

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

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

Indicates that incorrect handling may cause Azardous conditions, resulting in medium or slight personal injury or physical damage.

Note that the  $\underline{\wedge}$  CAUTION level may lead to a serious accident according to the circumstances. Always follow the instructions of both levels because they are important to ensure the feature.

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

always forward it to the end user.

### [DESIGN PRECAUTIONS]

### A WARNING

Some failures of the GOT, communication unit or cable may keep the outputs Some tailures of the GO1, communication unit or cable may keep the output 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 with doing so can cable an accident to the false output or malfunction. No not use the GOT as the warning device that may cause a serious control 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. The GOT backlight failure disables the operation on the touch switch(s). 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. The display section of the GOT is an analog-resistive type touch panel. The GOT is multi-touch compliant; however, do not touch three points or more simultaneously on the display section. Doing so may cause an accident due to incorrect output or malfunction.
- to incorrect output or 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 and the GOT becomes inoperative. For bus connection : The PLC CPU becomes faulty and the GOT becomes inoperative.
- inoperative. For other than bus 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.

[PRECAUTIONS FOR EXCLUSIVE AUTHORIZATION CONTROL]

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

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.

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 GOT2000 Series User's Manual (Hardware) for details of the battery directive in the EU member states.)

When temportugalitations. (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 an *meristion devices*.

resistance described in the general systematic 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 protect wood from insects before packing products.

Manuals

product

Manual number (M

SH-081194ENG (1D7MJ5)

SH\_081195ENG (1D7MJ6)

ting lithium batteries, make sure to treat them based on the

[DISPOSAL PRECAUTIONS]

[TRANSPORTATION PRECAUTIONS]

### 

WARNING
 To maintain the security (confidentiality, integrity, and availability) of the GOT
 and the system against unauthorized access, DoS<sup>3</sup> tatacks, computer
 viruses, and other cyberattacks from unreliable networks and devices via
 network, lake appropriate measures such as firewalls, virtual private
 networks (VPNs), and antivirus solutions.
 Mitsubish leaterix shall have no responsibility or liability for any problems
 involving GOT trouble and system trouble by unauthorized access, DoS
 statacks, computer viruses, and other cyberattacks.
 "1 DOS: A denial-of-service (DOS) attack disrupts services by overloading
 systems or exploiting vulnerabilities, resulting in a denial-of-service (DOS)
 statacks.

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. 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. • Warning - Explosion Hazard - Substitution of any component may impair suitability or Class I, Division 2. • Warning - Explosion Hazard - Do not connect or disconnect equipment or

- Warning Explosion Hazara Do not connect or disconnect equipment of disconnect external connection terminals unless power has been removed o the area is known to be non-hazardous.
   The side interface, extension interface, and auxiliary extension interface

- The afea is known to be non-azarouis.
  The side interface, extension interface, and auxiliary extension interface of this equipment cannot be used in Class I, Division 2 environments. Les produits marqués CII, DIV 2 sur la plaque signalétique peuvent être utilisés en Class I, Division 2, local dangereux de groupe A, B, C et D, ou uniquement en local non dangereux.
  Ce logo indique que le produit est homologué pour utilisation en environmement de Class I, Division 2, docat dangereux de groupe A, B, C et D, ou uniquement de Class I, Division 2 où, dans des circonstances anormales, il peut y avair présence de gaz, vapeurs o durdis inflammables.
  Sprécutions suitantes pour réduire le risde un étable dans une enceinte appropriée à l'environmement et l'idoit être installé dans une enceinte appropriée à l'environmement et a pluties d'auxie d'auxie d'auxient de d'une clé ou d'un outil.
  Avertissemet Danger d'explosion Toute substitution de composant peut compromettre l'applicate à borne d'avplosion 2.
  Avertissemet Danger d'explosion Rus pass de consexion externes quand le circuit est sous tension, ni avant de d'are assuré de labsence d'atmosphere inflammable.
  Avertissemet Danger d'explosion Toute substitution de composant peut compromettre l'applitude à l'utilisation en Class I, Division 2.
  Avertissemet Danger d'explosion Ne pas connexion externes quand le circuit est sous tension, ni avant de d'atre assuré de l'absence d'atmosphere inflammable.
- inflammable. L'interface latérale, l'interface d'extension et l'interface d'extensior secondaire de cet équipement ne peuvent être utilisées dans les environnements de Classe I, Division 2.

