MITSUBISHI ELECTRIC
Changes for the Better

FACTORY AUTOMATION

e-F@ctory

Graphic Operation Terminal GOT2000 Series Handy GOT

5.7"	**GT2505HS-VTBD**	NEW
6.5"	**GT2506HS-VTBD**	

HMI functionality in the palm of your hand

GOT2000 Handy
Graphic Operation Terminal

GT25 Handy GOT

Compact, lightweight, easy to handle

NEW 5.7"

Weight
0.79 kg
(1.7 lb)

VGA 640×480	TFT 65536 colors	DC power supply

GT2505HS-VTBD

External connection interface *	
Ethernet	CC-Link IE Field Basic
RS-232	RS-422

* For the connection method with industrial devices, refer to page 10.

Wall-mounting attachment for Handy GOT `GT2505HS`

Operating in hand
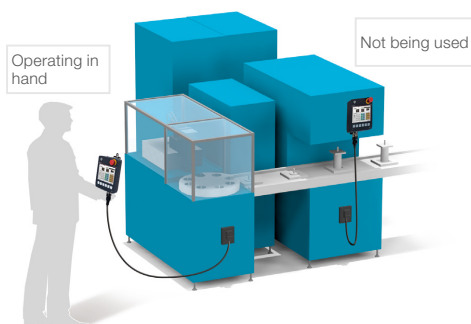
Not being used

The wall-mounting attachment for handy GOT is useful to place GT2505 Handy GOT while it is not being used.

Firmly held with four posts, the GOT can be stably placed on the attachment. When you use the GOT, you can quickly remove it and start operation.

Wall-mounting attachment for Handy GOT

GT14H-50ATT

With portable handy GOT, you can operate the machine while viewing it

Easy to see, easy to operate

6.5"

VGA 640×480	TFT 65536 colors	DC power supply

GT2506HS-VTBD

External connection interface *	
Ethernet	CC-Link IE Field Basic
RS-232	RS-422/485

* For the connection method with industrial devices, refer to page 11.

Weight
1.2 kg
(2.6 lb)

Pursuing usability of a single-hand operation

Ergonomics design `GT2506HS`

With the design based on the human engineering, GT2506 Handy GOT can be held at a natural wrist angle so that the screen can easily be viewed from the front side. In addition, a rounded and easy-to-hold grip is adopted.
* It is designed to be held by left hand (operated by right hand).
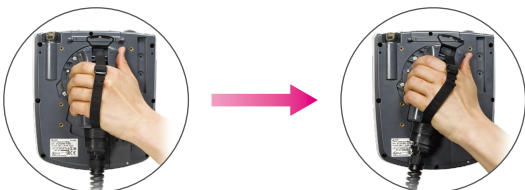
To operate or stop the machine

LED operation switches `GT2506HS`

LEDs (green) for confirming the operation are installed to push button switches. Operation condition can be recognized at a glance with these LED lamps. In addition, button names can be freely changed by using a name sheet.

An operation switch name sheet can be inserted

GT25 Handy GOT components

GT2505HS-VTBD 5.7"

2 Keylock switch (2-position switch)

1 Emergency stop switch

7 SD memory card interface

8 USB interface (host)

9 USB interface (device)

VGA display

Hook

POWER LED

3 Operation switches

LED lamp for grip switch

4 External connection cable

6 Hand strap

5 Grip switch

Easy connection/disconnection by one-touch operation

4 External connection cable

The GT25 Handy GOT and external connection cable can be easily connected/disconnected by a single operation. No tool is required.

Safety in case of an accident

5 Grip switch

The three-position (OFF-ON-OFF) type deadman switch is adopted as an interlock for preventing operation mistakes and prohibiting operation of a machine. The switch can directly control external equipment to give immediate stop commands to a machine.
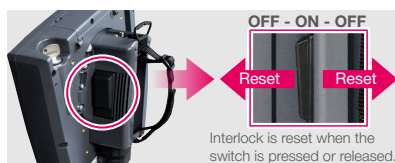
Support for a single-hand operation

6 Hand strap

Holding the GT25 Handy GOT putting your hand under the strap on the back side prevents the device from falling. This strap ensures safety of your long time working.

OFF - ON - OFF

Reset   Reset

Interlock is reset when the switch is pressed or released.

Improve device safety

1 Emergency stop switch

An emergency stop switch is used to stop the operation of devices in an emergency. It utilizes a "normally closed contact" for safety. An emergency stop switch guard cover (option) is also available to prevent accidental operation.

Emergency stop switch guard cover installed

Ensure security

2 Keylock switch (2-position switch)

Operators can be restricted depending on the operation, such as switching manual/automatic operation or selecting the modes. Once the key is pulled out, others cannot operate it.

No hard switches needed on the operation panel

3 Operation switches/ LED operation switches

Hard switches on the operation panel are not necessary. The switches can be used to operate and stop machines.

GT2505HS   GT2506HS

Auto   Manual   Origin

Operation switches   LED operation switches

GT2506HS-VTBD 6.5"

1 Emergency stop switch

VGA display

POWER LED

3 LED operation switches

7 SD memory card interface

8 USB interface (host)

9 USB interface (device)

2 Keylock switch (2-position switch)

Hook

LED lamp for grip switch

4 External connection cable

6 Hand strap

5 Grip switch

Useful for large capacity data storage

7 SD memory card interface

In addition to the built-in memory, a large amount of data such as document display data, logging data, alarm data, and backup/restoration data can be stored by inserting an SD memory card (option).

System application, project data, recipe data, manuals, alarm data, and logging data, etc.

SD Card

SD memory card

Useful for data collection and setting up multiple GOTs

8 USB interface (host)

By connecting a USB memory directly to GT25 Handy GOT, OS and project data of the GOT can be updated. It is useful for reading the data logged by the GOT and analyzing it on a personal computer.

Data transfer

Transfer

USB memory

Transfer
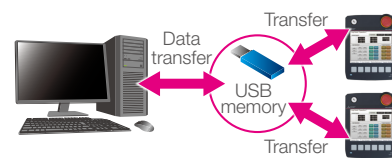
As the interface with various devices

9 USB interface (device)

Without opening the electrical cabinet and by only connecting a personal computer to GT25 Handy GOT, you can use the GOT as a transparent gateway to enable programming, startup, and adjustment of industrial devices*.

* The GT25 Handy GOT can be connected to programmable controllers, servos, inverters, and robots manufactured by Mitsubishi Electric.
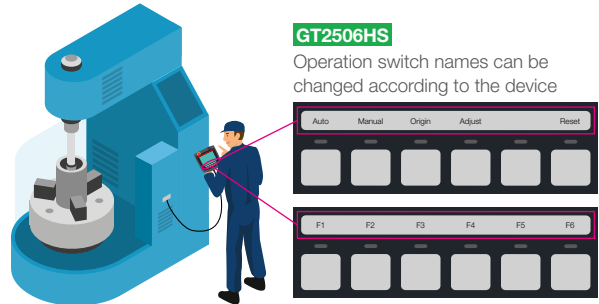
GX Works3, etc.
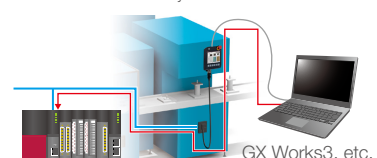
GT25 Handy GOT usage

As the operation terminal dedicated to the device

- The operation screen can be designed as you like using HMI/GOT Screen Design Software GT Works3. Various sample screens are available and can be customized.

- The operation switch name can be freely changed. The switches quickly become the special ones for your device. **GT2506HS**

GT2506HS
Operation switch names can be changed according to the device

Auto	Manual	Origin	Adjust		Reset

F1	F2	F3	F4	F5	F6

For the area with no space to install the operation panel

- Since the GT25 Handy GOT is removable, you can connect it only when needed.

- The installation space for the control panel and operation panel can be saved.

- The installation space can be minimized.
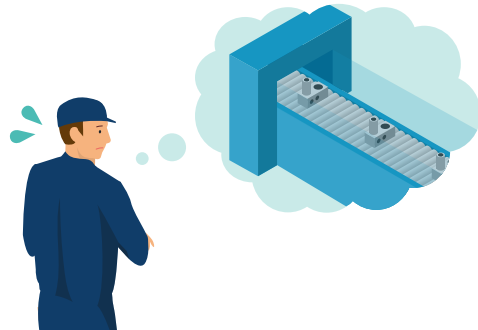
Suitable for the setup, adjustment, and changeover of the device

- You can operate the GT25 Handy GOT standing near the device.

- With the connector conversion box (option), you can set the device while checking it from several directions by connecting/disconnecting the cable.

OK!   Fine!

As the operation terminal for various industrial devices

- The GT25 Handy GOT can be connected to various industrial devices that you want to monitor.

- With the connector conversion box (option), you can operate multiple devices with the GT25 Handy GOT only by connecting/disconnecting the cable.
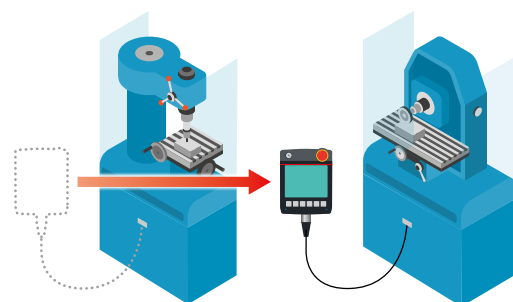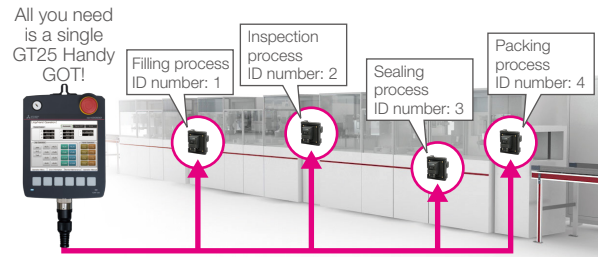
Remove and use with other devices!

