

### **GT25 General Description**

GT2512-STBD GT2510-VTBA GT2510-VTWD GT2508-VTBA GT2508-VTWD GT2505-VTBD 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.



		3
MODEL	GT25-U-GD-E	4
Model	1D7MN4	5
code	I D7 WIN4	6
IB(NA)-08	00537ENG-K(2008)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 manual carefully and pay full attention to

product. In this manual, the safety precautions are ranked as "WARNING" and "CAUTION".

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

**⚠** CAUTION

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

important 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 or cable may keep the outputs or 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 about a standard to the standard
- 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 accident due to false output or malfunction. Do not use the GOT as the warning device that may cause a serious accident. An independent and redundant hardware or mechanical interlock 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.
- output or malfunction. When the GOT backlight has a failure, the POWER LED blinks (orange/blue), the display section dims, and inputs by a touch switch are disabled. Failure to observe this instruction may result in an accident due to incorrect output or malfunction.
- course of Use Instruction may result in an accident due to incorrect output or maffunction.

  Even if the display section dims, inputs by a touch switch may still be available. This may cause an unintended operation of the buch switch.

  For example, if an operator assumes that the display section has dimmed because of the screen save function and touches the display section to cancel the screen save, a buch switch may be activated. The GOT backlight failure can be checked with a system signal of the GOT. The display section of the GOT is an analog-resistive type touch panel. Do not buch two points or more simultaneously on the display section. Doing so may cause a touch switch mear the touched points to operate unexpectedly, or may cause an accident due to an incorrect output or mailuration.
- malfunction."
  When programs or parameters of the controller (such as a PLC) that is monitored by the GOT are changed, be sure to reset the GOT, or turn on the unit again after shutting off the power as soon as possible. Not doing so can cause an accident due to false output or malfunction. If a communication fault (including cable disconnection) occurs during monitoring on the GOT, communication between the GOT and PLC CPU is suspended an the GOT becomes inoperative.
- noperative. : The PLC CPU becomes faulty and the GOT becomes

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#### **⚠ WARNING**

- To maintain the security (confidentiality, integrity, and availability) of the GOT and the system against unauthorized access, DoS<sup>11</sup> attacks, computer viruses, and other cyberatlacks from unreliable networks and devices via network, lay appropriate measures such as firewalls, virtual private networks (VPNs), and appropriate measures sources in ewaits, virtual private measures (1.1.15), antivirus solutions.

  Mitsubishi Electric shall have no responsibility or liability for any problems involving GOT trouble and system trouble by DoS attacks, unauthorized
- g GOT trouble and system trouble by DoS attacks, unautrorized computer viruses, and other cyberattacks.

  A denial-of-service (DoS) attack disrupts services by overloading s or exploiting vulnerabilities, resulting in a denial-of-service (DoS) state
- systems or exploiting vulnerabilities, resulting in a denial-of-service (DoS) state Products with the CI.I, 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 nonhazardous locations only. This mark indicates that the product is certified for use in the Class I, Division2 environment where flammable gases, vapors, or liquids are not likely to exist under normal conditions.
- This mark indicates that the product is semi-direct and indicates that the product is defined 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.

  Warning Explosion Hazard Substitution of any component may impair suitability for Class I, Division 2.

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  Warning Explosion Hazard Substitution of any component may impair suitability for Class I, Division 2.

  The side interface and extension interface of this equipment cannot be used in Class I, Division 2 evironments.

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

- local non dangereux. Ce logo indique que le produit est homologué pour utilisation en environnen de Class I. Division 2 où. dans des circonstances anormales. il peut v avoir
- re Class I, Division 2 ou, dans des circonstances anormales, il peut y avoir résence de gaz, vapeurs ou liquides inflammables. Si le produit est utilisé en environnement de Class I, Division 2, observer les récautions suivantes pour réduire le risque d'explosion. Cet appareil est de type ouvert et il doit être installé dans une enceinte appropriée à l'environnement et ne pouvant être ouverte qu'au moyen d'une cle ou d'un outil.
- d'une clé ou d'un outil.

  Aure clé ou d'un outil.

  Avertissement Danger d'explosion Toute substitution de composant peut compromettre l'apritude à l'ufilisation en Class I, Division 2.

  Avertissement Danger d'explosion Ne pas connecter ou déconnecter l'équipement ni déconnecter les bornes de connexion externes quand le circuit est sous tension, ni avant de d'être assuré de l'absence d'atmosphé inflammable.
- inflammable. L'interface latérale et l'interface d'extension de cet équipement ne neuvent être utilisées dans les environnements de Classe I, Division

- Do not bundle the control and communication
- Do not bundle the control and communication capies with maintenance, ported other wiring.

  Run the above cables separately from such wiring and keep them a minimum of 100mm apart.

  Not doing so onise can cause a malfunction.