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- Do not bundle the control and communication cables with main-circuit, power
- or other wiring. Run the above cables separately from such wiring and keep them a of 100mm apart.
- 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. 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
- 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 svetem.
- 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.
- **IMOUNTING PRECAUTIONS1**

# 

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.

### 

2. Part Names and Settings

1)2)

21

24) | 22) 23)

1)2)

6) 24) 21) 25) 22)

26) | 24) | 21) 25) 22)

16) | 24) | 21) 25) 22)

GT2710 1)2)

GT2708 1)2)

GT2715

3) **1** 

GT2712

5)-

- Use the GOT in the environment that satisfies the general specifications described in this manual. Not doing so can cause an electric shock, fire, malfunction or product damage or deterioration.
- When mounting the GOT to the control panel, 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.
- dertightening can cause the GOT to drop, short circuit or malfunction artightening can cause a drop, short circuit or malfunction due to the nage of the screws or the unit. Undertighter Overtighter damage of

The following shows the part names for GT2715, GT2712, GT2710, GT2708 and GT2705.

8 8 . . .

23)



- 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, tift 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, tift it to the side interface of GOT 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 GOT is installed vertically, its side interface is positioned on the hottom.
- When the GOT is instanted vertically, its side interface is positioned on the bottom. To prevent the falling 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 GOT to drop, failure or malfunction. Overtightening can cause a drop, failure or malfunction due to the damage or the screws or unit.
- the screws or unit. When closing the USB environmental protection cover, fix the cover to the GOT by pushing the [PUSH] 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 not be removed.
- not be removed. In addition, for the models equipped with the human sensor function, using the GOT with the protective film may cause the human sensor not to function
- property. 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. Failure to do so may cause failure or malfunction due to the oil or chemical entering into the GOT.

# [WIRING PRECAUTIONS]

A WARNING al power supply used by the Be sure to shut off all phases of the ex system before wiring. Failure to do so may result in an electric shock, product damage or malfunctions.

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- 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.
- Not doing so may cause an electric shock or manufructor. 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 Nm to 0.8 Nm. 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 is 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 fire or failure. Taktore the transition genue of the COT power supply section in the post-

- Not orging so can cause a tire of failure. Tighten the terminal screws of the GOT power supply section in the specified torque range (0.5 Nm to 0.8 Nm). Undertightening can cause a short circuit or malfunction. Overtightening can cause a short circuit or malfunction due to the damage of the screws or the 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.
- Not doing so can cause a life, lature or maintroom. 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 because of heat dissipation. Plug the communication cable into the GOT interface or the connector of the connected wirit and tighter the mounting across and the targming across and
- connected unit, and tighten the mounting screws and the terminal screws in the specified torque range. Undertightening can cause a short circuit or malfunction.
- 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. 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 pluggling, check that it has been inserted snugly. Not doing so can cause a malfunction due to a contact fault.
- [TEST OPERATION PRECAUTIONS]

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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 maifunction can cause an accident.

# [STARTUP/MAINTENANCE PRECAUTIONS]

A WARNING

barcode reader, shape: TYPE-A)

nts upward

9-pin (female))

or installing an option unit

 Special installation (Davice/Back face)
 Special installation (Child State)
 For connecting personal computers (Connector shape: Mini-B) (Child State)

 27)
 Special installation (Ting mounting hole<sup>2</sup>)
 For fixing the GOT to the control panel to make the GOT GT2710-VTWA/D)

- en power is on, do not touch the terminals

12) SD card cover

Battery holde
 Side interfac

15) USB interface (Host/Back face)

16) Hole for attaching a cable clamp

17) Terminating re setting switch (Inside cover) 18) Auxiliary exten interface

9) Extension interface

arrow mark Power terminal

LED

2) Ethernet interface

4) RS-232 interface

25) RS-422/485 interface

3. Specifications

Item

3.1 General Specifications

/ertical installation

Ethernet communication status

- 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 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.