What is realized with GT25 Handy GOT

A single GT25 Handy GOT can be used for several processes

With the connector conversion box (GT16H-CNB-42S), you can switch devices to operate according to the ID number of the connector conversion box.

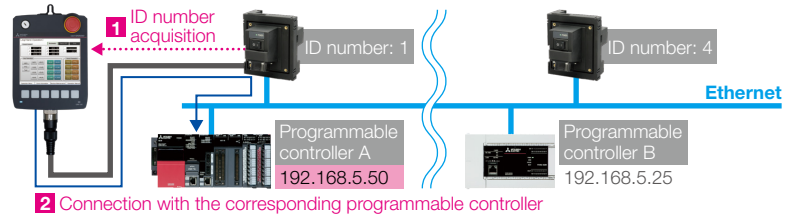This function is useful when performing maintenance on several processes in a single system.

All you need is a single GT25 Handy GOT!

Filling process ID number: 1
Inspection process ID number: 2
Sealing process ID number: 3
Packing process ID number: 4

ID number recognition function

Set the ID to each connector conversion box and connect the GT25 Handy GOT to a specific programmable controller.

1 When the connector conversion box and the cable are connected, the ID number is acquired.

**2** The GT25 Handy GOT is connected to the programmable controller which has the IP address set to the acquired ID.

ID	IP address
1	192.168.5.50
⋮	⋮
4	192.168.5.25

1 ID number acquisition

ID number: 1

ID number: 4

Ethernet

Programmable controller A
192.168.5.50

Programmable controller B
192.168.5.25

2 Connection with the corresponding programmable controller

Effective utilization of existing systems

When replacing the GT14 Handy GOT with the GT2505 Handy GOT, or the GT16 Handy GOT with the GT2506 Handy GOT, you can use the cables and options as they are.

The switch positions and appearance are inherited from the former model. Various functions of the GOT2000 Series are available with keeping their operational feeling.

GT2505 Handy GOT

GT14 Handy GOT

Programmable controller

Connector conversion box   Programmable controller
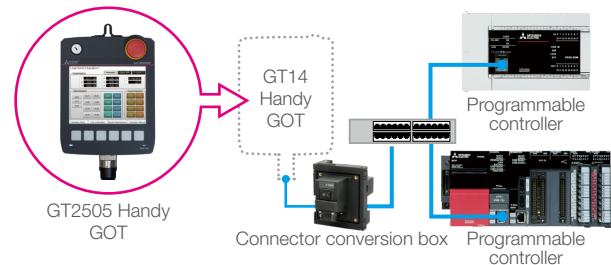
Operation style according to the usage

Holding in hand

Lightweight and compact, held by a single hand! The hand strap on the back side supports the single hand operation!

Back side

Put a hand under the strap to prevent falling!

Hanging on a wall

There are two ways to place GT25 Handy GOT when it is not being used.

1) Easily hang it with a hook

2) Stably hang it with a wall-mounting attachment
GT2505HS

GT14H-50ATT

Recommended functions of GT25 Handy GOT

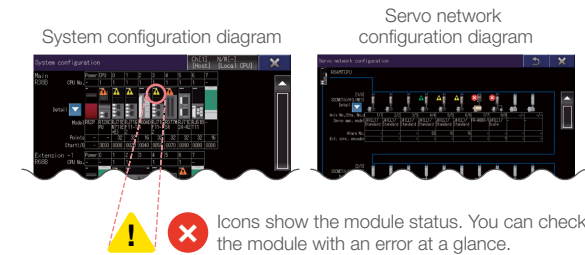## Sequence program monitor (Ladder)/ sequence program monitor (iQ-R ladder)

The GOT can monitor and edit a sequence program in a controller in the ladder format, and also can change current values of devices. When an error occurs, monitor the ladder program and identify the cause of error. There is no need for a personal computer on the production floor.

Change the device number from X10 to X20.

Edit
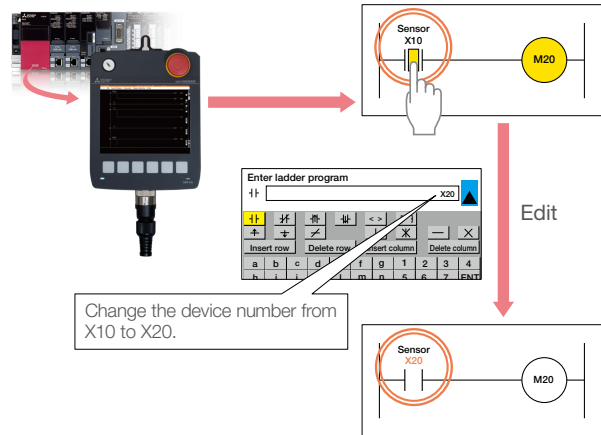
System launcher/ System launcher (servo network)

A graphical configuration diagram of programmable controller and servo systems indicates module statuses.

System configuration diagram

Servo network configuration diagram

Icons show the module status. You can check the module with an error at a glance.

Operation log

The GOT records all the operations performed by operators. Checking the recorded operation history helps you to identify and analyze the cause of the error occurred due to improper operations, leading to making improvements, preventing reoccurrence, and enhancing traceability.

For more details

Check the brief information of the log in a list

Check the detailed information of the log
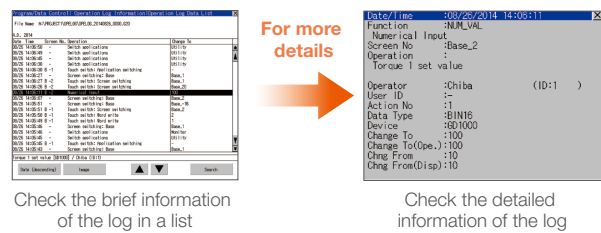
Drive recorder

The GOT can be used to display the screen equivalent to the drive recorder of MR Configurator2. Easily check the servo data (motor current, position command, etc.) on the GOT without using a personal computer.

Store the data on the GOT's SD memory card or USB memory, and check and analyze in your office.

Drive recorder information list screen

Graph waveform screen
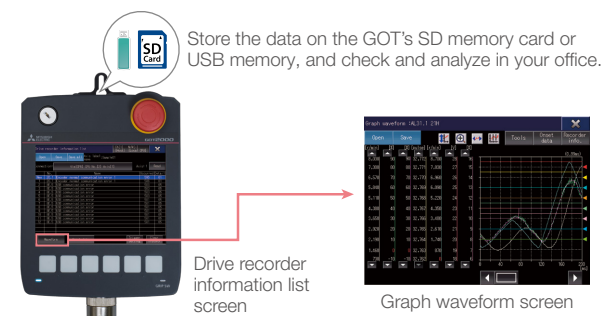
Function comparison of GT25 Handy GOT

●: Supported　—: Not supported

Item				GT2505HS (NEW)	GT1455HS	GT2506HS	GT1665HS
Hardware specifications	Screen size			5.7"	5.7"	6.5"	6.5"
	Resolution			VGA	QVGA	VGA	VGA
	Weight (GOT main unit only)			0.79(1.7) kg(lb)	0.79(1.7) kg(lb)	1.2(2.6) kg(lb)	1.2(2.6) kg(lb)
	Memory	Memory for storage (ROM)/Memory for operation (RAM)		32 MB/80 MB	9 MB/—	32 MB/80 MB	15 MB/—
		SRAM user area/D drive		●/—	●/●	●/—	●/—
	Interface	External interface connector		Round 32 pins (male)	Round 32 pins (male)	Square 42 pins (male)	Square 42 pins (male)
		Serial	Connector conversion box	RS-232 [*1] RS-422 [*1]	RS-232 [*1] RS-422 [*1]	RS-232 [*2] RS-422/485 [*2]	RS-232 [*2] RS-422/485 [*2]
		Ethernet	Connector conversion box	● [*1]	● [*1]	●	●
		USB host/USB device		●/●	●/●	●/●	●/●
		Memory card		SD	SD	SD	CF
	Operation switches/LED operation switches			●/—	●/—	—/●	—/●
	Operation switch name sheet			—	—	●	●
	Grip angle adjustment			—	—	●	●
	Hook for hanging on walls			●	●	●	●
	Wall-mounting attachment (option)			●	●	—	—
Functions	Logging	(Memory)	(Battery)	●	●	●	●
	Recipe	(Memory)	(Battery)	●	●	●	●
	Device data transfer			●	●	●	●
	Hard copy	File output	Memory	●	●	●	●
		Serial printer output		—	—	—	—
		PictBridge printer output	Unit	—	—	—	—
	GOT Mobile function	License	(Memory)	●	—	●	—
	VNC server function	License		●	●	●	●
	Remote personal computer operation function (Ethernet)	License		●	—	●	●
	SoftGOT-GOT link function	License key		●	—	●	●
	MES interface function	License	(Memory)	●	—	●	—
	Operator authentication function/sub administrator function	(Memory)		●/●	●/—	●/●	●/—
	Operation log function	Memory		●	—	●	●
	FA transparent function/Data transfer via a programmable controller			●/●	●/—	●/●	●/—
	Multi-channel function			● [*3] 4 channels (No units can be mounted)	● [*3] 2 channels (No units can be mounted)	● 4 channels (No units can be mounted)	● 4 channels (No units can be mounted)
	Station No. switching			●	●	●	●
	GOT network interaction			●	—	●	—
	Security key authentication function			●	—	●	—
	IP filter function			●	—	●	—
	Backup/Restoration	Memory		●	●	●	●
	Document display	Memory		●	—	●	●
	Device monitor			●	●	●	●
	Sequence program monitor (iQ-R ladder)	Memory		●	—	●	—
	Sequence program monitor (Ladder)	Memory		●	—	●	●
	Sequence program monitor (SFC)	Memory		●	—	●	●
	Network monitor			●	—	●	●
	CC-Link IE Field Network diagnostics			●	—	●	—
	Intelligent module monitor			●	—	●	●
	Drive recorder	(Memory)		●	—	●	—
	Servo amplifier monitor			●	—	●	●
	R motion monitor			●	—	●	—
	Q motion monitor			●	—	●	●
	CNC monitor 2			Supported soon	—	●	—
	Log viewer	(Memory)		●	—	●	●
	FX list editor			●	●	●	●
	FX ladder monitor			●	—	●	●
	System launcher/System launcher (servo network)			●	—	●	—

