	GT09-C30R20203-9P	3m	1	PLC CPU: CP-9300MS	1						
		GT09-C30R20204-14P	3m	1	PLC CPU: MP-940	1						
		GT09-C30R20205-25P	3m	1	MEMOBUS module: CP-217IF (when connected to CN2) Yokogawa Electric personal computer module: LC01-0N/LC02-0N	1						
		GT09-C30R20301-9P	3m	1	CPU port/D-sub 9-pin conversion cable: KM10-0C/KM10-0S	1				F		
	Cable for	GT09-C30R20302-9P	3m	1	Personal computer link module: F3LC01-1N/F3LC11-1N/F3LC11-1F/F3LC12-1F	1						
	Yokogawa Electric PLC	GT09-C30R20305-9S	3m		PLC CPU: NFCP1000/NFJT100							
	Cable for Yokogawa Electric temperature controller	GT09-C30R20304-9S	3m		Converter: ML2-							
	Cable for Allen-Bradley (Rockwell Automation, Inc.) PLC	GT09-C30R20701-9S	3m		PLC CPU: SL500 series					F		
	Cable for Siemens AG PLC	GT09-C30R20801-9S	3m	1	HMI adapter	1						

Settimates Adv PLC

Them Stated adve by Mitsubish Electric System & Service Co., LTD, and sold through your local sales office.

Them Stated adve by Mitsubish Electric System & Service Co., LTD, and sold through your local sales office.
Them Stated adve by Mitsubish Electric System & Service Co., LTD, and sold through your local sales office.
The RS-4422 cable less than 10m and the RS-232 cable less than 3m can be used when the connector conversion box for the Handy GOT is used.
The CIT MSC and GT1MSC, and GT1MSC, and GT1MSC.

The RS-4422 cable less than 10m and the RS-232 cable less than 3m can be used when the connector conversion box for the Handy GOT is used.
The CIT MSC and GT1MSC, and GT1MSC, and GT1MSC.