  Do not press the GOT display section with a pointed material as a pen 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.
- system.
  Turn on the controllers and the network devices to be ready for communication before they communicate with the GOT.
  Failure to do so can cause a communication error on the GOT.
- When the GOT is subject to shock or vibration, or some colors appear on the screen of the GOT, the screen of the GOT might flicker.

### [MOUNTING PRECAUTIONS]

### **⚠ WARNING**

- WARNING

  Be sure to shut off all phases of the external power supply used by the system before mounting or removing the GOT main unit toffrom the panel. Not doing so can cause the unit to fail or malfunction.

  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/fror the GOT.

### **△ CAUTION**

- Not doing so can cause an electric shock, fire, malfunction or produ
- deterioration. When mounting the GOT to the control panel, tighten the mounting screws in the specified torque range with a Phillips-head screwdriver No. 2. GT2512, GT2508. Specified torque range (0.36 N-m to 0.48 N-m) GT2505: Specified torque range (0.30 N-m to 0.50 N-m) Undertightening can cause the GOT to drop, short circuit or malfunction. Overtightening can cause a drop, short circuit or malfunction due to the damage of the screws or unit.
- of the screws or unit.

  When mounting a unit on the GOT, tighten the mounting screws in the following specified torque range.

  When loading the communication unit or option unit other than wireless LAN unit to the GOT, fit it to the connection interface of the GOT and tighten the mounting screws in the specified torque range (0.36 N·m to 0.48 N·m) with a Phillips-head screwdriver No.2.

  When loading the wireless LAN unit to the GOT, fit it to the side interface of GOT No.2. ng the wireless LAN unit to the GOT, fit it to the side interface of GOT
- when loading the wireless LAN unit to the GO1, in it to the side interface of GO1 and tighten the mounting screws in the specified torque range (0.10 N-m to 0.14 N-m) with a Phillips-head screwdriver No.1. When the GO1 is installed vertically, its side interface is positioned on the bottom. To prevent the failing of the wireless LAN communication unit from the side interface, install or remove the unit while holding it with hands. Under tightening can cause the GO1 to drop, failure or malfunction. Overtightening can cause a drop, failure or malfunction due to the damage of the screws or unit.

#### **△ CAUTION**

- When closing the USB environmental protection cover, fix the cover to the GOT by pushing the [PUSH] or [PULL] mark on the latch firmly to comply with the protective structure.
- Remove the protective film of the GOT.
  When the user continues using the GOT with the protective film, the film may no
- be removed.

  Do not operate or store the GOT in the environment exposed to direct sunlight, high temperature, dust, humidity, or vibrations.

  When using the GOT in the environment of oil or chemicals, use the protective cover for oil.
- cover for oil. Failure to do so may cause failure or malfunction due to the oil or chemical entering into the GOT.

### IWIRING PRECAUTIONS

### **△ WARNING**

Be sure to shut off all phases of the exte before wiring.
Failure to do so may result in an electric shock, product damage or malfunction

### **△ CAUTION**

- A CAUTION

  Make sure to ground the FG terminal and LG terminal of the GOT power supply section solely for the GOT (ground resistance: 100 Ω 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 screws 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. Use applicable solderless terminals and tighten them with the specified torque. If any solderless spade terminal als used, it may be disconnected when the terminal screw comes loose, resulting in failure. Correctly wire the GOT power supply section after confirming the rated voltage and terminal arrangement of the product. Not doing so can cause a fine or failure. Tighten the terminal screws of the GOT power supply section in the specified torque range (0.5 N·m to 0.8 N·m). Undertightening can cause a short circuit or malfunction. Overtightening can cause a short circuit or malfunction due to the damage of the screws or unit.

- Exercise care to avoid foreign matter such as chips and wire offcuts entering the GOT.
- Not doing so can cause a fire, failure or malfunction.
- The module has an ingress prevention label on its top to prevent foreign matter, such as wire offcuts, from entering the module during wiring. Do not peel this label during wiring. Before starting system operation, be sure to peel this label cause of heat
- berore starting system operation, be stifle to peet into labor because on read-dissipation.

  Plug the communication calculation of the connected unit, and tighten the mounting screws and the terminal screws in the specified torque range.

  Undertightening can cause a short circuit or malifunction.

  Overtightening can cause a short circuit or malifunction due to the damage of the screws or unit.
- Plug the QnA/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 or or off a bit device, changing the current value of a word device, changing the ser 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. 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.

### ISTARTUP/MAINTENANCE PRECAUTIONS1

#### **⚠ WARNING**

- When power is on, do not touch the terminals.
  Doing so can cause an electric shock.
  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 in injury and fire.

  Before starting cleaning or terminal screw retightening, always switch off the
- injury and tire. 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.
- Doing so can cause a failure, malfunction, injury or fire.
  Do not bouch 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 unplugging the cable connected to the unit, do not hold and pull from the
- cable portion.

  Doing so can cause the unit or cable to be damaged or can cause a malfunctio due to a cable connection fault.