License	License required	License key	License key required	Connector conversion box	Connector conversion box required	Unit	Unit required

Memory	SD memory card or USB memory required	Battery	Battery required	( )	Required depending on conditions of use

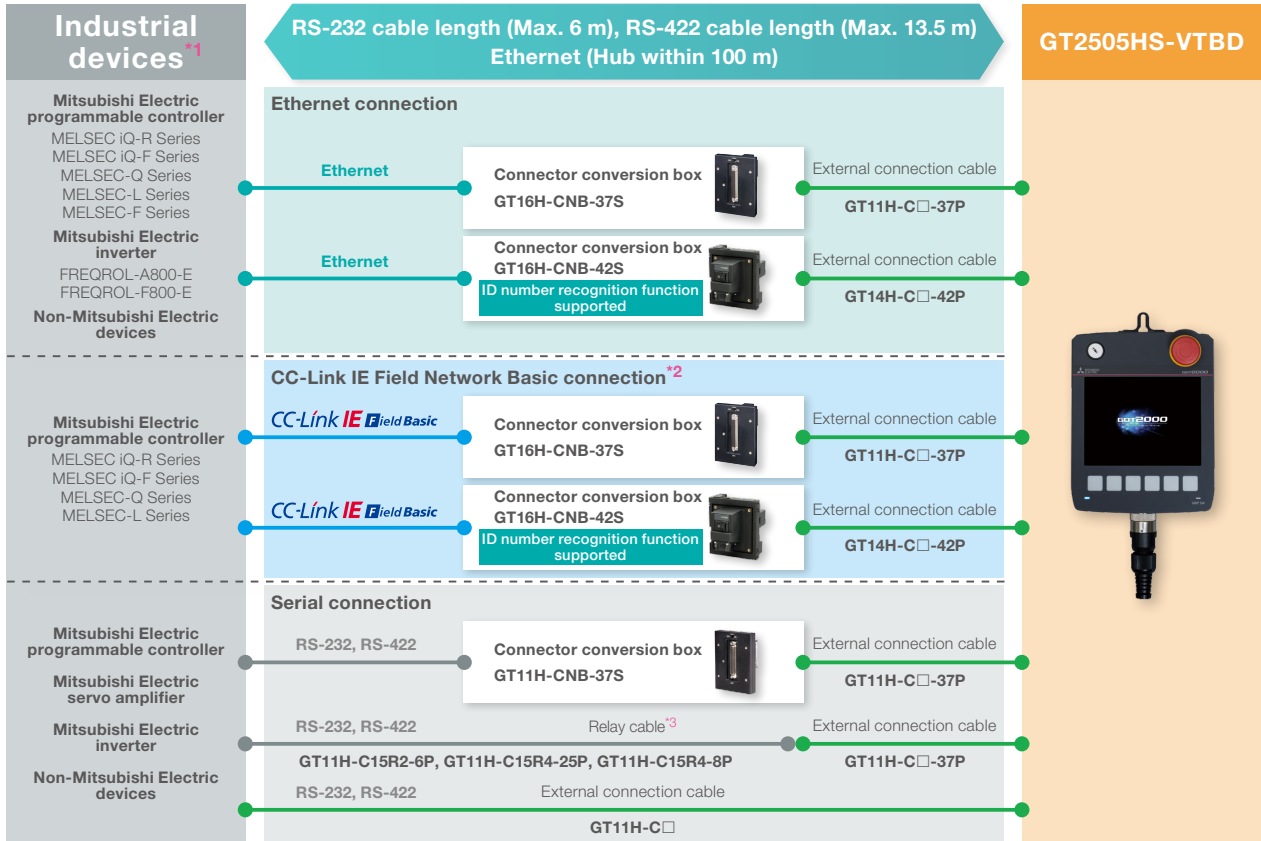*1　Select one channel from either of RS-232, RS-422, or Ethernet.
*2　Select one channel from either of RS-232 or RS-422/485.
*3　The multi-channel function supports Ethernet connection only.

Connecting devices, expanding usage

Example of connecting cables (option) between GT2505 Handy GOT and industrial devices

Select an optimum connection method to suit your facility. You can use the GT14 Handy GOT cables as they are.
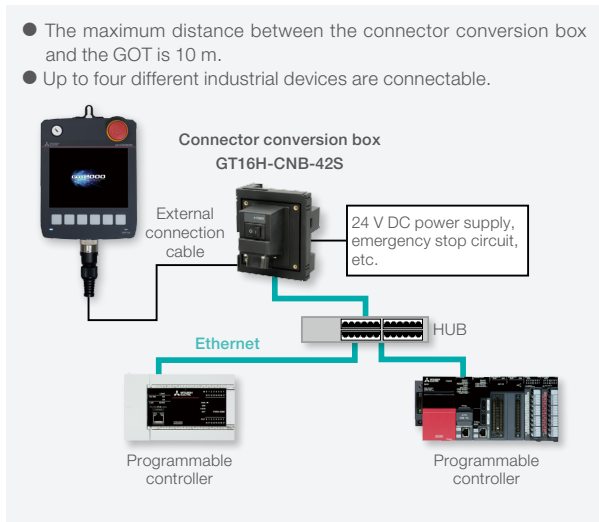
Industrial devices*1	RS-232 cable length (Max. 6 m), RS-422 cable length (Max. 13.5 m) Ethernet (Hub within 100 m)		GT2505HS-VTBD

Ethernet connection

Mitsubishi Electric programmable controller MELSEC iQ-R Series MELSEC iQ-F Series MELSEC-Q Series MELSEC-L Series MELSEC-F Series	Ethernet	Connector conversion box GT16H-CNB-37S	External connection cable GT11H-C☐-37P
Mitsubishi Electric inverter FREQROL-A800-E FREQROL-F800-E **Non-Mitsubishi Electric devices**	Ethernet	Connector conversion box GT16H-CNB-42S ID number recognition function supported	External connection cable GT14H-C☐-42P

CC-Link IE Field Network Basic connection*2

Mitsubishi Electric programmable controller MELSEC iQ-R Series MELSEC iQ-F Series MELSEC-Q Series MELSEC-L Series	CC-Link IE Field Basic	Connector conversion box GT16H-CNB-37S	External connection cable GT11H-C☐-37P
	CC-Link IE Field Basic	Connector conversion box GT16H-CNB-42S ID number recognition function supported	External connection cable GT14H-C☐-42P

Serial connection

Mitsubishi Electric programmable controller	RS-232, RS-422	Connector conversion box GT11H-CNB-37S	External connection cable GT11H-C☐-37P
Mitsubishi Electric servo amplifier **Mitsubishi Electric inverter**	RS-232, RS-422	Relay cable*3 GT11H-C15R2-6P, GT11H-C15R4-25P, GT11H-C15R4-8P	External connection cable GT11H-C☐-37P
Non-Mitsubishi Electric devices	RS-232, RS-422	External connection cable GT11H-C☐	

*1   Representative devices are listed in the above example. For the details of connectable devices, please refer to the GOT2000 Series Handy GOT Connection Manual For GT Works3 Version1 (SH(NA)-081867ENG).

*2   GT25 Handy GOT can be connected to CC-Link IE Field Network Basic slave stations via the master station.

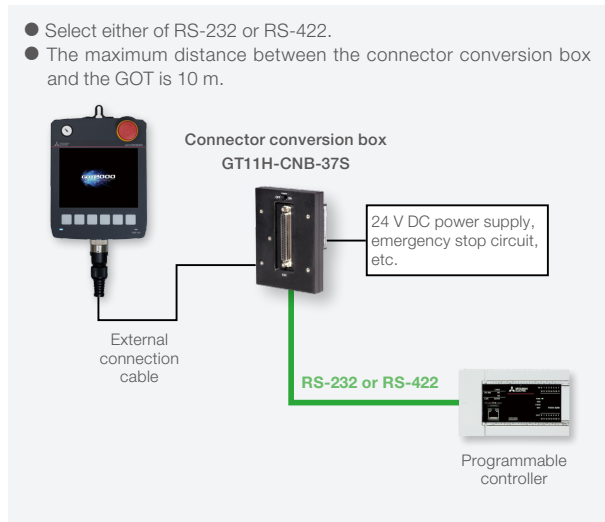*3   For the devices that can be used with each cable, please refer to the product list on page 14.

