

GT25 Open Frame Model General Description

GT2512F-STNA GT2512F-STND GT2510F-VTNA GT2510F-VTND GT2508F-VTNA GT2508F-VTND

Thank you for choosing Mitsubishi Electric Graphic Operation

Terminal (GOT). Prior to use, please read both this manual and the detailed manual thoroughly to fully understand the product.



MODEL	GT25F-U-GD-E				
Model code	1D7MQ5				
IB(NA)-0800553ENG-J(2307)MEE					

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●SAFETY PRECAUTIONS●

(Always read these precautions before using this equipment.) Before using this product, please read this manual and the relevant manuals introduced in this manual carefully and pay full attention to

safety to handle the product correctly.

The precautions given in this manual are concerned with this prod-

In this manual, the safety precautions are ranked as "WARNING"

MARNING Indicates that incorrect handling may cause hazardous conditions, resulting in death or severe injury.

Indicates that incorrect handling may cause hazardous conditions, resulting in medium or slight personal injury or physical damage. Note that the \triangle CAUTION level may lead to a serious accident

according to the circumstances.

Always follow the instructions of both levels because they are import-

ant to personal safety. Please save this manual to make it accessible when required and

always forward it to the end user

[DESIGN PRECAUTIONS]

⚠ WARNING

- Some failures of the GOT, communication unit to value may neep the outputs on or off.

 Some failures of a touch panel may cause malfunction of the input objects such as a touch switch. An external monitoring circuit should be provided to check for output signals which may lead to a serious accident. Not doing so can cause an ascident due to false output or malfunction. Not doing so can cause an ascind device that may cause a serious accident. An independent and redundant hardware or mechanical interiock is required to configure the device that displays and outputs serious warning. Failure to observe this instruction may result in an accident due to incorrect output or malfunction.

- An independent and the through light war on the treatment in more as the quite of the control of
- For bus connection: The PLC CPU becomes incoperative, incoperative and hus connection: The GOT becomes inoperative. A system where the GOT is used should be configured to perform any significant operation to the system by using the switches of a device other than the GOT on the assumption that a GOT communication fault will occur. Not doing so can cause an accident due to false output or malfunction. To maintain the security (confidentiality, integrity, and availability) of the GOT and the system against unauthorized access, DoS "1 attacks, computer viruses, and other cyberattacks from unreliable networks and devices via network, take appropriate measures such as firewalls, virtual private networks of the properties of the control of the control

⚠ WARNING

- Products with the CI., IDIV2 mark on the rating plate are suitable for use in Class I, Division 2. Groups A, B, C and D hazardous locations, or nonhazardous locations only.

 This mark indicates that the product is certified for use in the Class I, Division 2 environment where flammable gases, vapors, or liquids are not likely to exist under normal conditions.

 When using the products in the Class I, Division 2 environment, observe the following to reduce the risk of explosion.

 This device is open-type and is to be installed in an enclosure suitable for the environment and require a tool or key to open.

 "In the control of the class I, Division 2, open."

 "Warning Explosion Hazard Do not connect or disconnect equipment or disconnect external connection terminals unless power has been removed or the area is known to be non-hazardous.

 "In eside interface and extension interface of this equipment cannot be used in Class I, Division 2 environments."

 Les produits marqués CII, DIV2 sur la plaque signalétique peuvent être utilisés en Class I, Division 2 environments.

 Les produits marqués CII, DIV2 sur la plaque signalétique peuvent être utilisés en Class I, Division 2 ou dans des circonstances anormales, il peut y avoir présence de gaz, vapeurs ou liquides inflammables. SI le produit est de produit est homologué pour utilisation en environnement de Class I, Division 2, observer les précautions suivantes pour réduire le risque d'explosion une enceinte appropriée à l'environnement et en pouvant être ouverte qu'au moyen exercises suivains pour réduire le risque d'explosion une enceinte pour de l'explosion Toute substitution de composant peut compromette l'aptitude à l'utilisation en Class I, Division 2.

 "Avertissement Danger d'explosion Toute substitution de composant peut compromette l'explosion Ne pas connecter ou déconnecter l'equipment ni déconnecter les bomes de connecter ou déconnecter l'equipment ni deconnecter les bomes de connection externes quand le circuit est sous tension, ni avant de d'être a Products with the Cl.1, DIV.2 mark on the rating plate are suitable for use in Class I, Division 2, Groups A, B, C and D hazardous locations, or

△ CAUTION

- Do not bundle the control and communication cables with main-circuit, powe or other wiring. Run the above cables separately from such wiring and keep them a minimur of 100mm apart.

 Not doing so noise can cause a malfunction.
 Do not press the GOT display section with a pointed material as a pen or driver.
- Do not press the GOT display section with a pointed material as a peri or driver.

 Doing so can result in a damage or failure of the display section.

 When the GOT connects to an Ethernet network, the IP address setting is restricted according to the system configuration.

 When a GOT2000 series model and a GOT1000 series model are on an Ethernet network, do not set the IP address 192.168.0.18 for the GOTs and the controllers on this network.

 Doing so can cause IP address duplication at the GOT startup, adversely affecting the communication of the device with the IP address 192.168.0.18. The operation at the IP address duplication depends on the devices and the system.

 Turn one controllers and the network devices to be ready for communication before they communication error on the GOT.

 Within the GOT is subject to shoot or whatlon, or some colors appear on the screen of the GOT, the screen of the GOT might flicker.

△ WARNING

[MOUNTING PRECAUTIONS]

- Be sure to shut off all phases of the external power supply used by the system before mounting or removing the GOT main unit to/from the panel. Not doing so can cause the unit to fail or maffunction. Be sure to shut off all phases of the external power supply used by the system before mounting or removing the communication unit or the option unit onto/from the GOT.

△ CAUTION

- ⚠ CAUTION

 Use the GOT in the environment that satisfies the general specifications described in this manual. Not doing so can cause an electric shock, fire, maifunction or product dramage of deterioration. The product of the control of the cont

- 0.9 N-m or more.

 Make sure that no foreign matter such as welding waste is at and around the bases of the studs.

 Tighten nuts on the studs in the specified torque range (0.8 N-m to 0.9 N-m) with a wrench for M4 nuts.

 Undertightening a screw or nut may cause the GOT to drop, short-circuit, or malfunction.
- ffunction.

 etrightening a screw or nut may damage it or the GOT, causing the GOT to
 p, short-circuit, or malfunction.
 not perseate or store the GOT in the environment exposed to direct
 light, high temperature, dust, humidity, or vibrations.

[WIRING PRECAUTIONS]

⚠ WARNING

Be sure to shut off all phases of the external power supply used by the system before wiring.

Failure to do so may result in an electric shock, product damage or malfunctions.

△ CAUTION

- Make sure to ground the FG terminal and LG terminal of the GOT power supply section solely for the GOT (ground resistance: $100~\Omega$ or less, ground cable diameter: 1.6~mm or more). Not doing so may cause an electric shock or malfunction. When tightening the terminal screws, use a Phillips-head screwdriver No.2. Terminal screw which are not to be used must be tightened always at torque 0.5~N-m to 0.8~N-m. Otherwise there will be a danger of short circuit against the solderless terminals.