Cables for third party FA devices

	Product n	ame	Model name	Cable length	Third party products *1	GOT connection destination	GT16		GT11				
			GT09-C30R40101-9P	3m		PLC CPU: CV500/CV1000/CV2000/CVM1				001			
			GT09-C100R40101-9P	10m		Serial communication unit: CJ1W-SCU41							
			GT09-C200R40101-9P	20m		Serial communication board: CQM1-SCB41/CS1W-SCB41							
			GT09-C300R40101-9P	30m		Communication board: C200HW-COM03/COM06							
			GT09-C30R40102-9P	3m									
	Cable for		GT09-C100R40102-9P	10m		Base mount type host link unit: C200H-LK202-V1/C500H-LK201-V1							
C	OMRON P	LC	GT09-C200R40102-9P	20m									
			GT09-C300R40102-9P	30m			_						
			GT09-C30R40103-5T	3m							*4	Ö	
			GT09-C100R40103-5T	10m		Communication board: CP1W-CIF11/CP1W-CIF12/CJ1W-CIF11						<u>ں</u>	
			GT09-C200R40103-5T	20m									
- H			GT09-C300R40103-5T	30m			_					2	
	Cable for		GT09-C30R41101-5T GT09-C100R41101-5T	3m 10m								_	
	Cable for KEYENCE	DI O	GT09-C200R41101-5T	20m		Multi-communication unit: KV-L20/KV-L20R/KV-L20V (port 2)							
ľ	RETENCE	PLC	GT09-C200R41101-5T	20m 30m		·····							
- H			GT09-C30R40601-15P	30m 3m			_				<u> </u>		
			GT09-C100R40601-15P	10m									
			GT09-C200R40601-15P	20m		PLC CPU: JW-22CU/70CUH/100CUH/100CU						ш	
			GT09-C300R40601-15P	30m								<u>∝</u>	
			GT09-C30R40602-15P	3m			_					<	
	Cable for		GT09-C100R40602-15P	10m								SOFTWARE	
	Sharp Man	ufacturing	GT09-C200R40602-15P	20m		PLC CPU: JW-32CUH/33CUH/Z-512J							
	Svstems P		GT09-C300R40602-15P	30m								ō	
1	Systems r	20	GT09-C30R40603-6T	3m			_					S	
			GT09-C100R40603-6T	10m				1	1	1			
			GT09-C200R40603-6T	20m		Link unit: JW-21CM/10CM/ZW-10CM		1	1			3	
			GT09-C300R40603-6T	30m				1	1	1			
- H			GT09-C30R41201-6C	3m			_						
	Cable for		GT09-C100R41201-6C	10m		PLC CPU: PC3J/PC3JL							
	JTEKT PL		GT09-C200R41201-6C	20m		Communication module: PC/CMP2-LINK							
ľ		5	GT09-C300R41201-6C	30m									
- H			GT09-C30R40501-15P	3m			_						
			GT09-C100R40501-15P	10m								z	
			GT09-C200R40501-15P	20m		PLC CPU: T2/T3/T3H/model3000(S3)						FUNCTION	
			GT09-C300R40501-15P	30m									
			GT09-C30R40502-6C	3m			_					우	
	Cable for		GT09-C100R40502-6C	10m								5	
	TOSHIBA	PLC	GT09-C200R40502-6C	20m		PLC CPU: T2E/model2000(S2)						Ш.	
2	1001110/11	. 20	GT09-C300R40502-6C	30m									
-			GT09-C30R40503-15P	3m	0		- •	•	•	•	-	4	
			GT09-C100R40503-15P	10m			*5			*3		_	
			GT09-C200R40503-15P	20m		PLC CPU: T2N							
			GT09-C300R40503-15P	30m								2	
	Cable for		GT09-C30R40401-7T	3m								CONNECTION CONFIGURATION	
	Cable for Hitachi Ind		GT09-C100R40401-7T	10m		Intelligent serial port module: COMM-H/COMM-2H						ZE	
		Systems PLC	GT09-C200R40401-7T	20m		Intelligent senal port module. COMM-H/COMM-2H						CONNECTION	
Ľ	Equipment	Systems PLC	GT09-C300R40401-7T	30m								5.5	
			GT09-C30R41301-9S	3m								22 12	
	Cable for		GT09-C100R41301-9S	10m		PLC CPU: LQP510						별 준	
H	Hitachi PL(C	GT09-C200R41301-9S	20m	l l		Communication module: LQE565/LQE165						zz
L			GT09-C300R41301-9S	30m								00	
	Cable for		GT09-C30R41001-6T	3m								00	
	Fuji Electri		GT09-C100R41001-6T	10m		RS-232C/485 interface capsule: FFK120A-C10		1	1	1			
	Componen		GT09-C200R41001-6T	20m		General interface module: NC1L-RS4/FFU120B		1	1	1		5	
S	Systems P	LC	GT09-C300R41001-6T	30m			_	1	1		L		
			GT09-C30R40201-9P	3m				1	1				
			GT09-C100R40201-9P	10m		MEMOBUS module: JAMSC-120NOM27100/JAMSC-IF612		1	1	1		Ś	