System configuration example of GT2505 Handy GOT*

* GT2505HS-VTBD cannot use the Ethernet connection and serial connection simultaneously.
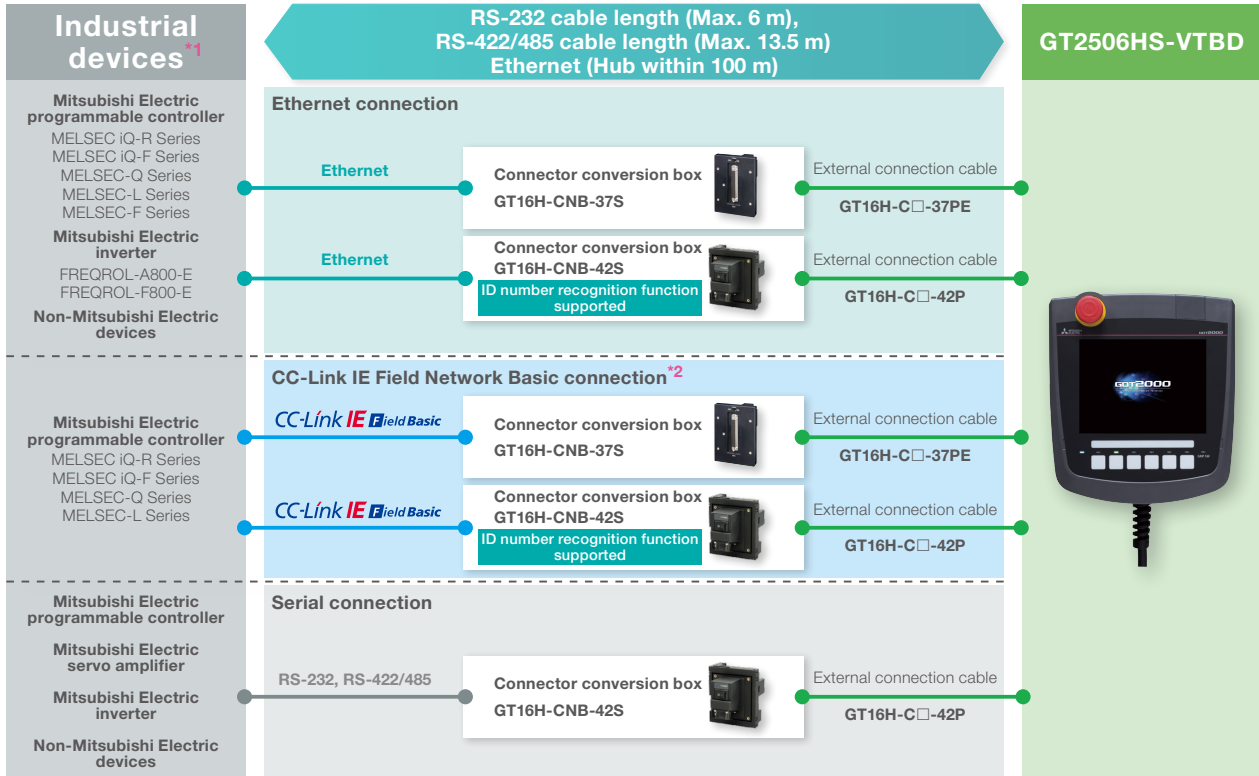
Ethernet connection	Serial connection

● The maximum distance between the connector conversion box and the GOT is 10 m.
● Up to four different industrial devices are connectable.

Connector conversion box GT16H-CNB-42S

External connection cable

24 V DC power supply, emergency stop circuit, etc.

Ethernet

HUB

Programmable controller

Programmable controller

● Select either of RS-232 or RS-422.
● The maximum distance between the connector conversion box and the GOT is 10 m.

Connector conversion box GT11H-CNB-37S

24 V DC power supply, emergency stop circuit, etc.

External connection cable

RS-232 or RS-422

Programmable controller

Example of connecting cables (option) between GT2506 Handy GOT and industrial devices

Select an optimum connection method to suit your facility. You can use the GT16 Handy GOT cables as they are.
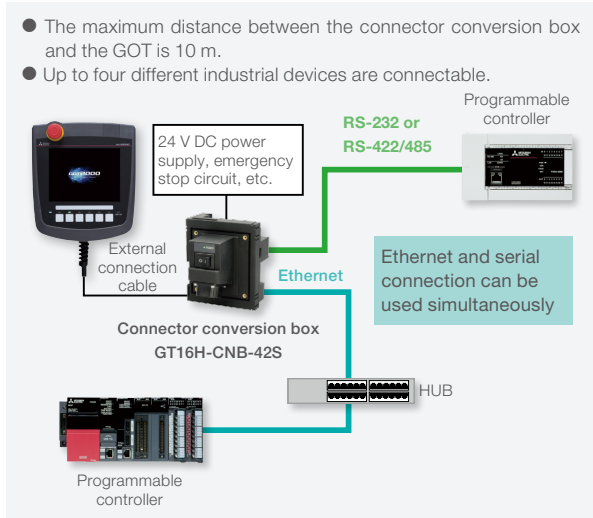
Industrial devices[1]	RS-232 cable length (Max. 6 m), RS-422/485 cable length (Max. 13.5 m) Ethernet (Hub within 100 m)		GT2506HS-VTBD

Mitsubishi Electric programmable controller
MELSEC iQ-R Series
MELSEC iQ-F Series
MELSEC-Q Series
MELSEC-L Series
MELSEC-F Series

Mitsubishi Electric inverter
FREQROL-A800-E
FREQROL-F800-E

Non-Mitsubishi Electric devices

Ethernet connection

Ethernet → Connector conversion box **GT16H-CNB-37S** → External connection cable **GT16H-C□-37PE**

Ethernet → Connector conversion box **GT16H-CNB-42S** ID number recognition function supported → External connection cable **GT16H-C□-42P**

Mitsubishi Electric programmable controller
MELSEC iQ-R Series
MELSEC iQ-F Series
MELSEC-Q Series
MELSEC-L Series

CC-Link IE Field Network Basic connection[2]

CC-Link IE Field Basic → Connector conversion box **GT16H-CNB-37S** → External connection cable **GT16H-C□-37PE**

CC-Link IE Field Basic → Connector conversion box **GT16H-CNB-42S** ID number recognition function supported → External connection cable **GT16H-C□-42P**

Mitsubishi Electric programmable controller

Mitsubishi Electric servo amplifier

Mitsubishi Electric inverter

Non-Mitsubishi Electric devices

Serial connection

RS-232, RS-422/485 → Connector conversion box **GT16H-CNB-42S** → External connection cable **GT16H-C□-42P**

*1   Representative devices are listed in the above example. For the details of connectable devices, please refer to the GOT2000 Series Handy GOT Connection Manual For GT Works3 Version1 (SH(NA)-081867ENG).

*2   GT25 Handy GOT can be connected to CC-Link IE Field Network Basic slave stations via the master station.

System configuration example of GT2506 Handy GOT

Ethernet connection	Serial connection

- The maximum distance between the connector conversion box and the GOT is 10 m.
- Up to four different industrial devices are connectable.

24 V DC power supply, emergency stop circuit, etc.

RS-232 or RS-422/485

Programmable controller

External connection cable

Ethernet

Ethernet and serial connection can be used simultaneously

Connector conversion box **GT16H-CNB-42S**

HUB

Programmable controller

■Connector conversion box

GT16H-CNB-42S — ID number recognition function supported

Required to connect the GT2505 Handy GOT by Ethernet connection.
Required to connect the GT2506 Handy GOT by serial or Ethernet connection.

GT16H-CNB-37S

Required to connect the GT2505 Handy GOT or GT2506 Handy GOT by Ethernet connection.

GT11H-CNB-37S

Required to connect the GT2505 Handy GOT by serial connection.

Product specifications

■ General specifications

Item	Specifications				
Operating ambient temperature	0°C to 40°C				
Storage ambient temperature	-20°C to 60°C				
Operating ambient humidity	10% RH to 90% RH, non-condensing				
Storage ambient humidity	10% RH to 90% RH, non-condensing				
Vibration resistance	Compliant with JIS B 3502 and IEC 61131-2		Frequency	Acceleration	Half amplitude	Sweep count
		Under intermittent vibration	5 to 8.4 Hz	—	3.5 mm	10 times in each of X, Y, or Z directions
			8.4 to 150 Hz	9.8 m/s²	—	
		Under continuous vibration	5 to 8.4 Hz	—	1.75 mm	—
			8.4 to 150 Hz	4.9 m/s²	—	
Shock resistance	Compliant with JIS B 3502 and IEC 61131-2 (147 m/s² (15G), 3 times in each X, Y, or Z direction)				
Operating atmosphere	No oily fumes, corrosive gas, flammable gas, excessive conductive dust, and direct sunlight (as well as when in storage)				
Operating altitude [*1]	2000 m or less				
Overvoltage category [*2]	II or less				
Pollution degree [*3]	2 or less				
Cooling method	Self-cooling				
Grounding	Grounding with a ground resistance of 100 Ω or less by using a ground cable that has a cross-sectional area of 2 mm² or more. If impossible, connect the ground cable to the control panel.				