Description With a switching function for accepting and stopping the acces

shape: TYPE-A) Hole for attaching a cable clamp for preventing USB cable frc being pulled out (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 unit For the vertical installation, install the GOT so that the arrow

Ir-wer input terminal, LG terminal, FG terminal For communicating with a controller or connecting a personal computer (Connector shape: RJ45 (modular jack)) SD/RD LED ON: Data not sent or received SD/RD LED OFF: Data not sent or received SPEED LED OFF: Communicating at 10 Mbps or disconnected For communicating with a controller (Connector shape: D sub 9-cin (male)

For communicating with a controller (Connector shape: D sul For communicating with a controller (Connector shape: D sul

Specifications

ower input terminal, LG terminal, FG termina

en the cover is opened : Access is prohibited en the cover is closed : Access is allowed

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- Do not disassemble or modify the unit. Doing so can cause a failure, malfunction, injury or fire.
- uong so can cause a tailure, maltunction, injury or fire. 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.
- 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 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 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.

- Doing so may damage 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 static electricity from human body, etc. Not doing so can cause the unit to fall or malfunction. Use of other 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 acuse the unit to fall or malfunction by static electricity.

# [TOUCH PANEL PRECAUTIONS]

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- For the analog-resistive film type touch panels, normally the adjustment is n The quired, incorrection of the observe in the observe parties, normally the adjustment to incorrect the observe 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, 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]

cause failure. Check that the SD card access LED is off before removing the SD card.

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. 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 or 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 but band excessful.

by hand carefully. Not doing so may cause the data storage to drop from the GOT, resulting in a failure or break.

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

A 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.

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

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 (0f1).
 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 to use the touch panel, or the sheet may come 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.
 This 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.
 Some models have ANSI/ISA12.12.01 approval for use in Class I, Division 2 (ANSI/ISA 12.12.01, C22.2N o.213-4/M1987) hazardous locations.
 For the details, please contact your local sales office.
 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

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

GT2715-XTBA

140VA

51W or less

25W

40A or less (3ms, operating ambient temperature 25, maximum load)

GT2712-STBA GT2712-STBA GT2712-STWA VTWA GT2710-GT2710-GT2710-GT2708-STBA GT2708-STBA GT2708-STBA GT2708-STBA GT2708-STBA GT2708-STBA

100V

60A or less (2ms, operating ambient temperature 25 maximum lead)

s 41W or less 17W 1

15W

C100 to 240VAC (+10%, -15%

50/60Hz ± 5

10W

14W or less

19W

3.2 Power Supply Specifications

[PRECAUTIONS FOR REMOTE CONTROL]

[PRECAUTIONS FOR USE]

Point

Note

pecifications of each GOT.

ving indicat

Operation at momentary failure

Item

maximum load

Stand alone

ower supply voltage

wer frequency

Power consum otion

rush current

lax. apparent powe

power supply

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.

anuals stored in the DVD-ROM for the screen design software used

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

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

GOT2000 Series User's Manual (Hardware

GOT2000 Series User's Manual (Utility)

### Before using the GOT

The following shows manuals re

Connect the connector of the GOT to the connector of the battery. Refer to the GOT2000 Series User's Manual (Hardware) for the connection instructions.

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

The GOT product package includes the following:

Description	Quantity
GT27	1
Battery (GT11-50BAT) (Attached to the GOT)	1
Installation fitting	4, 8(Only GT2715)
GT27 General Description (This manual)	1
GT27 本体概要説明書	1
GOT2000 Series Supplementary Description (Compliance with the ATEX Directive)	1(Only GT2712-STWD, GT2710-VTWD)
GOT2000 시리즈 보충 설명 (KCs 지침 준수 )	1(Only GT2712-STWD, GT2710-VTWD)

## **1. FEATURES**

- (1) 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

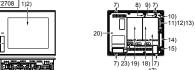
   Connection with various peripheral devices with the USB host