- Otherwise there win be a danger or short circuit against the source resor-terminals.

 The property of the state of the st

- The unings— Care to avoid foreign matter seems. Exercise care to avoid foreign matter seems to the country of t
- Before starting system operation, be sure to peed this labor.

 Plug the communication cable into the GOT interface or the connector of the connected unit, and tighten the mounting screws and the terminal screws in the specified torque range a short circuit or malfunction.

 Overtightening can cause a short circuit or malfunction due to the damage of the screws or unit.

 Plug the OnA/ACPU/Motion controller (A series) bus connection cable by inserting it into the connector of the connected unit until it "clicks".

 After plugging, check that it has been inserted snugly.

 Not doing so can cause a malfunction due to a contact fault.

[TEST OPERATION PRECAUTIONS]

⚠ WARNING

Before testing the operation of a user-created monitor screen (such as turning on or off a bit device, changing the current value of a word device, changing the set value or current value of a timer or counter, and changing the current value of a buffer memory), thoroughly read the manual to fully understand the operating procedures. During the test operation, never change the data of the devices which are used to perform significant operation for the system. False output or malfunction can cause an accident.

[STARTUP/MAINTENANCE PRECAUTIONS]

△ WARNING

- When power is on, do not touch the terminals.
 Doing so can cause an electric shook.
 Correctly connect the battery connector.
 Do not charge, disassemble, heat, short-circuit, solder, or throw the battery into the fire.
 Doing so will cause the battery to produce heat, explode, or ignite, resulting nito the fire.

 Doing so will cause the battery to produce heat, explode, or ignite, resulting in injury and fire.

 Before starting cleaning or terminal
- injury and fire. Before starting cleaning or terminal screw retightening, always switch off the power externally in all phases. Not switching the power off in all phases can cause a unit failure or malfunction. Undertightening can cause a drop, short circuit or malfunction. Overtightening can cause a drop, short circuit or malfunction due to the damage of the screws or unit.

△ CAUTION

- Do not disassemble or modify the unit.

 Doing so can cause a failure, malfunction, injury or fire.
 Do not touch the conductive and electronic parts of the unit directly.
 Do not touch the conductive and electronic parts of the unit directly.
 Doing so can cause a unit malfunction or failure.
 The cables connected to the unit must be run in ducts or clamped.
 Not doing so can cause the unit or cable to be damaged due to the dangling, motion or accidental pulling of the cables or can cause a malfunction due to a cable connection fault.
 When including the cable connected to the unit, do not hold and pull from the cable of the unit or cable to be damaged or can cause a malfunction due to a cable connection fault.
 Do not drop the module or subject it to strong shock. A module damage may result.
 Do not drop to give an immact to the battery mounted to the care.
- result.

 Do not drop or give an impact to the battery mounted to the unit.

 Doing so may damage the battery, causing the battery fluid to leak inside the
- Do not drop or give an impact to the battery, causing the battery fluid to leak inside the battery.

 If the battery is dropped or given an impact, dispose of it without using. Before touching the unit, always touch grounded metals, etc. to discharge state electric the cause of the control o

[TOUCH PANEL PRECAUTIONS]

△ CAUTION

For the analog-resistive film type touch panels, normally the adjust required.

However, the difference between a touched position and the object position may occur as the period of use elapses.

When any difference between a touched position and the object position occurs, execute the touch panel calibration.

△ CAUTION

When any difference between a touched position and the object position occurs, other object may be activated. This may cause an unexpected operation due to incorrect output or malfunction.

PRECAUTIONS WHEN THE DATA STORAGE IS IN USE

⚠ WARNING

If the SD card is removed from drive A of the GOT while being accessed by the GOT, the GOT may stop processing data for about 20 seconds. The GOT cannot be operated during this period. The functions that run in the background including a screen updating, alarm logging, scripts, and others are also interrupted. Since this interruption makes an impact to the system operation, it might cause failure. cause failure.
Check that the SD card access LED is off before removing the SD card.

△ CAUTION

- If the data storage is removed from the GOT while being accessed by the GOT, the data storage and files may be damaged. Before removing the data storage from the GOT, check the SD card access LED, system signal, or others to make sure that the data storage is not accessed.

- accessed.
 Turning off the GOT while it accesses the SD card results in damage to the SD card and files.
 After inserting an SD card into the GOT, make sure to close the SD card cover. Not doing so causes the data not to be read or written.
 When removing the SD card from the GOT, make sure to support the SD card by hand as it may pop out.
 Not doing so may cause the SD card to drop from the GOT, resulting in a failure of break.
- failure or break.

 When inserting a USB device into a USB interface of the GOT, make sure to insert the device into the interface firmly. Not doing so can cause a malfunction due to a contact failure. Before removing the data storage from the GOT, follow the procedure for removal on the utility screen of the GOT. After the successful completion dialog is displayed, remove the data storage by hand carefully. Not doing so may cause the data storage to drop from the GOT, resulting in a failure or break.

[PRECAUTIONS FOR USE]

△ CAUTION

Do not touch the outer edge of the actual display area repeatedly. Doing so may result in a failure. Do not turn off the GOT while data is being written to the storage me (ROM) or SD card. Doing so may corrupt the data, rendering the GOT inoperative.

[PRECAUTIONS FOR REMOTE CONTROL]

△ WARNING

Remote control is available through a network by using GOT functions, including the SoftGOT-GOT link function, the remote personal computer operation function, the VNC server function, and the GOT Mobile function. If these functions are used to perform remote control of control equipment, the field operator may not notice the remote control, possibly leading to an

accident. In addition, a communication delay or interruption may occur depending on the network environment, and remote control of control equipment cannot be performed normally in some cases. Before using the above functions to perform remote control, fully grasp the circumstances of the field site and ensure safety.

[PRECAUTIONS FOR EXCLUSIVE AUTHORIZATION CONTROL]

⚠ WARNING

Make sure to fully understand the GOT network interaction function before using this function to control the authorization among pieces of equipment to prevent simultaneous operations.

The exclusive authorization control of the GOT network interaction function can be enabled or disabled for each screen.

(For all screens, the exclusive authorization control is disabled by default.) Properly determine the screens for which the exclusive authorization control is required, and set the control by screen.

A screen for which the exclusive authorization control is disabled can be operated simultaneously from pieces of equipment.

Make sure to determine the operation period for each operator, fully grasp the circumstances of the field site, and ensure safety to perform operations.

[DISPOSAL PRECAUTIONS] **△** CAUTION

When disposing of this product, treat it as industrial waste. When disposing of batteries, separate them from other wastes according to the local regulations. (Refer to the GO12000 Series User's Manual (Hardware) for details of the battery directive in the EU member states.)

[TRANSPORTATION PRECAUTIONS]

△ CAUTION

- When transporting lithium batteries, make sure to treat them based on the
- When transporting lithium betterlies, many state to the transport regulations. (Refer to the GOT2000 Series User's Manual (Hardware) for details of the regulated models.)
 Make sure to transport the GOT main unit and/or relevant unit(s) in the manner they will not be exposed to the impact exceeding the impact resistance described in the general specifications of this manual, as they are
- resistance described in the general specifications of this manual, as they are precision devices. Failure to do so may cause the unit to fail. Check if the unit operates correctly after transportation. When fumigants that contain halogen materials such as fluorine, chlorine, bromine, and iodine are used for disinfecting and protecting wooden packaging from insects, they cause malfunction when entering our products. Please take necessary precautions to ensure that remaining materials from fumigant do not enter our products, or treat packaging with methods other than fumigation (heat method). Additionally, disinfect and profect wood from insects before packing products.