Hardware reset switch

Do not drop the module or subject it to strong shock. A module damage may result.

Reset switch

### **△ CAUTION**

- 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 battery.
  - 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 static electricity from human body, etc.

    Not doing so can cause the unit to fail or malfunction.

    Use the battery manufactured by Mitsubishi Electric Corporation.

    Use of the batteries may cause a risk of fire or explosion.

    Dispose of used battery promptly. Keep away from children.

    Do not disassemble and do not dispose of in fire.

- Be sure to shut off all phases of the external power supply before replacing the battery or using the dip switch of the terminating resistor. Not doing so can cause the unit to fail or malfunction by static electricity.

### [TOUCH PANEL PRECAUTIONS]

# **△** CAUTION

- 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.

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

  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.

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. Turning off the GOT while it accesses the SD card results in damage to the SD card and files.

  Make sure to turn off the SD card access switch before removing the SD card from the GOT.

  Not doing so may damage the SD card or files. (GT2505 only)

  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.

- hand as it may pop out. Not doing so may cause the SD card to drop from the GOT, resulting in a failure
- 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

# After the successful completion dialog is displayed, remove the data storage of 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 memory (ROM) or SD card.

### 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 of control equipment, 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

n disposing of this product, treat it as industrial waste. n disposing of batteries, separate them from other wastes according to the

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- TRANSPORTATION PRECAUTIONS] **△** CAUTION
- 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 describer
  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. Check if the unit operates correctly after transportation. When furnigants 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 entening our products. Please take necessary precautions to ensure that remaining materials from furnigant do not enter our products, or treat packaging with methods other than furnigation (heat method). Additionally, disinfect and protect wood from insects before packing products.

GOT2000 Series User's Manual (Utility)

The following shows manuals relevant to this product.					
Manual name	Manual number (Model code)				
GOT2000 Series User's Manual (Hardware)	SH-081194ENG (1D7MJ5)				

SH-081195ENG (1D7MJ6) For detailed manuals and relevant manuals, refer to the e-Manual or PDF manuals stored in the DVD-ROM for the screen design software used.

The latest manuals are also available from MITSUBISHI ELECTRIC FA Global Website (www.MitsubishiElectric.com/fa).

Compliance with the new China RoHS directive



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、含有部件如下表所示 部件名称 多溴联苯 多溴二苯酸 (PBB) (PBDE)

本表格依据 SJ/T11364 的规定编制。 〇: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 、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

**<u>Before using the GOT</u>**Connect the connector of the GOT to the connector of the battery.
For GT2505, the battery is connected to the GOT before shipment.
Refer to the GOT2000 Series User's Manual (Hardware) for the connection

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

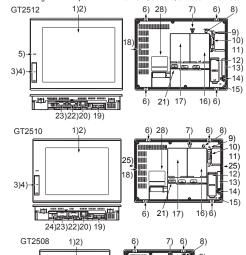
For details on the GOT specifications, installing instructions, wiring, maintenance and inspection, or checking procedure for the version and the compatible standard, refer to the GOT2000 Series User's Manual (Hardware). Packing List
he GOT product package includes the following:

Description	Quantity
GT25	1
Battery (GT11-50BAT) (Attached to the GOT)	1
Installation fitting	4
Gasket (for mounting the GOT on the control panel)	1 (only GT2505-VTBD)
GT25 General Description (This manual)	1
GT25 本体概要説明書	1
GOT2000 Series Supplementary Description (Compliance with the ATEX Directive)	1 (only GT2510-VTWD, GT2508-VTWD)
GOT2000 시리즈 보충 설명(KCs 지침 준수)	1 (only GT2510-VTWD, GT2508-VTWD)

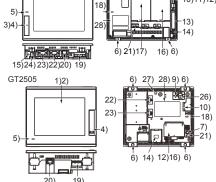
## 1. FEATURES

- 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
- Connection with various perspectation.
   Improved usability
   Abundant troubleshooting
   Easy and clear screen creation
   PC-like operation screen
   Support for the vertical installation
   Service person

# 2. Part Names and Settings



The following shows the part names for GT2512, GT2510, GT2508 and GT2505.



	20) 19)						
No.	Name	Description					
1)	Display screen	Displays the utility and the user-created screen					
2)	Touch panel	For operating the touch switches in the utility and the user- created screen					
3)	USB interface (Host/Front face)	For connecting a USB mouse, a USB keyboard, or a USB barcode reader, and transferring or saving data (Connector shape: TYPE-A) (only GT2512-STBA/D, GT2510-VTBA/D and GT2508-VTBA/D)					
4)	USB interface (Device /Front face)	For connecting a personal computer (Connector shape: Mini-B) (only GT2512-STBA/D, GT2510- VTBA/D, GT2508-VTBA/D and GT2505)					
5)	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					