   (2) Improved usability

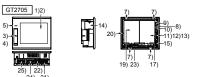
   Abundant troubleshooting

   Exercise and clear screen creation

- Abundant troubleshooting
   Easy and clear screen creation
   PC-like operation screen
   Multi-touch function, Gesture function
   Support for the vertical installation
  Enhanced compatibility with Mitsubishi Electric FA devices
  Easy replacement
  LED backlight
  External controllers including multimedia and video supported (excluding
  GT2705)
  Various extended functions exponented
- Various extended functions supported (7)



7) 23) 19) 18)



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 parcode reader, and transferring or saving data (Connector shape: TYPE-A) Only GT2715-XTBA/D, GT2710-STBA/D, GT2710-STBA/D, ST2710-VTBA/D, GT2708-STBA/D, GT2708-VTBA/D, ST2705-VTBD)				
4)	USB interface (Device /Front face)	For connecting a personal computer (Connector shape: Mini-B) (Only GT2715-XTBA/D, GT2712-STBA/D, GT2710-STBA/D, GT2710-VTBA/D, GT2708-STBA/D, GT2708-VTBA/D, GT2705-VTBD)				
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				
6)	Human sensor	Detects human movement.(Only GT2715, GT2712)				
7)	Unit installation fitting	Mounting fixtures for fixing the GOT to the control panel				
8)	Reset switch	Hardware reset switch				
9)	Installation switch	Used for OS installations at the GOT startup				
10)	SD card access LED	Lit : SD card mounted Blinking : SD card accessed No lit : SD card not mounted or SD card mounted (removable)				
11)	SD card interface	For installing a SD card				

Operating ambient temperature <sup>*1</sup> <i>Température</i> <i>ambiante de</i> <i>fonctionnement</i> <sup>*1</sup>	0 to 55°C *2 0 å 55°C *2					
Storage ambient temperature			-20 to	60°C		
Operating ambient humidity		10 te	o 90% RH, i	non-condensi	ng	
Storage ambient humidity		10 te	90% RH, I	non-condensi	•	
			Frequency	Acceleration	Half- amplitude	Sweep count
	Compliant with JIS B	Under	5 to 8.4Hz	-	3.5mm	10 times each in X,
Vibration resistance	3502 and IFC	vibration	8.4 to 150Hz	9.8m/s <sup>2</sup>	-	Y and Z directions
	61131-2 Under continuous		5 to 8.4Hz	-	1.75mm	_
		vibration	8.4 to 150Hz	4.9m/s <sup>2</sup>	-	-
Shock resistance	Compl	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		No greasy fumes, corrosive gas, flammable gas <sup>6</sup> , excessive conductive dust, and direct sunlight (Same as storage atmosphere)				
Operating altitude*3			2000 m (65	62 ft) max.		
Installation location			Inside cor	ntrol panel		
Overvoltage category*4			ll or	less		
Pollution degree*5			2 or	less		
Cooling method			Self-c			
Grounding	Grounding with a ground resistance of $100 \Omega$ or less by using a ground cable that has a cross-sectional area of $2 \text{ mm}^2$ or more. If impossible, connect the ground cable to the control panel.					
Type rating		UL Type 1 *7				
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 fonctionnemant inclut la température à l'intérieur du bottier 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.
- Multimedia unit (GT27-MMR-Z)

MELSECNET/H communication unit (GT15-J71LP23-25 or GT15-J71BR13) CC-Link communication unit (GT15-J61BT13) Pertective course for : " MELSECNET/H cor

ective cover for oil

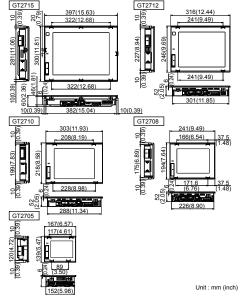
Lors du montage du module ou de l'option suivant, la température ambiante de fonctionnement doit être réduite de 5°C par rapport aux valeurs maximales dans les spécifications générales. - Module multimédia (GT27-MMR-Z)