GOT2000 Series User's Manual (Hardware) SH-081194ENG (Sold separately GOT2000 Series User's Manual (Utility) SH-081195ENG (Sold separately)

Compliance with the new China RoHS directive

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Note: This symbol mark is for China only.

含有有害6物质的名称、含有量、含有部件本产品中所含有的有害6物质的名称、含有量 4 万里、召 月 部 针 物质的 名称、含 有量、含 有 部 件如 下 表 所 示。 产 品 中 有 害 物 质 的 名 称 及 含 量 多溴联苯 多溴二苯醚 六价铬

- 本表格依据 SJ/T11364 的规定编制。 ○:表示该有害物质在该部件所有均质材料中的含量均在 GB/T26572 规定的限量要
- ×:表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T26572 规定的

Referenced Standard: GB/T15969.2 (Requirement of Chinese standardized law)

Before using the GOT

Connect the connector of the GOT to the connector of the battery.

Refer to the GOT2000 Series User's Manual (Hardware) for the connection

For details on the GOT specifications, installing instructions, wiring, maintenance and inspection, or checking procedure for the version and the compatible standard refer to the GOT2000 Series User's Manual (Hardware). Packing List

Description	Quantity	
GT25	1	
Battery (GT11-50BAT) (Attached to the GOT)	1	
Fiblio (for folio the COTA) the control or of	2 (for fixing the top and bottom of the GOT)	
Fitting (for fixing the GOT to the control panel)	2 (for fixing the right and left of the GOT)	
Screw (for fixing the fitting to the GOT)	6	
Nut (for fixing the fitting to the control panel)	6	
GT25 Open Frame Model General Description (This	1	

To mount the GOT, studs are necessary on the control pane To mount the GOT, studs are necessary on the control panel. You are required to prepare the studs. Align the studs with the installation holes of the fittings, and install the studs. The control panel requires a thickness of 1.5 mm to 4 mm. Attach the environmental protection sheet dedicated to the open frame model (sold separately) to the GOT display section. Or, attach a user-prepared environmental protection sheet. Not doing so may damage or soil the GOT or cause foreign matter to enter the GOT, resulting in a failure or malfunction.

1. FEATURES

- Abundant standard equipment
 Variety of connection with FA devices
 SD card interface compatible with the SDHC card having a large capacity and allowing high-speed communication
 Connection with various peripheral devices with the USB host Improved usability
 Abundant troubleshooting
 Easy and clear screen creation
 PC-like operation screen
 Support for the vertical installation
 Instanced compatibility with Mitsubishi Electric FA devices
 LED backlight
 Various extended functions supported
 Improved usability

- (6) Improved usability

 The GOT front face and the control panel surface are in the same plane.

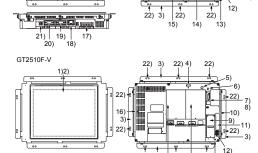
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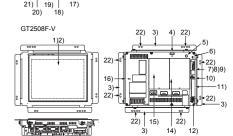
-6)

-10)

GT2512F-S

2. PARTS NAMES AND SETTINGS





The figure shows a GOT with the fittings installed on the top, bottom, right, and left.

VE 4525-1

21) 19)

20) 18)

17)

	20) 18)	Installed on the top, octohr, ingit, and left. Install the fittings on the top and bottom, or the right and left of the GOT.		
No.	Name	Description		
1)	Display screen	Displays the utility and the user-created screen.		
2)	Touch Pane	For operating the touch switches in the utility and the user- created screen		
3)	Unit installation fitting	Mounting fixtures for fixing the GOT to the control panel		
4)	Reset switch	Hardware reset switch		
5)	Installation switch	Used for OS installations at the GOT startup		
6)	SD card access LED	Lit: SD card mounted Blinking: SC card accessed No lit: SD card not mounted or SD card mounted (removable)		
7)	SD card interface	For installing a SD card		
8)	SD card cover	With a switching function for accepting and stopping the access to the SD card When the cover is opened: Access is prohibited When the cover is closed: Access is allowed		
9)	Battery	Houses the battery		
10)	POWER LED	Lit in blue : Power is properly supplied. Lit in orange : Screen saving Blinks in orange/blue : Backlight failure Not lit : Power is not supplied (You can check the LED status from the GOT rear face.)		
11)	Side interface	For installing a communication unit		
12)	USB interface (Host/Back face)	For connecting a USB mouse, a USB keyboard, or a USB barcode reader, and transferring or saving data (Connector shape: TYPE-A)		
13)	Hole for attaching a toble clamp Hole for attaching a cable clamp Hole for attaching a cable clamp (Recommended product: RSG-130-V0 of KITAGAWA INDUSTRIES CO_LTD. or equivalent)			

For switching on and off of the terminating resistor for the RS-422/485 communication port (Default (OFF)) For installing a communication unit or an option For the vertical installation, install the GOT so th points upward. points upward. Power input terminal, LG terminal, FG terminal For communicating with a controller or connecting a personal computer (Connector shape: RJ46 (modular jack), For communicating with a controller (Connector shape: D sub 9-pin (male)) For communicating with a controller (Connector shape: D 17) Power terminal 18) Ethernet interface 19) RS-232 interface For communicating with a controller (Connector shape: D sub 9-pin (female)) | USB interface (Device/ | For connecting personal computers (Connecting personal connecting personal computers (Connecting personal connecting personal computers (Connecting personal connecting p

3. SPECIFICATIONS

3.1 General Specifications

Item		Specifications						
Operating ambient temperature *1 Température ambiante de fonctionnement *1		0 to 55°C ^{*2} 0 à 55°C ^{*2}						
Storage ambient temperature			-20 to	00°C				
Operating ambient humidity		10 to	90% RH,	non-condensi	ng			
Storage ambient humidity		10 to	90% RH,	non-condensi	ng			
			Frequency	Acceleration	Half- amplitude	Sweep count		
Vibration resistance	with JIS B 3502 and IEC 61131-2 Under continuc vibratio	Under intermittent vibration	5 to 8.4Hz	-	3.5mm	10 times each in		
			8.4 to 150Hz	9.8m/s ²	-	X, Y and Z direction s		
			5 to 8.4Hz	-	1.75mm			
		vibration	8.4 to 150Hz	4.9m/s ²	·	-		
Shock resistance		3 times	each in X,	d IEC 61131-2 Y and Z direc	tions	. ,.		
Operating atmosphere		e dust, and o	lirect sunlig	as, flammable ht (Same as s				
Operating altitude*3 Installation location				562 ft) max.				
			Inside coi	ntrol panel				
Overvoltage category*4	II or less							
Pollution degree*5				less				
Cooling method				ooling				
Grounding	ground	cable that ha	s a cross-s ect the gro	ance of 100 Ω ectional area und cable to t	of 2 mm ² c	r more.		
Type rating			UL TV	me 1*6				

*1: The operating ambient temperature includes the temperature inside the enclosure of the control panel to which the GOT is installed. La température ambiante de fonctionnement inclut la température à l'intérieu du boîtier du tableau de commande sur lequel le GOT est installé.