#### Used for OS installations at the GOT startup Installation switch it: SD card mounted SD card access LED Blinking: SC card accessed No lit: SD card not mounted or SD card mounted (rer 10) SD card inter With a switching function for accepting and stopping the access to the SD card (only GT2512, GT2510 and GT2508 When the cover is opened: Access is prohibited When the cover is closed: Access is prohibited When the cover is closed: Access is allowed SD card cove Houses the battery Side interface For installing a communication unit For connecting a USB mouse, a USB keyboard, or a USB USB interface (Host/Back face) arcode reader, and transferring or saving data connector shape: TYPE-A) Connector shape: TYPE-A) Hole for attaching a cable clamp for preventing USB cable from being pulled out (Recommended product: SKB-132PWD of SK KOHKI CO., LTD. or corresponding product) - For GT2512, GT2510, GT2508 For switching on and off of the terminating resistor for the RS-422485 communication port (Default (Off)) - For GT2505 For switching the terminating resistor. For Si 2505 For switching the terminating resistor for the RS-422/485 communication port to 330 $\Omega$ , 110 $\Omega$ , or OPEN (Default 330 $\Omega$ ) ommunication unit or an option ower input terminal, LG<sup>\*2</sup> terminal, FG termina Power input terminal, LG<sup>22</sup> terminal, FG terminal For communicating with a controller or connecting a persona computer (Connector shape: RJ-45 (modular jack)) SD/RD LED ON: Data sent or received SD/RD LED OFF: Data not sent or received SPEED LED ON: Communicating at 100 Mbps SPEED LED OFF: Communicating at 10 Mbps or disconnected For communicating with a controller (Connector shape: D sut 9-poin (male)) 20) Ethernet interface Ethernet communication status LED 22) RS-232 interface For communicating with a controller (Connector shape: D su 23) RS-422/485 connecting personal computers (Connector shape: Min USB interface (Device/Back face) ) only GT2510-VTWA/D. GT2508-VTWA/D) For fixing the GOT to the control panel to make the GOT conform to the ATEX/KCs standard. Special installation fitting mounting hole\*1 For enabling or disabling the access to the SD card when inserting/removing the SD card to/from the GOT (only eing accessed. (The SD car OFF: SD card is not accessed. (The SD card can be

\*1: Special installation fittings are sold separately. If you need the special installation fittings, consult your local sales office.
\*2: GT2505 does not have the LG terminal.

Hole fixed with banding band or others as a prevention from emoving for the USB cable

### 3. Specifications

Preventive hole from removing for the USB cable

# 3.1 General Specifications

Item	Specifications						
Operating ambient temperature*1 Température ambiante de fonctionnement*1		0 to 55°C' <sup>27</sup> 0 à 55°C <sup>'27</sup>					
Storage ambient temperature			-20 to	60°C			
Operating ambient humidity		10 to	90% RH, n	on-condensir	ıg*8		
Storage ambient humidity		10 to 90% RH, non-condensing*8					
			Frequency	Acceleration	Half- amplitude	Sweep	
	Compliant with JIS B 3502 and IEC 61131-2	JISB intermittent 2 and vibration EC	5 to 8.4 Hz	•	3.5 mm	10 time each in 2	
Vibration resistance			8.4 to 150 Hz	9.8m/s <sup>2</sup>	-	Y and 2 direction	
			5 to 8.4 Hz	-	1.75 mm		
		vibration	8.4 to 150 Hz	4.9m/s <sup>2</sup>	-	_	
Shock resistance	Compliant with JIS B 3502 and IEC 61131-2 147 m/s <sup>2</sup> (15G), 3 times each in X, Y and Z directions					(15G),	
Operating atmosphere*6	No greasy fumes, corrosive gas, flammable gas, excessive conductive dust, and direct sunlight (Same as storage atmosphere						
Operating altitude*3	2000 m (6562 ft) max.						
Installation location		Inside control panel					

### ervoltage tegory\*4 II or less llution degree\* 2 or less rounding with a ground resistance of 100 Ω or less by using a groucable that has a cross-sectional area of 2 mm<sup>2</sup> or more. If impossible, connect the ground cable to the control panel. UL Type 1\*9 UL Type 1 or UL Type 4X (indoor use only)\*10

- \*1: The operating ambient temperature includes the temperature inside the
- 1. The operating aminient temperature incubes 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'intérit du boîtier du tableau de commande sur lequel le GOT est installé.

  2: When any of the following units and option is mounted on the GOT, the maximum operating ambient temperature must be 5°C lower than the one described above.
- maximum operating ambient temperature must be 5 0 tower than the one described above.

   MELSECNET/H communication unit (GT15-J71LP23-25 or GT15-J71BR13)
   CC-Link communication unit (GT15-J61BT13)
   Protective cover for oil
   Lors du montage du module ou de l'option suivant, la température ambiante de fonctionnement doit être réduite de 5°C par rapport aux valeurs maximales
- fonctionnement doit être réduite de 5°C par rapport aux valeurs maximales dans les spécifications générales.