			GT09-C200R40201-9P GT09-C300R40201-9P	20m				1	1	1		COMPLIANCE WITH OVERSEAS STANDARDS	
	Cable for			30m				1	1	1	•	COMPLIANCE WITH OVERSE STANDARDS	
Y	Yaskawa E	Electric PLC	GT09-C30R40202-14P GT09-C100R40202-14P	3m 10m							*4	9 ¥ 8	
						PLC CPU: MP940						A E R	
			GT09-C200R40202-14P	20m 30m								164	
			GT09-C300R40202-14P GT09-C30R40301-6T				_				<u> </u>	르으므	
				3m 10m								Sta	
-						Personal computer link module: F3LC11-2N						COMPLIANCI WITH OVERS STANDARDS	
+			GT09-C100R40301-6T							1	1	0 > 0	
$\left \right $			GT09-C100R40301-6T GT09-C200R40301-6T	20m									
-		PLC	GT09-C100R40301-6T GT09-C200R40301-6T GT09-C300R40301-6T	20m 30m								^	
-		PLC	GT09-C100R40301-6T GT09-C200R40301-6T GT09-C300R40301-6T GT09-C300R40302-6T	20m 30m 3m			_					6	
		PLC	GT09-C100R40301-6T GT09-C200R40301-6T GT09-C300R40301-6T GT09-C30R40302-6T GT09-C100R40302-6T	20m 30m 3m 10m		Personal computer link module: LC02-0N	_					6	
	Cable for	PLC	GT09-C100R40301-6T GT09-C200R40301-6T GT09-C300R40301-6T GT09-C30R40302-6T GT09-C100R40302-6T GT09-C200R40302-6T	20m 30m 3m 10m 20m		Personal computer link module: LC02-0N						6	
Y	Yokogawa	PLC	GT09-C100R40301-6T GT09-C200R40301-6T GT09-C300R40301-6T GT09-C30R40302-6T GT09-C100R40302-6T GT09-C200R40302-6T GT09-C200R40302-6T	20m 30m 3m 10m 20m 30m		Personal computer link module: LC02-0N					_	6	
Y		PLC	GT09-C100R40301-6T GT09-C200R40301-6T GT09-C300R40301-6T GT09-C30R40302-6T GT09-C100R40302-6T GT09-C200R40302-6T GT09-C300R40302-6T GT09-C300R40303-6T	20m 30m 3m 10m 20m 30m 3m		Personal computer link module: LC02-0N					_	6 	
Y	Yokogawa	PLC	GT09-C100R40301-6T GT09-C200R40301-6T GT09-C300R40301-6T GT09-C300R40302-6T GT09-C300R40302-6T GT09-C200R40302-6T GT09-C300R40302-6T GT09-C300R40303-6T GT09-C100R40303-6T	20m 30m 3m 10m 20m 30m 3m 10m		Personal computer link module: LC02-0N Temperature controller: GREEN series					-	6 ALS	
Y	Yokogawa		GT09-C100R40301-6T GT09-C200R40301-6T GT09-C300R40301-6T GT09-C30R40302-6T GT09-C30R40302-6T GT09-C200R40302-6T GT09-C300R40302-6T GT09-C300R40303-6T GT09-C300R40303-6T GT09-C100R40303-6T	20m 30m 3m 10m 20m 30m 3m 10m 20m							-	NT, RE. UALS	
Y	Yokogawa	Temperature	GT09-C100R40301-6T GT09-C200R40301-6T GT09-C300R40301-6T GT09-C300R40302-6T GT09-C100R40302-6T GT09-C200R40302-6T GT09-C300R40302-6T GT09-C300R40303-6T GT09-C300R40303-6T GT09-C200R40303-6T GT09-C200R40303-6T	20m 30m 3m 10m 20m 30m 3m 10m 20m 30m							-	ENT, Are. Nuals	
Y	Yokogawa		GT09-C100R40301-6T GT09-C200R40301-6T GT09-C30R40301-6T GT09-C30R40302-6T GT09-C100R40302-6T GT09-C200R40302-6T GT09-C30R40302-6T GT09-C30R40303-6T GT09-C300R40303-6T GT09-C300R40303-6T GT09-C300R40303-6T	20m 30m 3m 10m 20m 30m 3m 10m 20m 30m 3m							-	MENT, Vare. Anuals	
Y	Yokogawa	Temperature	GT09-C100R40301-6T GT09-C200R40301-6T GT09-C300R40301-6T GT09-C30R40302-6T GT09-C00R40302-6T GT09-C00R40302-6T GT09-C300R40302-6T GT09-C300R40303-6T GT09-C300R40303-6T GT09-C300R40303-6T GT09-C300R40303-6T GT09-C300R40303-6T	20m 30m 3m 10m 20m 30m 3m 10m 20m 30m 3m 10m		Temperature controller: GREEN series					_	IPMENT, TWARE. MANUALS	
Y	Yokogawa	Temperature	GT09-C100R40301-6T GT09-C200R40301-6T GT09-C30R40301-6T GT09-C30R40302-6T GT09-C100R40302-6T GT09-C200R40302-6T GT09-C30R40302-6T GT09-C30R40303-6T GT09-C300R40303-6T GT09-C300R40303-6T GT09-C300R40303-6T	20m 30m 3m 10m 20m 30m 3m 10m 20m 30m 3m							_	UIPMENT, FTWARE. D MANUALS	