2: When mounting a MELSECNET7H communication unit (GT15-J61BT13), the GT15-J71BR31), or CC-Link communication unit (GT15-J61BT13), the

GT15-J61BT13), it CC-Link communication unit (GT15-J61BT13), the operating ambient temperature must be reduced 5°c against the maximum values described in general specifications.

Lors du montage d'un module communication MELSECNET/H (GT15-J71LP23-25, GT15-J71BR13) ou du module de communication CC-Link (GT15-J61BT13), la température ambiante de fonctionnement doit être réduite de 5°c par rapport aux valeurs maximales décrites dans les spécifications générales.

générales.

3: Do not use or store the GOT under pressure higher than the atmospheric pressure of altitude 0m (0ft.).
Failure to observe this instruction may cause a malfunction.
When an air purge is made inside the control panel by adding pressure, there may be a clearance between the surface sheet and the screen making it difficult may be a clearance between the surface sheet and the screen making it diffit to use the touch panel, or the sheet may come off.

*4: 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 for which electrical power is supplied from fixed facilities.

fixed facilities.

The surge voltage withstand level for up to the rated voltage of 300 V is 2500 V.

*5: This index indicates the degree to which conductive material is generated in the environment where the equipment is used.

In pollution degree 2, only non-conductive pollution occurs but temporary conductivity may be produced due to condensation.

*6: This is for use on a flat surface of a Type 1 enclosure.

Refer to the GOT2000 Series User's Manual (Hardware) for details on the performance

3.2 Power Supply Specifications

If an instantaneous power failure occurs in the power supply and continues for more than the permissible period, the GOT will be reset.

Make sure to power on the unit more than 5 seconds after power-off.

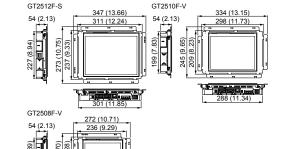
3.2.1 For GOTs powered from the 100 to 240VAC

	Item		Specifications				
	item	GT2512F-STNA	GT2510F-VTNA	GT2508F-VTNA			
Power su	upply voltage	Power supply voltage AC100 to 240VAC (+10%, -15%)					
Power fr	equency		50/60Hz ± 5%				
Max. apparent power		80VA	AV08	70VA			
	maximum load	35W or less	34W or less	31W or less			
Power consum ption	Stand alone	14W	12W	11W			
	Stand alone with backlight off	7W	7W	7W			
Inrush current		60A or less (2ms, operating ambient temperature 25, maximum load)					
Allowable failure tir	e momentary power ne	20 ms or less (100VAC or more)					
Noise immunity		1,500Vp-p noise voltage, 1µs noise width (when measuring with a noise simulator under 25 to 60Hz noise frequency)					
Dielectric	withstand voltage	1500VAC for 1 minute across power terminals and earth					
Insulation resistance		10M or more across power terminals and earth by a 500V DC insulation resistance tester					
Applicab	le wire size	0.75[mm ²] to 2[mm ²]					
Applicab	le solderless terminal	Solderless termin	al for M3 screw RA V2-N3A, FV2-N3A				
Applicab	le tightening torque	0.5[Nem] to 0.8[Nem]					

3.2.2 For GOTs powered from the 24VDC power

	Item		Specifications			
	item	GT2512F-STND	GT2510F-VTND	GT2508F-VTND		
Power su	ipply voltage	DC24V (+25%, -20%)				
_	maximum load	37W or less	33W or less	31W or less		
Power	Stand alone	13W	10W	8W		
ption	Stand alone with backlight off	6W	6W	6W		
Inrush current		5A or less (20ms, operating ambient temperature 25, maximum load)				
Allowable momentary power failure time		10 ms or less				
Noise im	munity	500Vp-p noise voltage, 1 μ s noise width (when measuring with a noise simulator under 25 to 60Hz noise frequency)				
Dielectric	withstand voltage	350VAC for 1 minute across power terminals and earth				
Insulation	n resistance	10M or more across power terminals and earth by a 500V DC insulation resistance tester				
Applicab	le wire size	0.75[mm ²] to 2[mm ²]				
Applicab	le solderless terminal	Solderless termin	al for M3 screw RA V2-N3A, FV2-N3A			
Applicable tightening torque (Terminal block terminal screw)		0.5[N•m] to 0.8[N•m]				

3.3 External Dimensions GT2512F-S



4. EMC AND LOW VOLTAGE DIRECTIVE

romagnetic compatibility (EMC) and electrical safety, regulatory s are established in each country. standards are established in each country.

Especially, for the products to be sold in European countries, conformance to the EMC Directive, which is one of the European Directives, has been mandatory as the EMC standards since 1996. In addition, conformance to the Low Voltage Directive, another European Directive, has also been mandatory as the electrical safety standards since 1997.

Directive, has also been mandatory as the electrical safety standards since 1997.
In European countries, if a product meets the requirements of the EMC Directive or the Low Voltage Directive, the product's manufacturer must declare conformity of the product and affix the CE mark to the product. In some countries or regions other than European countries, the products manufacturer also must declare conformity of the product and affix a designated mark to the product (example: UKCA mark in the UK).

Authorized representative in the EU and the UK is shown below. Name : Mitsubishi Electric Europe BV Address : Mitsubishi Electric Europe BV Address : Mitsubishi Electric Platz 1, 40882 Ratingen, Germany This section describes the EMC Directive and Low Voltage Directive as examples for conformance to EMC and electrical safety standards. EMC and electrical safety standards in each country are stipulated to be consistent with the corresponding international standards. When the requirements are consistent with the same standards, common measures are taken to conform to the standards in different countries. For the EMC Directive, regulatory compliance with equivalent EMC standards are required for example in the UK and Korea. For the Low Voltage Directive, regulatory compliance with equivalent EMC standards are required for example in the UK and Korea. For the Low Voltage Directive, regulatory compliance with equivalent electrical safety standards are required for example in the UK and Korea. For the Low Voltage Directive, regulatory compliance with equivalent electrical safety standards are required for example in the UK and Korea. For the Low Voltage Directive, regulatory compliance with equivalent electrical safety standards are required for example in the UK and Korea. For the Low Voltage Directive, regulatory compliance with equivalent electrical safety standards are required for example in the UK and Korea. For the Low Voltage Directive, regulatory compliance with equivalent electrical safety standards are required fo

4.1 Requirements to Meet EMC Directive

EMC Directives are those which require "any strong electromagnetic force is not output to the external.Emission (electromagnetic interference)" and "It is not influenced by the electromagnetic wave from Items (I the not miletiled by the electromagnetic wave for the external.: Immunity (electromagnetic sensitivity)". Items 4.1.1 through 4.1.3 summarize the precautions to use GOT and configure the mechanical unit in order to match the EMC directives. We exerted our best efforts on the descriptions herein based on the requirements and standards; however, we do not guarantee that the entire equipment produced according to the descriptions complies with the above-mentioned directives. The manufacturer of equipment must determine how to make the equipment compliant with the EMC Directive and carry out the conformity assessment.