*1 Do not use or store the GOT under the atmospheric pressure higher than that at an altitude of 0 m. Doing so may cause a malfunction.

*2 This indicates the section of the power supply to which the equipment is assumed to be connected between the public electrical power distribution network and the machinery within the premises. Category II applies to equipment that is supplied with power from fixed facilities. The surge withstand voltage is 2500 V for equipment with ratings up to 300 V.

*3 This indicates the occurrence rate of conductive material in an environment where a device is used. Pollution degree 2 indicates an environment where only non-conductive pollution occurs normally and a temporary conductivity caused by condensation shall be expected depending on the conditions.

For the status of conforming to various standards and laws (CE, UL/cUL, EAC, and KC), please refer to the Mitsubishi Electric Factory Automation Global website (**www.MitsubishiElectric.com/fa/**).

Operate and store the GOT in environments without direct sunlight, high temperature, dust, humidity, and vibrations.

■ Performance specifications

Item		Specifications	
		GT2505HS-VTBD	GT2506HS-VTBD
Display section [*1*2]	Display device	TFT color LCD	
	Screen size	5.7"	6.5"
	Resolution	VGA: 640 × 480 dots	
	Display size	115.2(4.54) (W) × 86.4(3.40) (H) mm(inch)	132.5(5.22) (W) × 99.4(3.91) (H) mm(inch)
	Number of displayed characters	16-dot standard font: 40 characters × 30 lines (two-byte characters) 12-dot standard font: 53 characters × 40 lines (two-byte characters)	
	Display color	65536 colors	
	Brightness adjustment	32 levels	
	Backlight	LED (not replaceable)	
	Backlight life [*4]	Approx. 60000 h (operating ambient temperature: 25°C, display intensity: 50%)	Approx. 40000 h (operating ambient temperature: 25°C, display intensity: 50%)
Touch panel [*3*10]	Type	Analog resistive film	
	Key size	Minimum 2 × 2 dots [*7] (per key)	
	Simultaneous press	Not available [*8] (Only 1 point can be touched.)	
	Life	1 million touches or more (Operating force: 0.98 N or less)	
User memory	User memory capacity	Memory for storage (ROM) [*11]: 32 MB Memory for operation (RAM): 80 MB	
	Life (Number of write times)	100000 times	
Built-in clock precision		±90 seconds/month (ambient temperature: 25°C)	
Battery		GT11-50BAT lithium battery	GT15-BAT lithium battery
	Data to be backed up	SRAM data, clock data, system status log data	
	Life	Approx. 5 years (Ambient temperature: 25°C)	
Built-in interface	RS-232	RS-232 or RS-422, 1 channel (Select one channel, either of RS-232, RS-422, or Ethernet. Ethernet is set as the factory default.)	RS-232 or RS-422/485, 1 channel (Select one channel. RS-422/485 is set as the factory default.)
	RS-422/485 [*5]	Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: Round 32 pins (male)	Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: Square 42 pins (male)
	Ethernet	1 channel (Select one channel, either of RS-232, RS-422, or Ethernet. Ethernet is set as the factory default.) Data transfer method: 100BASE-TX, 10BASE-T Connector shape: Round 32 pins (male)	1 channel Data transfer method: 100BASE-TX, 10BASE-T Connector shape: Square 42 pins (male)
	USB (host)	1 channel (top face) USB version: USB 2.0 (High-Speed 480 Mbps) Connector shape: USB-A	
	USB (device)	1 channel (top face) USB version: USB 2.0 (High-Speed 480 Mbps) Connector shape: USB Mini-B	
	SD memory card [*11]	1 channel, SDHC compliant (maximum 32 GB)	
Buzzer output		Single tone (tone and tone length adjustable)	
POWER LED		2 colors (blue and orange)	
Protective structure [*6]		IP65F [*9] (When an external cable is connected. The rating is not applied to the relay connector side of the external cable.)	
External dimensions		145(5.71) (W) × 185(7.28) (H) × 79.3(3.12) (D) mm(inch) (excluding projections such as the emergency stop switch)	201(7.91) (W) × 230(9.06) (H) × 97(3.82) (D) mm(inch) (excluding projections such as the emergency stop switch)
Weight		0.79(1.7) kg(lb) (GOT main unit only)	1.2(2.6) kg(lb) (GOT main unit only)
Compatible software package		GT Works3 Version1.195D or later	

*1 As a characteristic of liquid crystal display panels, bright dots (always lit) and dark dots (never lit) may appear on the panel. Since liquid crystal display panels comprise of a great number of display elements, the appearance of bright and dark dots cannot be reduced to zero. Individual differences in liquid crystal display panels may cause differences in color, uneven brightness and flickering. Note that these phenomena are characteristics of liquid crystal display panels and it does not mean the products are defective or damaged.

*2 Flickering may occur due to vibration, shock, or the display colors.

*3 When a stylus is used, the touch panel has a life of 100 thousand touches. The stylus must satisfy the following specifications.   • Material: polyacetal resin   • Tip radius: 0.8 mm or more

*4 To prevent the display section from burning in and to lengthen the backlight life, enable the screen saver function and turn off the backlight.

*5 GT2505HS-VTBD supports RS-422 only.

*6 Note that the structure does not guarantee protection in all user environments. The rating is not applied when the interface environment protection cover or the environmental protection back cover is removed. The GOT may not be used in an environment where the GOT is exposed to oil or chemicals for a long time, or where oil mist fills the air.

*7 The minimum size of a key that can be placed. To ensure safe use of the product, the following settings are recommended.   • Key size: 16 × 16 dots or larger   • Distance between keys: 16 dots or more

*8 If you touch two points or more simultaneously on the touch panel, a touch switch near the touched points may operate unexpectedly. Do not touch two points or more simultaneously on the touch panel.

*9 The suffix "F" of IP65F is a symbol that indicates protection rate against oil. It is described in the Appendix of Japanese Industrial Standard JIS C 0920.

*10 Repeatedly touching the outer edge of the actual display area may cause the product to fail.

*11 While writing data to the memory for storage (ROM) or an SD memory card, if GOT is powered off, the data may be corrupted which may cause the GOT to stop operating.
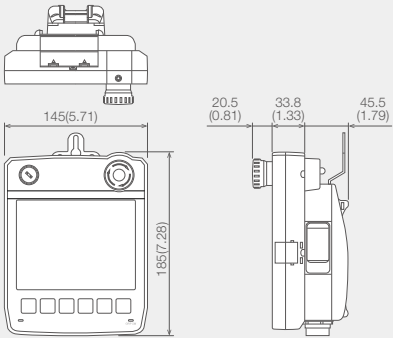
■ Switch specifications

Item	Specifications	
	GT2505HS-VTBD	GT2506HS-VTBD
Operation switch	6 switches (6 contacts/common), N/O contact, Max. rating 10mA/24 V DC, Life: 1000000 times	
Grip switch	1 switch (single wiring), 2 N/O contacts, 3-position system OFF-ON-OFF enable switch (deadman switch), Max. rating 1A/24 V DC (resistance load), Max. rating 0.3A/24 V DC (induction load), Life: 100000 times	
Emergency stop switch	1 switch (single wiring), 3 N/C contacts, Max. rating 1A/24 V DC (resistance load), Maximum rating 0.3A/24 V DC (induction load), Life: 100000 times	
Keylock switch (2-position switch)	1 switch (single wiring), 2-position, 2-notch type (A key can be inserted and removed on only the left side. Two keys are provided.), Maximum rating 1A/24 V DC (resistance load), Maximum rating 0.3A/24 V DC (induction load), Life: 100000 times	
Operation switch LED	—	6 green LEDs (lighting control from display section)
Grip switch LED	1 green LED (lighting control from display section)	

■ Power supply specifications
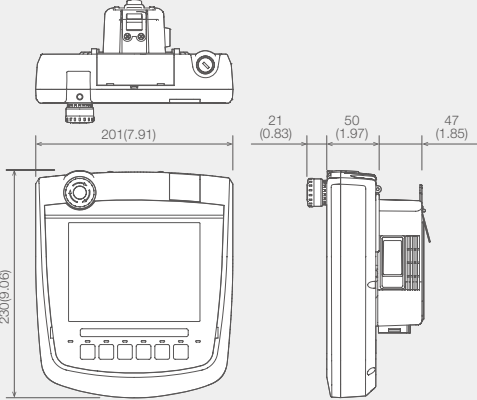
Item		Specifications	
		GT2505HS-VTBD	GT2506HS-VTBD
Power supply voltage		24 V DC (+10%, -15%)	
Power consumption	Under the maximum load	8.4 W or less	11.6 W or less
	Backlight OFF	7.0 W	8.2 W
Inrush current		30 A or less (2 ms, ambient temperature: 25°C, under the maximum load)	
Permissible instantaneous power failure time		5 ms or less	
Noise immunity		Noise voltage: 1000 Vp-p, noise width: 1 μs, measured by a noise simulator with noise frequency ranging from 30 Hz to 100 Hz	
Withstand voltage		500 V DC for 1 minute across power terminals and earth	
Insulation resistance		500 V DC across power terminals and earth, 10 MΩ or more by an insulation resistance tester	