Allowable momentary power failure time	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
Applicable 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 supply

ltem				Specifications	3	
		GT2715- XTBD	GT2712- STBD, GT2712- STWD	GT2710- STBD, GT2710- VTBD, GT2710- VTWD	GT2708- STBD, GT2708- VTBD	GT2705- VTBD
Power s	supply voltage		DC2	4V (+25%, -2	20%)	
Power	maximum load	48W or less	45W or less	42W or less	39W or less	30W or less
consu	Stand alone	23W	18W	15W	13W	7W
mption	Stand alone with backlight off	8W	8W	8W	8W	5W
Inrush current		5A or less (20ms, operating ambient temperature 25, maximum load)				
	le momentary ailure time	10 ms or less				
	nmunity	500Vp-p noise voltage, $1\mu s$ noise width (when measuring with a noise simulator under 25 to 60Hz noise frequency)				
Dielectr voltage	ic withstand	350VAC for 1 minute across power terminals and earth				
Insulatio	on resistance	10M or more across power terminals and earth by a 500V DC insulation resistance tester				
Applical	ble wire size	0.75[mm <sup>2</sup> ] to 2[mm <sup>2</sup> ]				
Applical termina	ble solderless I	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 electromagnetic compatibility (EMC) and electrical safety, regulatory standards are established in each country.

For electromagnetic compatibility (EMC) and electrical safety, regulatory 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 Directive, has been mandatory as the electrical safety standards since 1997. In European countries, if a product meets the requirements of the EMC Directive, the product's manufacturer must declare conformity of the product and affix the CE mark to the product. A new Yoltage Directive, the product and affix a designated mark to the product (scample: UKCA mark in the UK). A further expresentative 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 and electrical safety standards. EMC and electrical safety standards. EMC and electrical safety standards. EMC and electrical safety standards were requirements are consistent with the same standards. When the requirements are consistent with the same standards. When the trequirements are consistent with the same standards. When the trequirements are consistent with the same standards. The Common measures are taken to conform to the standards in different countries. For the EMC Directive, regulatory compliance with equivalent EMC Directive, regulatory compliance with equivalent EMC and reguirements the Comson of the same standards. The Common measures are taken to conform to the standards in different countries. For the EMC Directive, regulatory compliance with equivalent 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

### 4.1.1 EMC directive

Applied standard	Test standard	Test details	Standard value
	CISPR16-2-3 Radiated noise <sup>*1</sup>	Electromagnetic emissions from the product are measured.	30M-230MHz QP: 30dB <sub>µ</sub> V/m (30m in measurement range) <sup>12, *3</sup> 230M-1000MHz QP: 37dB <sub>µ</sub> V/m (30m in measurement range) <sup>12, *3</sup>
	CISPR16-2-1 Conducted noise <sup>*1</sup>	Electromagnetic emissions from the product to the power line is measured.	150k-500kHz QP: 79dB, Mean: 66dB <sup>*2</sup> 500k-30MHz QP: 73dB, Mean: 60dB <sup>*2</sup>
	IEC61000-4-2 Electrostatic immunity <sup>*1</sup>	Immunity test in which static electricity is applied to the cabinet of the equipment.	$\pm$ 4kV Contact discharge $\pm$ 8kV Aerial discharge
	IEC61000-4-3 Radiated electromagnetic field AM modulation	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
EN61131-2 : 2007	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 <sup>11</sup>	Immunity test in which lightening surge is applied to the product.	AC power type Power line (between line and ground): $\pm 2kV$ Power line (between lines) $\pm \pm 1kV$ Data communication port $\pm 1kV$ DC power type Power line (between line and ground): $\pm 0.5kV$ Power line (between lines) $\pm 0.5kV$ Data communication port $\pm 1kV$
	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
	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%

\*1: The 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.

CP (Quasi-Peak): Quasi-peak value, Mean: Average value
 The above test items are conducted in the following conditions. 30M-230MHz QP : 40dBµ//m (10m in measurement range) 230M-1000MHz QP : 47dBµ/V/m (10m 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.
  (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 contact.
- 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 both area of the inner plate
- and control panel to ensure conductivity in the largest area as possible.
- (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 wiring means that the wire is prevented from acting as an antenna

Note) A long conductor will become a more efficient antenna at (b) The earth wire led from the earthing point must be twisted with

the power supply wires.