4.1.1 EMC directive

The standards of the EMC Directive are shown below.

Applied standard	Test standard	Test details	Standard value
	CISPR16-2-3 Radiated noise*1	Electromagnetic emissions from the product are measured.	30M-230MHz QP: 30dB _µ V/m (30m in measurement range)*2,*3 230M-1000MHz QP: 37dB _µ V/m(30m in measurement range)*2,*3
	CISPR16-2-1 Conducted noise*1	Electromagnetic emissions from the product to the power line is measured.	150k-500kHz QP: 79dB, Mean: 66dB*2 500k-30MHz QP: 73dB, Mean: 60dB*2
	IEC61000-4-2 Electrostatic immunity*1	Immunity test in which static electricity is applied to the cabinet of the equipment.	± 4kV Contact discharge ± 8kV Aerial discharge
EN61131-2 : 2007	IEC61000-4-3 Radiated electromagnetic field AM modulation*1	Immunity test in which field is irradiated to the product.	80-1000MHz: 10V/m 1.4-2GHz:3V/m 2.0-2.7GHz: 1V/m 80%AM modulation@1kHz
	IEC61000-4-4 Fast transient burst noise*1	Immunity test in which burst noise is applied to the power line and signal lines.	Power line: 2kV Digital I/O: 1kV Analog I/O: 1kV Signal lines: 1kV
	IEC61000-4-5 Surge immunity 1	Immunity test in which lightening surge is applied to the product.	AC power type Power line (between line and ground): ±2kV Power line (between lines) : ±1kV Data communication port : ±1kV DC power type Power line (between line and ground): ±0.5kV Power line (between lines) : ±0.5kV Data communication port : ±1kV
	IEC61000-4-6 Conducted RF immunity*1	Immunity test in which a noise inducted on the power and signal lines is applied.	Power line: 10V Data communication port: 10V

Panel

26(1.02)

17(0.67) 36(1.42)

35(1.38)

18(0.71)

14(0.55)

28(1.10)

0(0.39)

28(1.10) 33(1.30) 32(1.26)

0(0.39) 51(2.01) 14(0.55)

28(1.10) 14(0.55) 32(1.26)

0(0.39)

The studs on the control panel must have strength adequate to withstand a tight-ening torque of 0.9 N·m or more. Make sure that no foreign matter such as welding waste is at and around the bases

To mount the GOT on the control panel, studs are necessary.

Align the studs with the installation holes of the fittings, and install the studs.

The fittings must be installed on the top and bottom, or the right and left of the GOT.

For GT2512F, you are recommended to install the fittings on the long sides of the

nuts on the studs in the specified torque range (0.8 N•m to 0.9 N•m) with a

ensions show the measurements for installing fittings on the control

214(8.43 (+2(0.08) 0(0))

187(7.36 +2(0.08) 0(0))

ally, install studs on the control panel. rmation on how to install studs, refer to the following

194(7.64) +2(0.08) 0(0)) 158(6.22 +2(0.08) 0(0))

5.3.1 Stud specifications

Use the studs that satisfy the following specifications

5.3.2 Distance between studs

(1) Measurements based on the screen cente

Short side of the GOT

The C to F dime

5.3 Stud

Applied standard	Test standard	Test details	Standard value
EN61131-2 : 2007	IEC61000-4-8 Power supply frequency magnetic field immunity	Test for checking normal operations under the circumstance exposed to the ferromagnetic field noise of the power supply frequency (50/60Hz).	30 A/m
	IEC61000-4-11 Instantaneous power failure and voltage dips immunity	Test for checking normal operations at instantaneous power failure.	AC power type 0.5 cycle 0% (interval 1 to 10s) 250/300 cycle 0% 10/12 cycle 40% 25/30 cycle 70%

**I: The GOT is an open type device (device installed to another device) and must be installed in a conductive control panel.

The above test items are conducted in the condition where the GOT is installed on the conductive control panel and combined with the Mitsubishi Electric PLC.

**2: QP (Quasi-Peak): Quasi-peak value, Mean: Average value

**3: The above test items are conducted in the following conditions.

30M-330MHz QP : 47dBµV/m (10m in measurement range)

230M-1000MHz QP : 47dBµV/m (10m in measurement range)

4.1.2 Installation on a control panel

The GOT is an open type device (device installed to another device) and must be installed in a conductive control panel. It not only assure the safety but also has a large effect to shut down the enerated from GOT, on the control panel

noise generated fr (1) Control Panel (a) The control panel must be conductive

(b) When fixing a top or bottom plate of the control panel with bolts. do not coat the plate and bolt surfaces so that they will come into

And connect the door and box using a thick grounding cable in

order to ensure the low impedance under high frequency.
(c) When using an inner plate to ensure electric conductivity with the control panel, do not coat the fixing bolt area of the inner plate and control panel to ensure conductivity in the largest area as

(d) Ground the control panel using a thick grounding cable in order to

ensure the low impedance under high frequency.

(e) The diameter of cable holes in the control panel must be 10cm (3.94in.). In order to reduce the chance of radio waves leaking out, ensure that the space between the control panel and its door is small as possible.

Paste the EMI gasket directly on the painted surface to seal the space so that the leak of electric wave can be suppressed.

Our test has been carried out on a panel having the damping characteristics of 37dB max. and 30dB mean (measured by 3m

method with 30 to 300MHz).

(2) Connection of power and ground wires
Ground and power supply wires for the GOT must be connected as described below.

(a) Provide a grounding point near the GOT. Short-circuit the LG and FG terminals of the GOT (LG: line ground, FG: frame ground) and ground them with the thickest and shortest wire possible (The wire length must be 30cm (11.81in.) or shorter.)

The LG and FG terminals function is to pass the noise generated in the PC system to the ground, so an impedance that is as low as possible must be ensured. As the wires are used to relieve the noise, the wire itself carries a large noise content and thus short wiring means that the wire is prevented from acting as an

Note) A long conductor will become a more efficient antenna at

high frequency. (b) The earth wire led from the earthing point must be twisted with $% \left(\frac{1}{2}\right) =0$ the power supply wires.

By twisting with the earthing wire, noise flowing from the power supply with the earthing wire, noise flowing from the power supply with the earthing wire, noise flowing from the power supply with the earthing wire, noise flowing from the power supply with the earthing wire, noise flowing from the power supply with the earthing wire, noise flowing from the power supply wires.

supply wires can be relieved to the earthing. However, if a filter is installed on the power supply wires, the wires and the earthing wire may not need to be twisted

4.1.3 Noise filter (power supply line filter)

05.5(4.