   Module de communication MELSECNET/H (GT15-J71LP23-25, GT15-J71BR13)

   Module de communication CC-Link (GT15-J61BT13)

   Couvercle de protection contre l'huile

  \*3: Do not use or store the GOT under pressure higher than the atmospheric pressure of altitude 0m (Oft.) Failure to observe this instruction may cause a anaffunction When an air rourse is made inside the control panel by adding
- pressure of altitude 0m (0ft.). Failure to observe this instruction may cause a malfunction. When an air purple is made inside the control panel by adding pressure, there may be a clearance between the surface sheet and the screen making it difficult 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. 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. Some models have ANSI/ISA12.12.01 approval for use in Class I, Division 2 (ANSI/ISA12.12.01.22.2 No 213-M1987) hazardapus locations.

  For the details, please contact your local sales office.

  \*7. When GTZ505 is installed vertically, the operating ambient temperature must be between 0°C and 50°C.
- be between 0°C and 50°C.

  Pour le GT2505 orienté à la verticale, la température ambiante de

fonctionnement doit être 0 à 50°C.

8: Only for GT2505-V, the absolute humidity must not exceed 90% at 40°C if the ambient temperature exceeds 40°C. \*10:GT2505 is for use on a flat surface of a Type 1 or Type 4X (indoor use only)

fer to the GOT2000 Series User's Manual (Hardware) for details on the performance pecifications of each GOT.

## 3.2 Power Supply Specifications

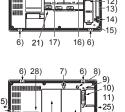
The following indicates the power supply specifications for GT25

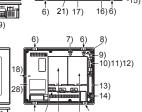
an the permissible period, the GOT will be reset.

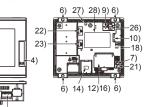
Make sure to power on the unit more than 5 seconds after power-off.

3.2.1 For GOTs powered from the 100 to 240VAC power supply

Item		GT2512-STBA GT2510-VTBA, GT2508-VTV GT2510-VTWA GT2508-VTV				
	ipply voltage	Power supply volt	age AC100 to 240V	'AC (+10%, -15%)		
Power fre	equency		50/60Hz ± 5%			
Мах. арр	parent power	AV08	AV08	70VA		
Power	maximum load	35W or less	34W or less	31W or less		
consum	Stand alone	14W	12W	11W		
ption	Stand alone with backlight off	7W	7W	7W		
Inrush cu	ırrent	60A or less (2ms, operating ambient temperature 25, maximum load)				
Allowable momentary power failure time		20 ms or less (100VAC or more)				
Noise immunity		1,500Vp-p noise voltage, 1 <sub>µ</sub> s 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				
Applicabl	le wire size	0.75[mm <sup>2</sup> ] to 2[mm <sup>2</sup> ]				
Applicable solderless terminal		Solderless terminal for M3 screw RAV1.25-3, V2-S3.3, V2-N3A, FV2-N3A				
Applicable tightening torque (Terminal block terminal screw)		0.5[N•m] to 0.8[N•m]				



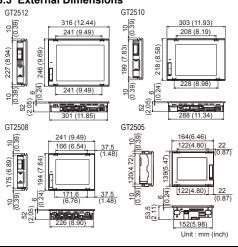




## 3.2.2 For GOTs powered from the 24VDC power

		Specifications				
Item		GT2512- STBD	GT2510- VTBD, GT2510- VTWD	VTBD,	GT2505-VTBD	
Power su	ipply voltage	DC24	V (+25%, -	20%)	DC24 V (+10%, -15%)	
Power	maximum load	37 W or less	33 W or less	31 W or less	8.4 W or less	
consum	Stand alone	13 W	10 W	8 W	4.3 W	
ption	Stand alone with backlight off	6 W	6 W	6 W	2.6 W	
Inrush current		5 A or less (20 ms, operating ambient temperature 25, maximum load)			42 A or less (2 ms, operating ambient temperature 25, maximum load)	
Allowable failure tin	e momentary power ne	10 ms or less				
Noise immunity		500 Vp-p noise voltage, 1µs noise width (when measuring with a noise simulator under 25 to 60 Hz noise frequency) 1000 Vp-p noise width (when measuring with a noise simulator under 30 to 100 Hz noise frequency)				
Dielectric withstand voltage		350 V AC for 1 minute across power terminals and earth			500 V AC for 1 minute across power terminals and earth	
Insulation resistance		10 M or more across power terminals and earth by a 500 V DC insulation resistance tester				
Applicab	le wire size		0.75	mm <sup>2</sup> ] to 2[r	nm <sup>2</sup> ]	
Applicable solderless terminal		Solderless terminal for M3 screw RAV1.25-3, V2-S3.3, V2-N3A, FV2-N3A				
Applicable tightening torque (Terminal block terminal screw)		0.5[N•m] to 0.8[N•m]				

#### 3.3 External Dimensions



### 4. EMC AND LOW VOLTAGE DIRECTIVE

For the products sold in European countries, the conformance to the EMC Directive, which is one of the European Directives, has been a legal obligation since 1996. Also, conformance to the Low Voltage. Directive, another European Directives, has been a legal obligation since

1997.
Manufacturers who recognize their products must conform to the EMC and Low Voltage Directive are required to declare that their products conform to these Directives and put a "CE mark" on their products.