■ External dimensions
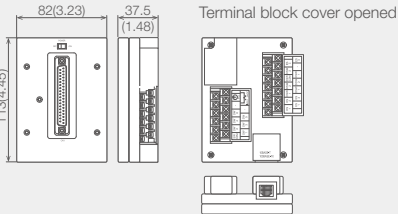
GOT
GT2505HS-VTBD
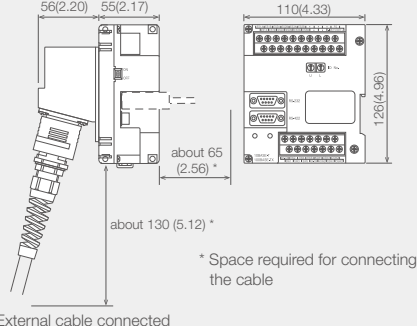
GT2506HS-VTBD   Unit: mm(inch)

145(5.71) 20.5(0.81) 33.8(1.33) 45.5(1.79) 185(7.28)

201(7.91) 21(0.83) 50(1.97) 47(1.85) 230(9.06)

Connector conversion box
GT16H-CNB-42S

GT16H-CNB-37S

56(2.20) 55(2.17) 110(4.33) 126(4.96)

about 65 (2.56) *

about 130 (5.12) *
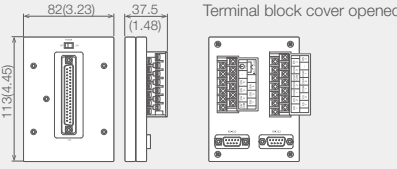
* Space required for connecting the cable

External cable connected

GT11H-CNB-37S

82(3.23) 37.5(1.48) 113(4.45) Terminal block cover opened

82(3.23) 37.5(1.48) 113(4.45) Terminal block cover opened

Product list

■ GT25 Handy GOT and Options

●: Applicable models   —: Not applicable

Product name	Model	Specifications	Supported model	
			GT2505HS	GT2506HS
GT25 Handy GOT	GT2505HS-VTBD	Display section: 5.7" VGA, TFT color LCD, 65536 colors, panel color: black, power supply: 24 V DC	●	—
	GT2506HS-VTBD	Display section: 6.5" VGA, TFT color LCD, 65536 colors, panel color: black, power supply: 24 V DC	—	●
Protective sheet	GT14H-50PSC	For 5.7" Clear type, a set of 5 sheets, transparent	●	—
	GT16H-60PSC	For 6.5"	—	●
Connector conversion box	GT16H-CNB-42S	For converting the Handy GOT signals into individual signals for the terminal block, D-sub connector, and Ethernet RJ-45.	● [1]	●
	GT16H-CNB-37S	For converting the Handy GOT signals into individual signals for the terminal block and Ethernet RJ-45.	●	●
	GT11H-CNB-37S	For converting the Handy GOT signals into individual signals for the terminal block and D-sub connector.	●	—
Serial multi-drop connection unit	GT01-RS4-M	For the GOT multi-drop connection	—	●
Emergency stop switch guard cover	GT14H-50ESCOV	For GT2505 Handy GOT Cover for preventing incorrect operation of the emergency stop switch	●	—
	GT16H-60ESCOV	For GT2506 Handy GOT	—	●
Wall-mounting attachment for Handy GOT	GT14H-50ATT	For GT2505 Handy GOT	●	—
SD memory card	NZ1MEM-2GBSD	SD memory card for GOT, 2 GB	●	●
	NZ1MEM-4GBSD	SDHC memory card for GOT, 4 GB	●	●
	NZ1MEM-8GBSD	SDHC memory card for GOT, 8 GB	●	●
	NZ1MEM-16GBSD	SDHC memory card for GOT, 16 GB	●	●
Battery	GT11-50BAT	Battery for backup of SRAM data, clock data, and system status log data (for replacement)	●	—
	GT15-BAT		—	●

[1]   Only Ethernet connection is supported. Serial communication connection is not available.

■ Cables

●: Applicable models   —: Not applicable

Product name	Model	Cable length	Specifications	Supported model	
				GT2505HS	GT2506HS
External connection cable (to connect the connector conversion box)	GT14H-C30-42P	3 m	For connection between the Handy GOT and the connector conversion box (GT16H-CNB-42S)	●	—
	GT14H-C60-42P	6 m		●	—
	GT14H-C100-42P	10 m		●	—
	GT16H-C30-42P	3 m	For connection between the Handy GOT and the connector conversion box (GT16H-CNB-42S)	—	●
	GT16H-C60-42P	6 m		—	●
	GT16H-C100-42P	10 m		—	●
	GT16H-C30-37PE	3 m	For connection between the Handy GOT and the connector conversion box (GT16H-CNB-37S)	—	●
	GT16H-C60-37PE	6 m		—	●
	GT16H-C100-37PE	10 m		—	●
External connection cable (to connect the connector conversion box or relay cable) [1]	GT11H-C30-37P	3 m	For connection between the Handy GOT and the connector conversion box (GT16H-CNB-37S and GT11H-CNB-37S) For connection between the Handy GOT and the relay cable (GT11H-C15R□-□P)	●	—
	GT11H-C60-37P	6 m		●	—
	GT11H-C100-37P	10 m		●	—
External connection cable (to connect separate wire) [1]	GT11H-C30	3 m	For connection between the Handy GOT and the FA device, the power supply, or the operation switch	●	—
	GT11H-C60	6 m		●	—
	GT11H-C100	10 m		●	—
Relay cable [1] (to connect the external connection cable and a programmable controller)	GT11H-C15R4-8P	1.5 m	For connection between the Handy GOT and the FXCPU For connection between the Handy GOT and the power supply or the operation switch	●	—
	GT11H-C15R4-25P	1.5 m	For connecting the Handy GOT and the A/QnACPU For connection between the Handy GOT and the power supply or the operation switch	●	—
	GT11H-C15R2-6P	1.5 m	For connecting the Handy GOT and the QCPU For connection between the Handy GOT and the power supply or the operation switch	●	—
USB cable Data transfer cable	GT09-C30USB-5P	3 m	For connecting a personal computer (screen design software) and GOT For connecting a personal computer (GT SoftGOT2000) and QnU/L/FXCPU [USB-A⇔USB Mini-B]	●	●

[1]   Use the cable version C or later.

▶ For other cables, please refer to the GOT2000 Series Handy GOT Connection Manual For GT Works3 Version1.

■ Software

●: Applicable models　—: Not applicable

Product name	Model	Specifications		Supported model	
				GT2505HS	GT2506HS
HMI/GOT Screen Design Software MELSOFT GT Works3	SW1DND-GTWK3-E	English version	Standard license product	DVD-ROM	●	●
	SW1DND-GTWK3-EA		Volume license product *1*4		●	●
	SW1DND-GTWK3-EAZ		Additional license product *1*3		●	●
Remote Personal Computer Operation Function (Ethernet) License *2	GT25-PCRAKEY-1	1 license		●	●
	GT25-PCRAKEY-5	5 licenses		●	●
	GT25-PCRAKEY-10	10 licenses		●	●
	GT25-PCRAKEY-20	20 licenses		●	●
VNC Server Function License *2	GT25-VNCSKEY-1	1 license		●	●
	GT25-VNCSKEY-5	5 licenses		●	●
	GT25-VNCSKEY-10	10 licenses		●	●
	GT25-VNCSKEY-20	20 licenses		●	●
MES I/F Function License *2	GT25-MESIFKEY-1	1 license		●	●
	GT25-MESIFKEY-5	5 licenses		●	●
	GT25-MESIFKEY-10	10 licenses		●	●
	GT25-MESIFKEY-20	20 licenses		●	●
GOT Mobile Function License *2	GT25-WEBSKEY-1	1 license		●	●
	GT25-WEBSKEY-5	5 licenses		●	●
	GT25-WEBSKEY-10	10 licenses		●	●
	GT25-WEBSKEY-20	20 licenses		●	●

*1　The desired number of licenses (2 or more) can be purchased. For details, please contact your local sales office.

*2　1 license is required for 1 GOT unit.

*3　This product does not include the DVD-ROM. Only the license certificate with the product ID No. is issued.

*4　Volume license product is not sold separately and should be purchased with the standard license product.

The actual color may differ slightly from the pictures in this catalog.
The actual display may differ from what are shown on GOT screen images.

Precautions before use

This publication explains the typical features and functions of the products herein and does not provide restrictions or other information related to usage and module combinations. Before using the products, always read the product user manuals. Mitsubishi Electric will not be held liable for damage caused by factors found not to be the cause of Mitsubishi Electric; opportunity loss or lost profits caused by faults in Mitsubishi Electric products; damage, secondary damage, or accident compensation, whether foreseeable or not, caused by special factors; damage to products other than Mitsubishi Electric products; or any other duties.

⚠ For safe use

- To use the products given in this publication properly, always read the relevant manuals before beginning operation.
- The products have been manufactured as general-purpose parts for general industries, and are not designed or manufactured to be incorporated in a device or system used in purposes related to human life.
- Before using the products for special purposes such as nuclear power, electric power, aerospace, medicine or passenger-carrying vehicles, consult with Mitsubishi Electric.
- The products have been manufactured under strict quality control. However, when installing the products where major accidents or losses could occur if the products fail, install appropriate backup or fail-safe functions in the system.

CC-Link　CC-Link IE　MELSOFT

Lineup

Concept movie   Lineup

GT27

Advanced model with multi-touch gesture functions

| Ethernet | RS-232 | RS-422/485 | CC-Link IE Control | CC-Link IE Field*1 | CC-Link IE Field Basic | CC-Link | Bus | MELSECNET |

*1 The CC-Link IE Field Network communication unit and GOT set is also available.