± 0.15(0.006

right and left

GT2512F-S

GT2510F-\

The noise filter (power supply line filter) is a device effective to reduce conducted noise. Except some models, installation of a noise filter onto the power supply lines is not necessary. However conducted noise can be reduced if it is installed. (The noise filter is generally effective for reducing conducted noise in the band of 10MHz or less.) Use a noise filter equivalent to the following noise filters (double π-type filters).

inter equivalent to the following hoise filters (double fi-type filters).							
Model name FN343-3/05 FN660-6/06 RSHN-2003							
Manufacturer	SCHAFFNER	SCHAFFNER	TDK				
Rated current	3A	6A	3A				
Rated voltage	250V						

05.5(4.1

± 15(0.006

(3) Measurements for the horizontally-oriented GOT with fittings on its

C5

Back of the control panel

58(2.28)± 0.15(0.006)

160(6.30)± 0.15(0.006)

5.5(4.1

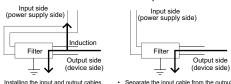
18.5(4.6

4.5(4.5

58(2.28)± 0.15(0.006)

The precautions required when installing a noise filter are described

Do not install the input and output cables of the noise filter together to prevent the output side noise will be inducted into the input side cable where noise has been eliminated by the noise filer.



Installing the input and output cables together will cause noise induction.

(2) Connect the noise filter's ground terminal to the control panel with the shortest cable as possible (approx. 10cm (3.94 in.) or less).

4.2 Requirements for Compliance with the Low **Voltage Directive**

The Low Voltage Directive requires each device which operates with power supply ranging from 50VAC to 1000V and 75VDC to 1500V to satisfy necessary safety items.

In the Sections from 4.2.1 to , cautions on installation and wiring of the

GOT to conform to the Low Voltage Directive requires are described. We have put the maximum effort to develop this material based on the requirements and standards of the Directive that we have collected. However, compatibility of the devices which are fabricated according to the contents of this manual to the above Directive is not guaranteed. Each manufacturer who fabricates such device should make the final judgement about the application method of the Low Voltage Directive and the product compatibility.

4.2.1 Standard subject to GOT

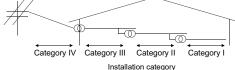
Standard applied to GOT : EN61131-2 Programmable controllers - Equipment requirements and tests

4.2.2 Power supply

The insulation specification of the GOT was designed assuming installation category II. Be sure to use the installation category II power supply to the GOT. The installation category indicates the durability level against surge

voltage generated by lightning strike.

Category I has the lowest durability; category IV has the highest



Installation category

Category II indicates a power supply whose voltage has been reduced by two or more levels of isolating transformers from the public power

4.2.3 Control panel

Because the GOT is open type equipment (device designed to be stored within another device), be sure to use it only when installed in a control

(1) Shock Protection

In order to prevent those who are unfamiliar with power facility, e.g., an operator, from getting a shock, make sure to take the following measures on the control panel.

(a) Store the GOT within the control panel locked, and allow only

those who are familiar with power facility to unlock the panel

(b) Build the structure in order that the power supply will be shut off when the control panel is opened.

(2) Dustproof and waterproof features

The control panel also provides protection from dust, water and other substances. Insufficient ingression protection may lower the insulation withstand voltage, resulting in insulation destruction. The insulation in the GOT is designed to cope with the pollution level 2, so use in an environment with pollustion level 2 or better

Pollution level 1: An environment where the air is dry and conductive dust does not exist.

Pollution level 2: An environment where conductive dust does not usually exist, but occasional temporary conductivity occurs due to the accumulated dust. Generally, this is the level for inside the control pane

4.2.4 Grounding

4.2.5 External wiring

Rated voltage of haz voltage area

5. INSTALLATION

Mounting GOT

5.2 Panel Cutting Dimensions

Horizontal

Back of the control panel

Open an installation hole on the control panel with the d

50 VAC or below

(1) External devices

equivalent to a control room or on the floor of a typical

An environment where conductive dust exists and conductivity may be generated due to the accumulation

An environment for a typical factory floor. Continuous conductivity may occur due to rain, snow, etc. An outdoor environment.

The following are applicable ground terminals. Use them in the grounded

Be sure to ground the GOT for ensuring the safety and complying with the EMC Directive.

If the external device connected to the GOT has a hazardous

The reinforced insulation is such insulation that has withstand

Surge withstand voltage (1.2/50µs)

nsions as shown below

Vertical

Back of the control panel

voltage circuit, provide a reinforced insulation to isolate the interface circuit to the GOT from the hazardous voltage circuit.

(2) Reinforced insulation

Functional grounding $\mathrel{\perp}$: Improves the noise resistance

voltages as shown in the following table.

5.1 Control Panel Inside Dimensions for

inside the control panel. Do not install the GOT and the unit in prohibited areas for the installation.

Install the GOT on the control panel out of the way for the equipment

Some cables may need to be longer than the specified dimensions when connecting to the GOT. Therefore, consider the connector dimensions and bending radius of the cable as

Reinforced Insulation Withstand Voltage (Installation Category II, source : IEC664)

*1: This value is for use of the coaxial cable 3C-2V (JIS C 3501).

For specifications of the cable, refer to the GOT2000 Series Connection Manus for a controller used.

*2: This value differs depending on the cable used.

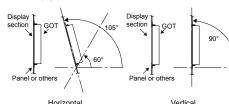
*3: When opening or closing the battery cover: 72(2.83) or more

5.5 Control Panel Inside Temperature and Installation Angle When installing the GOT to a panel, set the display section as shown

below.Using the GOT with the installation angle other than the following deteriorates the GOT earlier. Installing the GOT horizontally When installing the GOT with the installation angle between 60 to

105°, the temperature inside the control panel must be within 55°C. When installing the GOT with the installation angle other than between 60 to 105°, the temperature inside the control panel must be within 40 °C.

When the GOT vertically
When the GOT is installed a 90° angle, the control panel inside
temperature must be within 55°C. When the GOT is installed at any angle other than 90°, the control panel inside temperature must be within 40°C



5.6 Installing the GOT

To fasten the fittings on the control panel, studs are neccessary.

1) Install the supplied fittings on the GOT with screws. 2) Align the installation holes of the fittings with the study, and insert

the studs in the holes. The Study in the Holles.

For details on the GOT installing instructions, refer to the GOT2000 Series User's Manual (Hardware).

0(0)

04.5(4.

5.4 Mounting Position

4.5(2.5

74.5(2.93

When mounting the GOT, the following clearances must be maintained from other structures and devices.

64.5(2.54 4.5(2.93

0(0)

Some cables may need to be longer than the specified dimensions when connecting to the GOT.

Therefore, consider the connector dimensions and bending radius of the cable as well for installation.

For the lead-in allowance for cables at the bottom of the GOT, refer to

the GOT2000 Series User's Manual (Hardware)

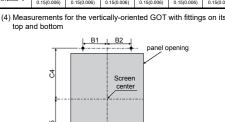
For the vertical installation, install the GOT so that the vertical installation arrow printed on the GOT rear face points upward.