11: Items listed above are developed by Mituubiah Electric System & Service Co., LTD., and sold through your local sales office.
12: The applicable connection configuration and cable vary depending on the GOT main unit. For more details, see 4. CONNECTION CONFIGURATION (page 55)⁴ and the GOT1000 Series Connection Manual.
31: The 54-22 cable is less than 10 main unit be TFS-223 cable is than 5° main the used when the connection conversion board for the Handy GOT is used.
4: Con Net Control Contro

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7

GLOSSARY

7. GLOSSARY

This chapter describes glossaries related to the GOT.

7.	GLOSSARY	· · · · · · · · · · · · · · · · · · ·	312

7. GLOSSARY

Item	Description	
CC-Link connection	Connection to the CC-Link network system CC-Link (Control & Communication Link) is a high-performance FA field network. With CC-Link, a large quantity of ON/OFF information as bit data and numerical information as word data can be sent at 10Mbps of the highest communication speed in the industry.	
CC-Link IE controller network connection	Connection to the CC-Link IE controller network system CC-Link IE controller network is a network that realizes a communication speed at 1 Gbps and a maximum 256 Kbyte of the network shared memory.	
CF card	Abbreviation for CompactFlash Card CompactFlash is the memory card standard suggested by SanDisk Corporation. A CF card consists of the flash memory that data are not deleted without energization and the control circuit for the external I/O.	
Direct CPU connection	The GOT can communicate with a programmable controller and each module with connecting the GOT to the interface of the programmable controller CPU module.	
Document Converter	Software for GOT1000 series Software for creating data for the document display function of GT Designer2	
Ethernet connection	Connection with the standard network communication method (Ethernet) with personal computers and workstations	
GOT internal devices	Devices used in the GOT The GOT internal devices include word devices for numerical information and bit devices for ON/OFF information.	
GOT multi-drop connection	Configuration for connecting multiple GOTs to one programmable controller in the serial connection.	
GT Converter2	Software for converting the project data created with the GOT800 series drawing software and with the screen editor software manufactured by Digital Electronics Corporation into data applicable to GT Designer2	
GT Designer2	Software for creating the screen for GOT1000 series and GOT900 series	
GT Simulator2	Software for simulating operations of the GOT-A900 series and GOT1000 series on a personal computer with connecting the GOT to GX Simulator and a programmable controller CPU	
GT SoftGOT1000	Software for using a personal computer as the GOT1000 series	
GT SoftGOT2	Software for using a personal computer as the GOT-A900 series	
MELSECNET/10 connection	Connection to one of the MELSEC (name for the networks of Mitsubishi Electric Corporation) network systems The high-speed communication of 10 Mbps is available.	
MELSECNET/H connection	Connection to the control network system (MELSECNET/H) among manufacturing equipment Data directly related to operations of mechanical equipment can be communicated among control equipment in real time with the high-speed communication and large- capacity link devices.	
MES DB Connection Service	MES is an abbreviation for Manufacturing Execution Systems. The system controls and monitors the status of factories in real time for optimizing production activities. DB Connection Service is software. The MES interface function for the GOT can be used with installing the software on the server computer.	
Programmable controller to programmable controller network	System for the data communication In the MELSECNET/10 network system, multiple programmable controllers can be connected for the data communication.	
STN	STN is an abbreviation for Super Twisted Nematic. The 256-color, monochrome with 16 shades of gray (white/black), and monochrome (white/black) displays are available for GOT1000 series.	
TFT	TFT is an abbreviation for Thin Film Transistor. The 256-color and 65536-color displays are available for GOT1000 series.	
USB memory	Memory that is available when it is connected to the USB interface.	
Intelligent device station	One of the CC-Link system stations The cyclic transmission and transient transmission are available. The GOT connected to CC-Link corresponds to an intelligent device station.	
	(Continued to next page)	