15 inch
TFT 65536 colors | AC | DC

XGA 1024×768
GT2715-XTBA
GT2715-XTBD

12.1 inch
TFT 65536 colors | AC | DC

SVGA 800×600
GT2712-STBA
GT2712-STBD
GT2712-STWA [White model]
GT2712-STWD [White model]

10.4 inch
TFT 65536 colors | AC | DC

SVGA 800×600
GT2710-STBA
GT2710-STBD

VGA 640×480
GT2710-VTBA
GT2710-VTBD
GT2710-VTWA [White model]
GT2710-VTWD [White model]

GT25

High performance, cost efficient, mid-range model

| Ethernet | RS-232 | RS-422/485 | CC-Link IE Control*2 | CC-Link IE Field*1*2 | CC-Link IE Field Basic | CC-Link*2 | Bus*2 | MELSECNET*2 |

*1 The CC-Link IE Field Network communication unit and GOT set is also available.   *2 Not supported by GT2505.

12.1 inch
TFT 65536 colors | AC | DC

SVGA 800×600
GT2512-STBA
GT2512-STBD

10.4 inch
TFT 65536 colors | AC | DC

VGA 640×480
GT2510-VTBA
GT2510-VTBD
GT2510-VTWA [White model]
GT2510-VTWD [White model]

8.4 inch
TFT 65536 colors | AC | DC

VGA 640×480
GT2508-VTBA
GT2508-VTBD
GT2508-VTWA [White model]
GT2508-VTWD [White model]

GT25 Wide

GOT2000 widescreen expands your view

| Ethernet (2 ports) | RS-232 | RS-422/485 | CC-Link IE Field Basic | Sound output (built-in) |

10.1 inch
TFT 65536 colors | DC

WXGA 1280×800
GT2510-WXTBD
GT2510-WXTSD

7 inch
TFT 65536 colors | DC

WVGA 800×480
GT2507-WTBD
GT2507-WTSD

GT25 Rugged

| Ethernet (2 ports) |
| RS-232 | RS-422/485 |
| CC-Link IE Field Basic |
| Sound output (built-in) |

NEW

7 inch
TFT 65536 colors | DC

WVGA 800×480
GT2507T-WTSD

GT23

Unchallenged cost performance

| Ethernet | RS-232 | RS-422/485 | CC-Link IE Field Basic |

10.4 inch
TFT 65536 colors | AC | DC

VGA 640×480
GT2310-VTBA
GT2310-VTBD

8.4 inch
TFT 65536 colors | AC | DC

VGA 640×480
GT2308-VTBA
GT2308-VTBD

HMI/GOT Screen Design Software
Professional Designs in Just a Few Clicks

GOT Screen Design Software
MELSOFT GT Works3 +plus

You can effectively use existing screen assets or design aesthetic screens with GT Works3, the software that can be commonly used for the GOT2000 Series.

| Multi-touch gesture | Multimedia*2 | Video/RGB*2 | Sound output | External I/O |

*2 Not supported by GT2705.

SoftGOT

8.4 inch
| TFT 65536 colors | AC / DC |

SVGA 800×600 GT2708-STBA / GT2708-STBD
VGA 640×480 GT2708-VTBA / GT2708-VTBD

5.7 inch
| TFT 65536 colors | DC |

VGA 640×480 GT2705-VTBD

GOT2000 compatible software 65536 colors

USB port license key

GOT2000 compatible HMI software
GT SoftGOT 2000 Version1

GT SoftGOT2000 is an HMI software that allows GOT2000 functions to operate on a personal computer or panel computer. Various industrial devices can be connected and monitored.
Resolution: 640 to 1920 × 480 to 1200
* A separate license key must be mounted during use.

| Sound output*2 | External I/O*2 |

GT25 Handy
HMI functionality in the palm of your hand

| Ethernet | RS-232 | RS-422/485*1 | CC-Link IE Field Basic |

*1 GT2505HS supports RS-422 only.

5.7 inch
| TFT 65536 colors | DC |

VGA 640×480 GT2505-VTBD

6.5 inch
| TFT 65536 colors | DC |

VGA 640×480 GT2506HS-VTBD

NEW

5.7 inch
| TFT 65536 colors | DC |

VGA 640×480 GT2505HS-VTBD

GT25
Open frame
A new style of GOT2000

| Ethernet | RS-232 | RS-422/485 | CC-Link IE Control | CC-Link IE Field | CC-Link IE Field Basic | CC-Link | Bus | MELSECNET | Sound output | External I/O |

12.1 inch
| TFT 65536 colors | AC / DC |

SVGA 800×600 GT2512F-STNA / GT2512F-STND

10.4 inch
| TFT 65536 colors | AC / DC |

VGA 640×480 GT2510F-VTNA / GT2510F-VTND

8.4 inch
| TFT 65536 colors | AC / DC |

VGA 640×480 GT2508F-VTNA / GT2508F-VTND

GT21
Compact models with basic functions

| Ethernet*1 | RS-232*1 | RS-422/485*1 | CC-Link IE Field Basic*2 |

*1 Supported interfaces vary depending on the model.
  Please refer to descriptions in [ ] after the model.
*2 Supported only by the models equipped with an Ethernet port.

GT21 Wide

| Ethernet |
| RS-232 | RS-422/485 |
| CC-Link IE Field Basic |

4.3 inch
| TFT 65536 colors | DC |

480×272 GT2104-RTBD
[Ethernet, RS-232, RS-422/485]

3.8 inch
| TFT mono-chrome | DC |
5-color LED

320×128
GT2103-PMBD [Ethernet, RS-422/485]
GT2103-PMBDS [RS-232, RS-422/485]
GT2103-PMBDS2 [RS-232 × 2 channels]
GT2103-PMBLS [RS-422] 5 V DC type

7 inch
| TFT 65536 colors | DC |

WVGA 800×480 GT2107-WTBD / GT2107-WTSD

For the status of conforming to various standards and laws, please refer to the Mitsubishi Electric Factory Automation Global website **(www.MitsubishiElectric.com/fa/).**

Warranty

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 forty-two (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.
  ①Failure occurring from inappropriate storage or handling, carelessness or negligence by the user. Failure caused by the user's hardware or software design.
  ②Failure caused by unapproved modifications, etc., to the product by the user.
  ③When 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.
  ④Failure that could have been avoided if consumable parts designated in the user's manual etc. had been correctly serviced or replaced.
  ⑤Replacement of consumable parts (battery, display device, touch panel, fuse, etc.).
  ⑥Failure 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.
  ⑦Failure caused by reasons unpredictable by scientific technology standards at time of shipment from Mitsubishi.
  ⑧Any 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:
(1) Damages caused by any cause found not to be the responsibility of Mitsubishi.
(2) Loss in opportunity, lost profits incurred to the user by Failures of Mitsubishi products.
(3) Special damages and secondary damages whether foreseeable or not, compensation for accidents, and compensation for damages to products other than Mitsubishi products.
(4) 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.

Overseas service

(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.
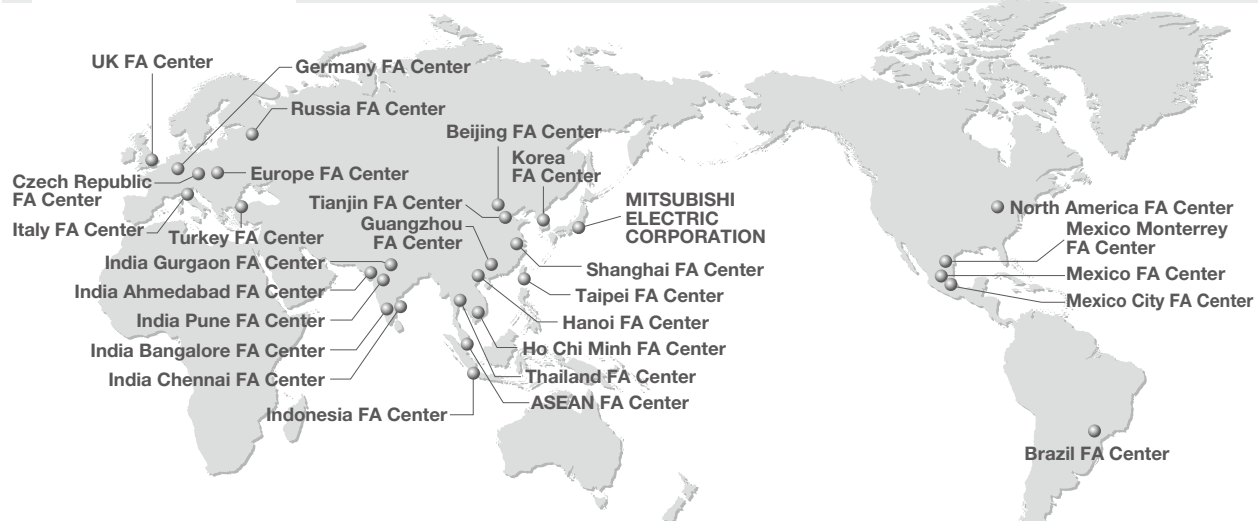In addition, applications in which human life or property that could be greatly affected, such as in aircraft, medical applications, incineration and fuel devices, manned transportation equipment for recreation and amusement, and safety devices, shall also be excluded from the graphic operation terminal 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.