Panel thickness Vertical (0.06 to 0.16 inch) (0.06 to 0.16 inch)

According to the dimensions in the following table, leave clearances between the GOT and the other devices. The values enclosed in square brackets apply to the case where no other equipment TO

ì	generating radiated noise (su near the GOT. However, keep to 55°C or lower.		temperature	of the GOT
			Un	it: mm(inch)
ĺ	Item	GT2512F-S	GT2510F-V	GT2508F-V
I		50/0.00		58(2.28) or
ı	GOT only	58(2.28)		more
ı	,	[28(1.10)	or morej	[39(1.54) or
ı				more]

	GOT only	58(2.28) or more [28(1.10) or more] [39(1.54) or more]				
	Ethernet communication unit is fitted	58(2.28)	or more[28(1.10) or more]		
	Bus connection unit is fitted		or more or more]	33(1.30) or more [39(1.54) or more]		
	Serial connection unit is fitted	58(2.28)	or more[28(1.10]	or more]		
A	CC-Link communication unit (GT15-J61BT13) fitted	tted 58(2.28) or more[28(1.10)		or more]		
A	MELSECNET/H communica- tion unit (coaxial) fitted*1	58(2.28) or more [48(1.89) or more]	58(2.28) or more [55(2.17) or more]	77(3.03) or more		
	MELSECNET/H communication unit(optical) fitted*2	58(2.28) or more[28(1.10		or more]		
	CC-Link IE Controller Network communication unit fitted	58(2.28) 0	or more]			
	CC-Link IE Field Network com- munication unit fitted	58(2.28) 0	or more[28(1.10]	or more]		
	Printer unit fitted	58(2.28) c	or more[28(1.10]	or more]		
	External I/O unit fitted		or more[28(1.10]			
	Sound output unit fitted		or more[28(1.10)			
В		[2 Verti	ontal: 88(3.46) o 28(1.10) or more cal: 58(2.28) or 28(1.10) or more	e] more		
С	When the SD card is used		or more or more]	58(2.28)or more		
	When the SD card is not used	58(2.28)	or more[28(1.10) or more]		
D		[2 Vertio [2	ontal: 58(2.28) o 28(1.10) or more cal: 88(3.46) or 28(1.10) or more	e] more e]		
E*3	-	100(3.94)	or more[20(0.79) or more]		



Back of the control panel 58(2.28)± 58(2.28)± 0.15(0.006) 0.15(0.006) 161(6.34)± 161(6.34)± 0.15(0.006) 0.15(0.006) GT2510F-V 58(2.28)± 58(2.28)± 126(4.96)± 134(5.28)± 0.15(0.006) 0.15(0.006) 0.15(0.006) 0.15(0.006)

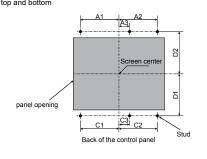
D3 D4

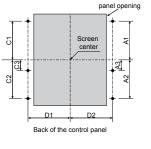
(5) Measurements for the vertically-oriented GOT with fittings on its right and left

Horizontal Vertical Screen center Screen cente Back of the control panel Back of the control panel

214(8.43) 103(4.06) 2(0.08), 0(0)) (+2(0.08), 0(0)) 111(4.37) 269(10.59) (134.5(5.30) (+2(0.08), 0(0)) (+1(0.04), 0(0)) GT2512F-S 134.5(5.30) 187(7.36) 89.5(3.52) +2(0.08), 0(0)) (+1(0.04), 0(0)) 97.5(3.84) 234(9.21) (17(4.61) (+2(0.08), 0(0)) (+1(0.04), 0(0)) 117(4.61) GT2510F-V 158(6.22) 75.25(2.96) (+2(0.08), 0(0)) (+1(0.04), 0(0)) 82.75(3.26) 194(7.64) 97.5(3.84) (+2(0.08), 0(0)) (+1(0.04), 0(0)) 96.5(3.80) GT2508F-V

(2) Measurements for the horizontally-oriented GOT with fittings on its





5. INSTALLATION

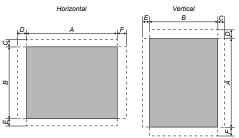
5.1 Dimensions intérieures du tableau de commande pour le montage du GOT

Installez le GOT sur le tableau de commande en laissant de l'espace pour le dispositif à l'intérieur du tableau de commande. N'installez pas le GOT et le module dans des zones où l'installation est interdite.

aute applicable critatins dàbles peuvent étre plus longs que les dimensions spécifiées lors de la onnexion au GOT. Par conséquent, prenez également en compte les dimensions du onnecteur et le rayon de courbure du câble pour l'installation.

5.2 Cotes de dècoupe du panneau

Ouvrez un orifice d'installation sur le tableau de co cotes indiquées ci-dessous.



Arrière du tableau de commande Arrière du tableau de commande

							Unité	mm (pouce)
Modèle	Position d' installation du raccord (sur le GOT)	А	В	С	D	E	F	Épaisseur du pan- neau
GT2512F-S	Côté long du GOT	269(10,59) (+2(0,08),	214(8,43) (+2(0,08), 0(0))	28(1,10)	17(0,67)	36(1,42)	26(1,02)	
	Côté court du GOT	0(0))		10(0,39)	35(1,38)	18(0,71)	44(1,73)	
GT2510F-V	Côté long du GOT	234(9,21) (+2(0,08),	187(7,36) (+2(0,08), 0(0))	28(1,10)	33(1,30)	32(1,26)	33(1,30)	1,5(0,06) à
	Côté court du GOT	0(0))		10(0,39)	51(2,01)	14(0,55)	51(2,01)	4(0,16)
GT2508F-V	Côté long du GOT	194(7,64) (+2(0,08),	158(6,22) (+2(0,08),	28(1,10)	14(0,55)	32(1,26)	29(1,14)	
	Côté court du GOT	0(0))	0(0))	10(0,39)	32(1,26)	14(0,55)	47(1,85)	

Les cotes C à F indiquent les mesures d'installation des raccords sur le

De plus, installez les goujons sur le tableau de commande Pour plus d'informations sur l'installation des gouions, voir ce qui suit,

5.3 Goujon

5.3.1 Spécifications des goujons

Utilisez les goujons qui répondent aux spécifications suivantes

1	Diamètre	Longueur
	M4	10 mm (0,39 pouce) ou plus

Les goujons sur le tableau de commande doivent avoir une résistance suffisante pour supporter un couple de serrage de 0,9 N·m ou plus. Assurez-vous qu'aucune matière étrangère, comme des déchets de soudure, ne se colle sur la base des goujons.

Serrez les écrous sur les goujons dans la plage de couple de serrage spécifiée (entre 0,8 et 0,9 N•m) avec une clé pour écrous M4.

5.3.2 Distance entre les goujons

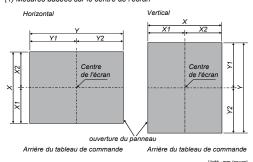
Pour monter le GOT sur le tableau de commande, des goujons sont

Alignez les goujons avec les orifices d'installation des raccords, et

Anighte les goujons. Installez les goujons. Les raccords doivent être installés au-dessus et en dessous, ou à droite

et à gauche du GOT.
Pour GT2512F, il vous est conseillé d'installer les raccords sur les côtés longs du GOT

(1) Mesures basées sur le centre de l'écrar



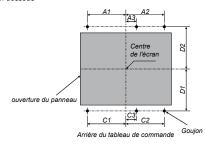
(2) Mesures pour le GOT à l'horizontale avec les raccords au-dessus et

97.5(3.84)

134,5(5,30

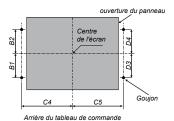
117(4,61

103(4,06)