• Authorized representative in Europe

Authorized representative in Europe is shown below

Name :Mitsubishi Electric Europe BV Address :Mitsubishi-Electric-Platz 1, 40882 Ratingen, Germany

4.1 Requirements to Meet EMC Directive

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 the external.: Immunity (electromagnetic sensitivity)". Items4.1.1 through4.1.3 summarize the precautions to use GOT and configure the mechanical unit in order to match the EMC directives. Though the data described herein are produced with our best on the basis of the requirement items and standards of the restrictions gathered by Mitsubishi Electric, they do not completely guaranteed that all mechanical unit manufactured according to the data do not always match the above. match the above

#### 4.1.1 EMC directive

Applied standard	Test standard	Test details	Standard value
	CISPR16-2-3 Radiated noise*1	Electromagnetic emissions from the product are measured.	30 M-230 MHz QP: 30 dBμV/m (30 m in measurement range) '2, *3 230 M-1000 MHz QP: 37 dBμV/m(30 m in measurement range) *2, *3
EN61131-2 : 2007	CISPR16-2-1 Conducted noise*1	Electromagnetic emissions from the product to the power line is measured.	150 k-500 kHz QP: 79 dB, Mean: 66 dB <sup>*2</sup> 500 k-30 MHz QP: 73 dB, Mean: 60 dB <sup>*2</sup>
. 2007	IEC61000-4-2 Electrostatic immunity*1	Immunity test in which static electricity is applied to the cabinet of the equipment.	± 4 kV Contact discharge ± 8 kV Aerial discharge
	IEC61000-4-3 Radiated electromagnetic field AM modulation	Immunity test in which field is irradiated to the product.	80-1000 MHz: 10V/m 1.4-2 GHz: 3V/m 2.0-2.7 GHz: 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: 2 kV Digital I/O: 1 kV Analog I/O: 1 kV Signal lines: 1 kV
EN61131-2	IEC61000-4-5 Surge immunity <sup>*1</sup>	Immunity test in which lightening surge is applied to the product.	AC power type Power line (between line and ground): ±2 kV Power line (between lines) = ±1 kV Data communication port = ±1 kV DC power type Power line (between line and ground): ±0.5 kV Power line (between lines) = ±0.5 kV Data communication port = ±1 kV
: 2007	IEC61000-4-6 Conducted RF immunity*1	Immunity test in which a noise inducted on the power and signal lines is applied.	Power line: 10 V Data communication port: 10 V
	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 (50/60 Hz).	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%

: 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. 
COP (Quasi-Peak): Quasi-peak value, Mean: Average value 
The above test items are conducted in the following conditions. 
30 M-230 MHz QP: 40 dB<sub>W</sub>V/m (10 m in measurement range) 
230 M-1000 MHz QP: 47 dB<sub>W</sub>V/m (10 m in measurement range)

### 4.1.2 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 noise generated from GOT, on the control panel.

(1) Control Panel

(a) The control panel must be conductive

 (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 (3.94 in.). 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 suppress

Our test has been carried out on a panel having the damping characteristics of 37 dB max. and 30 dB mean (measured by 3 m method with 30 to 300 MHz)

(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 30 cm (11.81 in.) 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 the power supply with the earthing wire, noise flowing from the power by twisting with the earthing wire, noise flowing from the power if a filter

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.

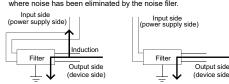
### 4.1.3 Noise filter (power supply line filter)

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 10 MHz or less.) Usage of the following filters is recommended

Model name	FN343-3/05	FN660-6/06	RSHN-2003
lanufacturer	SCHAFFNER	SCHAFFNER	TDK
ated current	3 A	6 A	3 A
tated voltage		250 V	

The precautions required when installing a noise filter are described

(1) 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.

 Separate the input cable from the output cable. (2) Connect the noise filter's ground terminal to the control panel with the

shortest cable as possible (approx. 10 cm (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 50 V AC to 1000 V and 75 V DC to 1500 V to satisfy necessary safety items. In the Sections from 4.2.1 to 4.2.5 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 m 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

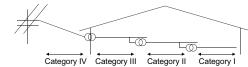
EN60950-1 Safety of Information Technology Equipment

**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

durability



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 distribution.

### 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 panel equivalent a control room or on the floor of a typical factory.

An environment where conductive dust exits and Pollution level 3: conductivity may be generated due to the accumulated

An environment for a typical factory floor.

Continuous conductivity may occur due to rain, snow, etc. An outdoor environment.