Global support

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North America FA Center
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Brazil FA Center

China Mainland

Shanghai FA Center
Mitsubishi Electric Automation (China) Ltd.
10F, Mitsubishi Electric Automation Center, No.1386 Hongqiao Road, Changning District, Shanghai, China
Tel: +86-21-2322-3030 / Fax: +86-21-2322-3000(9611#)

Beijing FA Center
Mitsubishi Electric Automation (China) Ltd.
Beijing Branch
5/F, ONE INDIGO, 20 Jiuxianqiao Road Chaoyang District, Beijing, China
Tel: +86-10-6518-8830 / Fax: +86-10-6518-2938

Tianjin FA Center
Mitsubishi Electric Automation (China) Ltd.
Tianjin Branch
Room 2003 City Tower, No.35, Youyi Road, Hexi District, Tianjin, China
Tel: +86-22-2813-1015 / Fax: +86-22-2813-1017

Guangzhou FA Center
Mitsubishi Electric Automation (China) Ltd.
Guangzhou Branch
Room 1609, North Tower, The Hub Center, No.1068, Xingang East Road, Haizhu District, Guangzhou, China
Tel: +86-20-8923-6730 / Fax: +86-20-8923-6715

Taiwan

Taipei FA Center
SETSUYO ENTERPRISE CO., LTD.
3F, No.105, Wugong 3rd Road, Wugu District, New Taipei City 24889, Taiwan
Tel: +886-2-2299-9917 / Fax: +886-2-2299-9963

Korea

Korea FA Center
Mitsubishi Electric Automation Korea Co., Ltd.
7F-9F, Gangseo Hangang Xi-tower A, 401, Yangcheon-ro, Gangseo-Gu, Seoul 07528, Korea
Tel: +82-2-3660-9632 / Fax: +82-2-3663-0475

ASEAN

ASEAN FA Center
Mitsubishi Electric Asia Pte. Ltd.
307 Alexandra Road, Mitsubishi Electric Building, Singapore 159943
Tel: +65-6470-2480 / Fax: +65-6476-7439

Indonesia

Indonesia FA Center
PT. Mitsubishi Electric Indonesia Cikarang Office
Jl. Kenari Raya Blok G2-07A Delta Silicon 5, Lippo Cikarang - Bekasi 17550, Indonesia
Tel: +62-21-2961-7797 / Fax: +62-21-2961-7794

Vietnam

Hanoi FA Center
Mitsubishi Electric Vietnam Co., LTD.
Ha Noi Office
6th Floor, Detech Tower, 8 Ton That Thuyet Street, My Dinh 2 Ward, Nam Tu Liem District, Hanoi City, Vietnam
Tel: +84-4-3937-8075 / Fax: +84-4-3937-8076

Ho Chi Minh FA Center
Mitsubishi Electric Vietnam Co., LTD.
Ho Chi Minh Head Office
Unit 01-04, 10th Floor, Vincom Center, 72 Le Thanh Ton Street, District 1, Ho Chi Minh City, Vietnam
Tel: +84-8-3910-5945 / Fax: +84-8-3910-5947

Thailand

Thailand FA Center
Mitsubishi Electric Factory Automation (Thailand) Co., Ltd.
12th Floor, SV. City Building, Office Tower 1, No.896/19 and 20 Rama 3 Road, Kwaeng Bangpongpang, Khet Yannawa, Bangkok 10120, Thailand
Tel: +66-2682-6522 to 31 / Fax: +66-2682-6020

India

India Pune FA Center
Mitsubishi Electric India Pvt. Ltd.
Pune Branch
Emerald House, EL-3, J Block, M.I.D.C., Bhosari, Pune - 411026, Maharashtra, India
Tel: +91-20-2710-2000 / Fax: +91-20-2710-2100

India Gurgaon FA Center
Mitsubishi Electric India Pvt. Ltd.
Gurgaon Head Office
2nd Floor, Tower A & B, Cyber Greens, DLF Cyber City, DLF Phase -III, Gurgaon - 122002, Haryana, India
Tel: +91-124-463-0300 / Fax: +91-124-463-0399

India Bangalore FA Center
Mitsubishi Electric India Pvt. Ltd.
Bangalore Branch
Prestige Emerald, 6th Floor, Municipal No.2, Madras Bank Road, Bangalore - 560001, Karnataka, India
Tel: +91-80-4020-1600 / Fax: +91-80-4020-1699

India Chennai FA Center
Mitsubishi Electric India Pvt. Ltd.
Chennai Branch
Citilights Corporate Centre No.1, Vivekananda Road, Srinivasa Nagar, Chetpet, Chennai - 600031, Tamil Nadu, India
Tel: +91-44-4554-8772 / Fax: +91-44-4554-8773

India Ahmedabad FA Center
Mitsubishi Electric India Pvt. Ltd.
Ahmedabad Branch
B/4, 3rd Floor, SAFAL Profitaire, Corporate Road, Prahaladnagar, Satellite, Ahmedabad - 380015, Gujarat, India
Tel: +91-79-6512-0063 / Fax: -

Americas

North America FA Center
Mitsubishi Electric Automation, Inc.
500 Corporate Woods Parkway, Vernon Hills, IL 60061, U.S.A.
Tel: +1-847-478-2100 / Fax: +1-847-478-2253

Mexico

Mexico FA Center
MITSUBISHI ELECTRIC AUTOMATION, INC.
Queretaro Office
Parque Tecnologico Innovacion Queretaro Lateral Carretera Estatal 431, Km 2+200, Lote 91 Modulos 1 y 2 Hacienda la Machorra, CP 76246, El Marques, Queretaro, Mexico
Tel: +52-442-153-6014 / Fax: -

Mexico City FA Center
Mitsubishi Electric Automation, Inc.
Mexico Branch
Mariano Escobedo #69, Col. Zona Industrial, Tlalnepantla Edo. Mexico, C.P.54030
Tel: +52-55-3067-7511 / Fax: -

Mexico

Mexico Monterrey FA Center
MITSUBISHI ELECTRIC AUTOMATION, INC.
Monterrey Office
Plaza Mirage, Av. Gonzalitos 460 Sur, Local 28, Col. San Jeronimo, Monterrey, Nuevo Leon, C.P. 64640, Mexico
Tel: +52-55-3067-7521 / Fax: -

Brazil

Brazil FA Center
Mitsubishi Electric do Brasil Comercio e Servicos Ltda.
Avenida Adelino Cardana, 293, 21 andar, Bethaville, Barueri SP, Brasil CEP 06401-147
Tel: +55-11-4689-3000 / Fax: +55-11-4689-3016

Europe

Europe FA Center
Mitsubishi Electric Europe B.V. Polish Branch
ul. Krakowska 50, 32-083 Balice, Poland
Tel: +48-12-630-47-00 / Fax: +48-12-630-47-01

Germany FA Center
Mitsubishi Electric Europe B.V. German Branch
Mitsubishi-Electric-Platz 1, 40882 Ratingen, Germany
Tel: +49-2102-486-0 / Fax: +49-2102-486-1120

UK FA Center
Mitsubishi Electric Europe B.V. UK Branch
Travellers Lane, Hatfield, Hertfordshire, AL10 8XB, U.K.
Tel: +44-1707-28-8780 / Fax: +44-1707-27-8695

Italy FA Center
Mitsubishi Electric Europe B.V. Italian Branch
Centro Direzionale Colleoni - Palazzo Sirio,Viale Colleoni 7, Agrate Brianza (MB), Italy
Tel: +39-039-60531 / Fax: +39-039-6053-312

Czech Republic FA Center
Mitsubishi Electric Europe B.V. Czech Branch
Avenir Business Park, Radlicka 751/113e, 158 00 Praha5, Czech Republic
Tel: +420-251-551-470 / Fax: +420-251-551-471

Russia FA Center
Mitsubishi Electric (Russia) LLC
St. Petersburg Branch
Piskarevsky pr. 2, bld 2, lit "Sch", BC "Benua", office 720; 195027, St. Petersburg, Russia
Tel: +7-812-633-3497 / Fax: +7-812-633-3499

Turkey FA Center
Mitsubishi Electric Turkey A.S. Umraniye Branch
Serifali Mahallesi Nutuk Sokak No:5, TR-34775 Umraniye / Istanbul, Turkey
Tel: +90-216-526-3990 / Fax: +90-216-526-3995

GOT2000 Handy
Graphic Operation Terminal

MITSUBISHI ELECTRIC CORPORATION
HEAD OFFICE: TOKYO BLDG., 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN
NAGOYA WORKS: 1-14, YADA-MINAMI 5, HIGASHI-KU, NAGOYA, JAPAN

Country/Region	Sales office						
USA	+1-847-478-2100	Singapore	+65-6473-2308	Germany	+49-2102-486-0	Turkey	+90-216-526-3990
Mexico	+52-55-3067-7511	Thailand	+66-2682-6522 to 31	UK	+44-1707-28-8780	Poland	+48-12-347-65-00
Brazil	+55-11-4689-3000	Indonesia	+62-21-3192-6461	Italy	+39-039-60531	Russia	+7-812-633-3497
China	+86-21-2322-3030	Vietnam	+84-8-3910-5945	Spain	+34-935-65-3131	South Africa	+27-11-658-8100
Taiwan	+886-2-2299-2499	India	+91-20-2710-2000	France	+33-1-55-68-55-68		
Korea	+82-2-3660-9530	Australia	+61-2-9684-7777	Czech	+420-251-551-470		

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