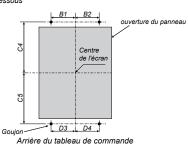
Modèle	A1	A2	A3	C1	C2	C3	D1	D2
GT2512F-S	98(3,86) ± 0,15(0,006)	113(4,45) ± 0,15(0,006)	7,5(0,30) ± 0,15(0,006)	98(3,86) ± 0,15(0,006)	113(4,45) ± 0,15(0,006)	7,5(0,30) ± 0,15(0,006)	128,5(5,06) ± 0,15(0,006)	±
GT2510F-V	105,5(4,15) ± 0,15(0,006)	105,5(4,15) ± 0,15(0,006)	0(0)	±	105,5(4,15) ± 0,15(0,006)	0(0)	114,5(4,51) ± 0,15(0,006)	±
GT2508F-V	64,5(2,54) ± 0,15(0,006)	74,5(2,93) ± 0,15(0,006)	-	64,5(2,54) ± 0,15(0,006)	74,5(2,93) ± 0,15(0,006)	-	104,5(4,11) ± 0,15(0,006)	±

(3) Mesures pour le GOT à l'horizontale avec les raccords à droite et à



					Ur	nité : mm (pouce)
Modèle	B1	B2	C4	C5	D3	D4
GT2512F-S	75,5(2,97)±	79,5(3,13)±	160(6,30)±	175(6,89)±	75,5(2,97)±	79,5(3,13)±
	0,15(0,006)	0,15(0,006)	0,15(0,006)	0,15(0,006)	0,15(0,006)	0,15(0,006)
GT2510F-V	58(2,28)±	58(2,28)±	161(6,34)±	161(6,34)±	58(2,28)±	58(2,28)±
	0,15(0,006)	0,15(0,006)	0,15(0,006)	0,15(0,006)	0,15(0,006)	0,15(0,006)
GT2508F-V	58(2,28)±	58(2,28)±	126(4,96)±	134(5,28)±	58(2,28)±	58(2,28)±
	0,15(0,006)	0,15(0,006)	0,15(0,006)	0,15(0,006)	0,15(0,006)	0,15(0,006)

(4) Mesures pour le GOT à la verticale avec les raccords au-dessus et

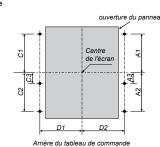


126(4,96)± (5) Mesures pour le GOT à la verticale avec les raccords à droite et à

161(6,34)± 0,15(0,006)

161(6,34)± 0,15(0,006)

58(2,28)± 0,15(0,006)

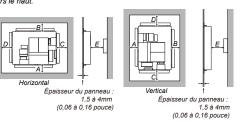


05,5(4,15) 105,5(4,1 5,5(4,15 14,5(4,51) 118,5(4, 0(0) 0(0)

5.4 Position de montage

Lors du montage du GOT, laissez les espaces suivants pour les autres structures et dispositifs. Certains câbles peuvent être plus longs que les dimensions spécifiées lors de la connexion au GOT.

Par conséquent, prenez également en compte les dimensions du connecteur et le rayon de courbure du câble pour l'installation. Pour connaître l'espace à laisser pour les câbles sous le GOT, référezvous au manuel GOT2000 Series User's Manual (Hardware). Pour l'installation à la verticale, installez le GOT de sorte que la flèche d'installation à la verticale installez le GOT de sorte que la flèche d'installation à la verticale instrumée sur la face arrière du GOT pointe vers le haut.



Laissez les espaces entre le GOT et les autres dispositifs en fonction des dimensions contenues dans le tableau suivant. Les valeurs entre parenthèses s'appliquent au cas où aucun dispositif générant des émissions sonores (comme un contacteur) ou de la chaleur n'est installé

nez la température ambiante du GOT à 55°C ou moins

	Article	GT2512F-S	GT2510F-V	ité: mm (pouc GT2508F-V		
	711006	0.120121-0	3723707 -V	58(2,28) OL		
	GOT uniquement	58(2,28, [28(1,10,	plus [39(1,54) or plus]			
	Unité de communication Ethernet encastrée	58(2,28) ou plus[28(1,10) ou plus]				
	Unité de connexion de bus encastrée	58(2,28) [28(1,10)	33(1,30) ou plus [39(1,54) ou plus]			
	Unité de connexion série encastrée	58(2,28)) ou plus]			
	Module de communication CC- Link (GT15-J61BT13) encastré) ou plus]			
Α	Module de communication MELSECNET/H (coaxial) encastré ^{*1}	58(2,28) ou plus [48(1,89) ou plus]	58(2,28) ou plus [55 (2,17) ou plus]	77 (3,03) o plus		
	Module de communication MELSECNET/H (optique) encastré ^{*2}	58(2,28) ou plus[28(1,10) ou plus]				
	Module de communication réseau de contrôleur CC-Link IE encastré	58(2,28)) ou plus]			
	Module de communication réseau de champ CC-Link IE encastré	58(2,28)) ou plus]			
	Imprimante encastrée	58(2,28)) ou plus]			
	Module d'E/S externe encastré	58(2,28)) ou plus]			
	Module de sortie acoustique encastré	,) ou plus]			
В	[28(1,10) Vertical: 58(2		ntal: 88 (3,46) c 28(1,10) ou plus cal: 58(2,28) ou 28(1,10) ou plus	ou plus] 28) ou plus		
С	Quand la carte SD est utilisée	58(2,28) ou plus [28(1,10) ou plus]		58(2,28) ou plus		
	Quand la carte SD n'est pas utilisée) ou plus]			
D		Horizontal: 58(2,28) ou plus [28(1,10) ou plus] Vertical: 88 (3,46) ou plus [28(1,10) ou plus]				
ı	E*3	100 (3,94) ou plus[20 (0,79) ou plus]				

- Pour connaître les spécifications du câble, référez-vous au manuel GOT2000 Series Connection Manual for a controller used.
- *2. Cette valeur diffère selon le câble utilisé *3: Pour ouvrir ou fermer le couvercle de la batterie : 72 (2,83) ou plus

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5.5 Température intérieure et angle d'installation du tableau de commande

Lors de l'installation du GOT sur un panneau, réglez la zone d'affichage comme indiqué ci-dessous. Si l'angle d'installation est différent de celui indiqué. le GOT se détériore

Installation du GOT à l'horizontale Lors de l'installation du GOT avec un angle d'installation compris entre

60 et 105°, la température à l'intérieur du tableau de commande doit étre d'environ 55°C. Lors de l'installation du GOT avec un angle d'installation non compris entre 60 et 105°, la température à l'intérieur du tableau de commande doit être d'environ 40°C.

Installation du GOT à la verticale Lors de l'installation du GOT avec un angle de 90°, la température à l'intérieur du panneau de commande ne doit pas dépasser 55°C. Lors de l'installation du GOT avec tout autre angle que 90°, la température



Horizontal 5.6 Installation du GOT

Pour serrer les raccords sur le tableau de commande, des goujons sont

Vertical

1) Installez les raccords fournis sur le GOT avec des vis.

7) Intaliate la accession anni sun a GOT area des vis. 2) Alignez les orifices d'installation des raccords avec les goujons, et insérez les goujons dans les orifices. Pour des détails sur les instructions d'installation du GOT, référez-vous au manuel GOT2000 Series User's Manual (Hardware)

6. MAINTENANCE AND INSPECTION Refer to the GOT2000 Series User's Manual (Hardware) for

maintenance and inspection for the GOT.