### 4.2.4 Grounding

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.

Functional grounding 4: Improves the noise resistance

### 4.2.5 External wiring

When a device with a hazardous voltage circuit is externally connected to the GOT, select a model which complies with the Low Voltage Directive's requirements for isolation between the primary and secondary circuits

#### (2) Insulation requirements

Dielectric withstand voltages are shown in the following table Reinforced Insulation Withstand Voltage (Installation Category II, source : IEC664)

voltage area	Surge withstand voltage (1.2/50μs)				
150 VAC or below	2500 V				
300 VAC or below	4000 V				

### 5. INSTALLATION

Rated voltage of hazardous

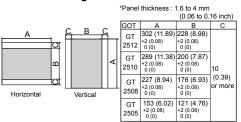
#### Control Panel Inside Dimensions for Mounting GOT

Install the GOT on the control panel out of the way for the equipment inside the control panel. Do not install the GOT and the unit in prohibited areas for the installation.

Applicable cable

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

### 5.2 Panel Cutting Dimensions



## 5.3 Mounting Position

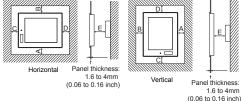
For GT2512 GT2510 GT2508

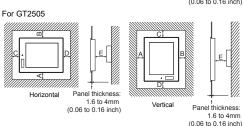
When mounting the GOT, the following clearances must be maintained from other structures and devices. Some cables may need to be longer than the specified dimensions when connecting to the GOT.

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.





According to the dimensions in the following table, leave clearances between the GOT and the other devices. The values enclosed in squa brackets apply to the case where no other equipment generating radiated noise (such as a contactor) or heat is installed near the GOT. However, keep the ambient temperature of the GOT to 55°C or lower.

	•			l	Jnit: mm(inch)
	Item	GT2512	GT2510	GT2508	GT2505
	GOT only	48(1.89) or more [18(0.71) or more] 48(1.89) or more [29(1.14) or more]			50(1.97) or more [20(0.79) or more]
	Ethernet communication unit is fitted		(1.89) or mo (0.71) or mo		-
	Bus connection unit is fitted	48(1.89) or more [18(0.71) or more] 23(0.91) or more [29(1.14) or more]		-	
	Serial connection unit is fit- ted	48(1.89) or more [18(0.71) or more]			-
А	CC-Link communication unit (GT15-J61BT13) fitted	48(1.89) or more [18(0.71) or more]			-
А	MELSECNET/H communi- cation unit (coaxial) fitted <sup>*1</sup>	48(1.89) or more [38(1.50) or more]	48(1.89) or more [45(1.77) or more]	67(2.64) or more	-
	MELSECNET/H communication unit(optical) fitted*2	48(1.89) or more [18(0.71) or more]			-
	CC-Link IE TSN communication unit is fitted	48(1.89) or more [18(0.71) or more]			
	CC-Link IE Controller Network communication unit fitted	[18	(1.89) or mo (0.71) or mo	ore]	-
	CC-Link IE Field Network communication unit fitted		(1.89) or mo (0.71) or mo		-

### Printer unit fitted External I/O unit fitted 80(3.15) or more [20(0.79) Horizontal: 78(3.07) or more [18(0.71) or more] Vertical: 48(1.89) or more [18(0.71) or more] 50(1.97) or more [20(0.79) or more] 50(1.97 or more When the SD card is used 50(1.97) or mo When the SD card is not used [20(0.79) or more 50(1.97) or more [20(0.79) or more Vertical: 80(3.15) or more [20(0.79) or more] 100(3.94)

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

1: This value is for use of the cable, refer to the GOT2000 Series C for a controller used.

1: This value differs depending on the cable used.

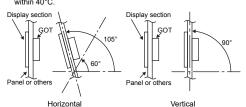
1: When opening or closing the battery cover: 72(2.83) or more

## 5.4 Control Panel Inside Temperature and

Installation Angle

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.

within 40°C.
Installing 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. INSTALLATION

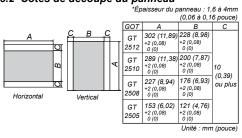
#### Dimensions intérieures du tableau de commande pour le montage du GOT

\*1: For GT2505, the control panel inside temperature must be within 50°C

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

Point Câble applic Partains câbles peuvent être 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 découpe du panneau



### 5.3 Position de montage

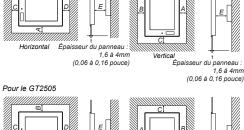
Lors du montage du GOT, laissez les espaces suivants pour les autres structures et dispositifs Certains câbles peuvent être plus longs que les dimensions spécifiées lors de la connexion au GOT.