⁽Continued to next page)

Item	Description	
Window screen	Screen displayed on the base screen A created window screen is displayed as an overlap window, a superimpose window a key window, or a dialog window.	
Overlap window	Window that pops up on the base screen The window can be manually moved or closed. Up to two windows can be simultaneously displayed.	
Object	For GOT1000 series, the GOT functions are enabled with setting figures, including switches, lamps, and display panes for the numeric display, and with assigning devices (bit and word) and operation functions to the figures on GT Designer2. Object is a generic term for the targets to be set.	
Option OS	OS to be installed on the GOT for using the option functions For using the option functions, an option function board is separately required.	
Option units	Extension units to be installed on the extension unit interfaces of the GOT excluding the communication units	
Extended function OS	OS to be installed on the GOT for using the extended functions	
Extension unit	Generic term for the option units and communication units	
Screen switching	Function for switching between base screens and window screens of the GOT The screen switching is enabled with screen switching devices (word devices).	
Control station	One of the MELSECNET/10 (programmable controller to programmable controller network) stations The control station controls the whole network. Only one control station is required in a network.	
Key window	Window that pops up on the base screen for input operations, including the numerical input The key window is divided into two types. One is preinstalled in the GOT, and the other is created by the user.	
Standard monitor OS	OS to be installed on the GOT for starting the GOT	
Graphic Operation Terminal	Term for MITSUBISHI human machine interface Graphic Operation Terminal is abbreviated to GOT.	
Computer link connection	nnection The GOT can communicate with a programmable controller and each module via a computer link module connected to a programmable controller.	
Comment	Character string registered by the user on GT Designer2 Comments can be displayed with the multiple object functions when the comments are registered as the basic comment or the comment group in advance.	
Context menu	Menu displaying a list of shortcuts A list of shortcuts that are available for the item currently selected is displayed. When using GT Designer2, right-click the editor screen to display it.	
System monitor	Function of the GOT that devices of a programmable controller CPU and the buffer memory of an intelligent function module can be monitored or tested	
Serial communication module	Module that reads from or writes to programmable controller devices or that realizes the function with connecting a programmable controller and computer (GOT or personal computer) using RS-232 or RS-422 lines for serial communication	
Serial communication	Communication method where data is sent or received one bit by one with a signal line	
Superimpose window	Window superimposed on the base screen When a superimpose window is switched, a part of the base screen can be changed. Up to two windows can be simultaneously displayed.	
Extension cable	Cable for connecting the extension base unit (main base unit) and the GOT for the bus connection between programmable controller and the GOT	
Dialog window	Window displayed on the top of all screens window The window can be used to indicate an error and warning for the system. The window can also be used instead of system messages displayed on the GOT.	
Communication driver	OS to be installed on the GOT for communicating with controllers, including a programmable controller CPU The communication driver dedicated to each connection type (bus connection, direct CPU connection, and others) is required.	