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 imprimée sur la face arrière du GOT pointe
vers le haut

Pour le GT2512, GT2510, GT2508



(0,06 à 0,16 pouce) (0,06 à 0,16 pouce)

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

près du GOT. Toutefois, maintenez la température ambiante du GOT à 55°C ou moins. Linité mm (pouce)

	Article	G12512	G12510	G12506	G12505
	GOT uniquement		) ou plus ) ou plus]	48 (1,89) ou plus [29 (1,14) ou plus]	50 (1,97) ou plus [20 (0,79) ou plus]
	Unité de communication Ethernet encastrée		48 (1,89) ou plus [18 (0,71) ou plus]		
	Unité de connexion de bus encastrée	[18 (0,71	) ou plus ) ou plus]	23 (0,91) ou plus [29 (1,14) ou plus]	-
	Unité de connexion série encastrée		(1,89) ou p (0,71) ou p		-
	Module de communication CC-Link (GT15-J61BT13) encastré	[18	(1,89) ou p (0,71) ou p		-
А	Module de communication MELSECNET/H (coaxial) encastré <sup>*1</sup>	48 (1,89) ou plus [38(1,50) ou plus]	48 (1,89) ou plus [45 (1,77) ou plus]	67 (2,64) ou plus	-
	Module de communication MELSECNET/H (optique) encastré* <sup>2</sup>	48 (1,89) ou plus [18 (0,71) ou plus]		-	
	Module de communication CCLink IE TSN encastré		48 (1,89) ou plus [18 (0,71) ou plus]		-
	Module de communication réseau de contrôleur CC- Link IE encastré		(1,89) ou p (0,71) ou p		-
	Module de communication réseau de champ CC-Link IE encastré	[18	(1,89) ou p (0,71) ou p	lus]	-
	Imprimante encastrée	48 (1,89) ou plus [18 (0,71) ou plus]		-	
	Module d'E/S externe encastré	[18	(1,89) ou p (0,71) ou p	lus]	-
	Module de sortie acous- tique encastré	48 (1,89) ou plus [18 (0,71) ou plus]		-	
В		[18 Vertica	al: 78 (3,07 (0,71) ou p l: 48 (1,89) (0,71) ou p	lus] ou plus	Horizontal: 80 (3,15) ou plus [20 (0,79) ou plus] Vertical: 50 (1,97) ou plus [20 (0,79) ou plus]

#### [20 (0,79) ou plus] (1,97) ou plu [20 (0,79) ou plus] Vertical: 80 uand la carte SD n'est 50 (1.97) ou plus (3,15) ou plus [20 (0,79) ou plus] Horizontal: 50 (1.97) ou plus 50 (1,97) ou [20 (0,79) ou plus] [20 (0,79) ou plus] Vertical: 80 (3,15) ou plus [20 (0,79) ou plus] 100 (3,94) ou p plus [20 (0,79) ou plus] F\*3

11. Cette valeur est utilisée pour le câble coaxial 3C-2V (IS C 3501).
Pour connaître les spécifications du câble, référez-vous au manuel
Series Connection Manual for a controller used.
22. Cette valeur diffère selon le câble utilisé.
33. Pour ouvrir ou fermer le couvercle de la batterie : 72 (2,83) ou plus manuel GOT2000

### 5.4 Température intérieure et angle d'installation du tableau de commande

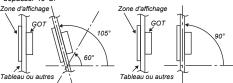
Lors de l'installation du GOT sur un panneau, réglez la zone d'affichage comme indiqué ci-dessous.
Si l'angle d'installation est différent de celui indiqué, le GOT se détériore plus tôt. Installation du GOT à l'horizontale

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

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 <sup>7</sup>. Lors de l'installation du GOT avec tout autre angle que 90°, la température à l'intérieur du panneau de commande ne doit pas dépasser 40°C



Vertical

## 6. MAINTENANCE AND INSPECTION

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

### Warranty

Mitsubishi Electric will not be held liable for damage caused by Missubishi Levelit will not be field lable for danlage caused by factors found not to be the cause of Missubishi Electric; machine damage or lost profits caused by faults in the Mitsubishi Electric products; damage, secondary damage, accident compensation caused by special factors unpredictable by Mitsubishi Electric; damages to products other than Mitsubishi Electric products; and to other duties.

## $\Lambda$ For safe use

This product has been manufactured as a general-purpose part for general industries, and has not been designed or manufactured to e incorporated in a device or system used in purposes related to

 Before using the product for special purposes such as nuclear power, electric power, aerospace, medicine or passenger movement vehicles, consult with Mitsubishi Electric. This product has been manufactured under strict quality control

However, when installing the product where major accidents or losses could occur if the product fails, install appropriate backup or failsafe functions in the system.

### MITSUBISHI ELECTRIC CORPORATION

D OFFICE : TOKYO BUILDING, 2-7-3 MARUNOUCHI, CHIYODA-KU, TOKYO 100-8 GOYA WORKS : 1-14, YADA-MINAMI 5-CHOME, HIGASHI-KU, NAGO\ When exported from Japan, this manual does not require application to the Ministry of Economy, Trade and Industry for service transaction permission.

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