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SOFTWARE

Item	Description	
Communication unit	Extension unit to be installed on the extension interfaces of the GOT for communicating with controllers, including a programmable controller CPU	
Device	Generic term for the memories equipped in the programmable controller CPU The device is for storing data or ON/OFF signal used for sequence programs.	
Coaxial cable	One of the electrical cables The cable is covered with an insulator and the covered cable is shielded for effectively transmitting high-frequency signals.	
Coaxial bus system	Network configuration using the MELSECNET/10 coaxial cable connection The system is called "Coaxial bus system" since the bus type connection is used.	
Bus connection	A bus is a transmission path that enables a programmable controller CPU to communicate with the other modules. The bus connection is that the GOT is connected to the bus.	
Fiber-optic cable	Cable for transmitting optical signals The programmable controller is activated by an electrical signal. The electrical signal of ON/OFF is converted to the optical signal to send the optical signal via a fiber-optic cable. When receiving the signal, the signal is converted to the electrical signal.	
Optical loop system	Network configuration using the MELSECNET/10 fiber-optic cable connection The system is called "Optical loop system" since the loop (ring) type connection is used.	
Bit device	One of the devices of the programmable controller The device that transmits information by one bit	
Parts	Figures registered as parts Parts are used for the parts display and parts movement. Figures that can be registered as parts include character and image data.	
Flash memory	Memory that stored data are not deleted without energization	
Project (file)	A group of all the information to be displayed on a GOT A project consists of the screen information, parts information, and others. The information (project) is created as one file.	
Base screen	The basic screen for the GOT screen display	
Base unit	Module where a programmable controller CPU module, power supply module, I/O module, or intelligent function module is installed	
Master station	A programmable controller CPU station where a master module controlling the CC- Link system and data link is installed	
Memory card	Screen data can be stored in a memory card with a GOT, and the data can be used with the other GOTs. The memory card includes the CF card.	
Motion controller CPU	A CPU module that enables the positioning control of multiple axes easier and with high-speed and high-accuracy The processing load is distributed by assigning the complicated servo control to the motion CPU module and other machine and information controls to the programmable controller CPU module.	
List editor	Function for changing a sequence program in the list program format (instruction word) with the GOT Programs can be edited on the scene immediately.	
Remote I/O station	One of the remote I/O network system stations The remote I/O station is a station at the remote side that sends and receives signals with controllers at the machine side by the command from the master station in a remote place.	
Report screen	Screen for creating formats to be output with the report function	
Local station	One of the CC-Link system stations The local station is a programmable controller CPU station with a local module is installed.	
Word device	One of the devices of the programmable controller The device that transmits information by 16 bits (word). The GOT can treat the word device with 16 bits or 32 bits.	

<u>WARRANTY</u>

Please confirm the following product warranty details before using this product.

Gratis Warranty Term and Gratis Warranty Range

If any faults or defects (hereinafter "Failure") found to be the responsibility of Mitsubishi occurs during use of the product within the gratis warranty term, the product shall be repaired at no cost via the sales representative or Mitsubishi Service Company.

However, if repairs are required onsite at domestic or overseas location, expenses to send an engineer will be solely at the customer's discretion. Mitsubishi shall not be held responsible for any re-commissioning, maintenance, or testing on-site that involves replacement of the failed module.

Gratis Warranty Term

The gratis warranty term of the product shall be for thirty-six (36) months after the date of purchase or delivery to a designated place.

Note that after manufacture and shipment from Mitsubishi, the maximum distribution period shall be six (6) months, and the longest gratis warranty term after manufacturing shall be fortytwo (42) months. The gratis warranty term of repair parts shall not exceed the gratis warranty term before repairs.

Gratis Warranty Range

- (1) The customer shall be responsible for the primary failure diagnosis unless otherwise specified. If requested by the customer, Mitsubishi Electric Corporation or its representative firm may carry out the primary failure diagnosis at the customer's expense. The primary failure diagnosis will, however, be free of charge should the cause of failure be attributable to Mitsubishi Electric Corporation.
- (2) The range shall be limited to normal use within the usage state, usage methods, usage environment, etc. which follow the conditions, precautions, etc. given in the instruction manual, user's manual, caution labels on the product, etc.
- (3) Even within the gratis warranty term, repairs shall be charged for in the following cases.
 - ① Failure occurring from inappropriate storage or handling, carelessness or negligence by the user. Failure caused by the user's hardware or software design.
 - ② Failure caused by unapproved modifications, etc., to the product by the user.
 - ③ When the Mitsubishi product is assembled into a user's device, Failure that could have been avoided if functions or structures, judged as necessary in the legal safety measures the user's device is subject to or as necessary by industry standards, had been provided.
 - ④ Failure that could have been avoided if consumable parts designated in the user's manual etc. had been correctly serviced or replaced.
 - ⑤ Replacing consumable parts such as the battery, backlight and fuses.
 - ③ Failure caused by external irresistible forces such as fires or abnormal voltages, and Failure caused by force majeure such as earthquakes, lightning, wind and water damage.
 - ⑦ Failure caused by reasons unpredictable by scientific technology standards at time of shipment from Mitsubishi.
 - ⑧ Any other failure found not to be the responsibility of Mitsubishi or that admitted not to be so by the user.

Onerous repair term after discontinuation of production

- (1) Mitsubishi shall accept onerous product repairs for seven (7) years after production of the product is discontinued. Discontinuation of production shall be notified with Mitsubishi Technical Bulletins, etc.
- (2) Product supply (including repair parts) is not available after production is discontinued.

Overseas service

Overseas, repairs shall be accepted by Mitsubishi's local overseas FA Center. Note that the repair conditions at each FA Center may differ.

Exclusion of loss in opportunity and secondary loss from warranty liability

Regardless of the gratis warranty term, Mitsubishi shall not be liable for compensation to damages caused by any cause found not to be the responsibility of Mitsubishi, loss in opportunity, lost profits incurred to the user by Failures of Mitsubishi products, special damages and secondary damages whether foreseeable or not, compensation for accidents, and compensation for damages to products other than Mitsubishi products, replacement by the user, maintenance of on-site equipment, start-up test run and other tasks.

Changes in product specifications

The specifications given in the catalogs, manuals or technical documents are subject to change without prior notice.

Product application

- (1) In using the Mitsubishi graphic operation terminal, the usage conditions shall be that the application will not lead to a major accident even if any problem or fault should occur in the graphic operation terminal device, and that backup and fail-safe functions are systematically provided outside of the device for any problem or fault.
- (2) The Mitsubishi graphic operation terminal has been designed and manufactured for applications in general industries, etc.

Thus, applications in which the public could be affected such as in nuclear power plants and other power plants operated by respective power companies, and applications in which a special quality assurance system is required, such as for Railway companies or Public service purposes shall be excluded from the graphic operation terminal applications.

In addition, applications in which human life or property that could be greatly affected, such as in aircraft, medical applications, incineration and fuel devices, manned transportation equipment for recreation and amusement, and safety devices, shall also be excluded from the graphic operation terminal range of applications.

However, in certain cases, some applications may be possible, providing the user consults the local Mitsubishi representative outlining the special requirements of the project, and providing that all parties concerned agree to the special circumstances, solely at our discretion. In some of these cases, however, Mitsubishi Electric Corporation may consider the possibility of an application, provided that the customer notifies Mitsubishi Electric Corporation of the intention, the application is clearly defined and any special quality is not required.

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Mitsubishi Graphic Operation Terminal

Precautions for Choosing the Products

This catalog explains the typical features and functions of the GOT1000 series HMI and does not provide restrictions and other information on usage and module combinations. When using the products, always read the user's manuals of the products.

Mitsubishi will not be held liable for damage caused by factors found not to be the cause of Mitsubishi; machine damage or lost profits caused by faults in the Mitsubishi products; damage, secondary damage, accident compensation caused by special factors unpredictable by Mitsubishi; damages to products other than Mitsubishi products; and to other duties.

▲ For safe use

To use the products given in this catalog property, always read the related manuals before starting to use them.

- The products within this catalog have been manufactured as general-purpose parts for general industries and have not been designed or manufactured to be incorporated into any devices or systems used in purpose related to human life.
- Before using any product for special purposes such as nuclear power, electric power, aerospace, medicine or passenger movement vehicles, consult with Mitsubishi
- The products within this catalog have been manufactured under strict quality control. However, when installing the product where major accidents or losses could occur if the product fails, instal appropriate backup or failsafe functions in the system.

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