By twisting with the earthing wire, noise flowing from the power supply writes 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 10MHz or less.) Usage of the following filters is recommended.

Model name	FN343-3/05	FN660-6/06	RSHN-2003
Manufacturer	SCHAFFNER	SCHAFFNER	TDK
Rated current	3A	6A	3A
Rated voltage		250V	

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.



Output side  $\Box \downarrow$ arate 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. 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 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 make the final judgement about the application method of the Low Voltage Directive and the product compatibility.

### 4.2.1 Standard subject to GOT

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

### 4.2.2 Power supply

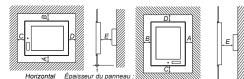
Installing the input and output cables together will cause noise induction.

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

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, référez-vous 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 heut. vers le haut.

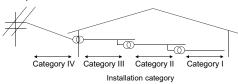


ntal Ép 1.6à4m m(0,06 à 0,16 pouce Épaisseur du p nouce) Vertical r du panneau : 1,6 à 4mm(0,06 à 0,16 pouce)

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 moirs.

00 0	C ou moins.			l	Jnité: mn	n (pouce)	
	Article	GT2715	GT2712	GT2710	GT2708	GT2705	
	GOT uniquement	48 (1,89) o	u plus[18 (0,	71) ou plus]	48 (1,89) ou plus [29 (1,14) ou plus]	59(2.32) ou plus	
	Unité de communication Ethernet encastrée		48 (1,89) ou plus[18 (0,71) ou plus]				
	Unité de connexion de bus encastrée	48 (1,89) o	48 (1,89) ou plus[18 (0,71) ou plus] [29 (1,14) ou plus]				
1	Unité de connexion série encastrée	48 (1	48 (1,89) ou plus[18 (0,71) ou plus]				
	Module de communication CC- Link (GT15-J61BT13) encastré	48 (1.89) ou plus[18 (0,71) ou plus]				50(1.97) ou plus [22(0.87) ou plus]	
	Module de communication MELSECNET/H (coaxial) encastré <sup>*1</sup>	48(1,89) ou plus [18(0,71) ou plus]	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	81(3.19) ou plus	
	Module de communication MELSECNET/H (optique) encastré <sup>*2</sup>	48 (1	77(3.03) ou plus				
	Module de communication CC- Link IE TSN encastré	48 (1	48 (1,89) ou plus				
Α	Module de communication réseau de contrôleur CC-Link IE encastré	48 (1,89) ou plus[18 (0,71) ou plus]				55(2.17) ou plus	
	Module de communication réseau de champ CC-Link IE encastré	48 (1,89) ou plus[18 (0,71) ou plus]				55(2.17) ou plus	
	Module d'entrée vidéo encas- tré <sup>*1</sup>	48(1,89) ou plus [18(0,71) ou plus]	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 d'entrée RGB encas- tré <sup>*3</sup>	48 (1	1,89) ou plus	[18 (0,71) ou	plus]	-	
	Module d'entrée vidéo/RGB encastré <sup>*1*3</sup>	48(1,89) ou plus [18(0,71) ou plus]	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 sortie RGB encas- tré <sup>*3</sup>		1,89) ou plus		plus]	-	
	Module multimédia encastré <sup>*1</sup>	48(1,89) ou plus [18(0,71) ou plus]	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	-	
1	Imprimante encastrée		48 (1,89) o	u plus[18 (0,	71) ou plus]		
1	Module d'E/S externe encastré		48 (1,89) o	u plus[18 (0,	71) ou plus]		
	Module de sortie acoustique encastré	48 (1,89) ou plus[18 (0,71) ou plus]					
в		Horizontal: 78 (3,07) ou plus[18 (0,71) ou plus] Vertical: 48 (1,89) ou plus[18 (0,71) ou plus]					
с	Quand la carte SD est utilisée	50 (1,97) ou plus [20 (0,79) ou plus] 50 (1,97) ou plus] 01 plus				100 (3.94) ou plus	
U.	Quand la carte SD n'est pas utilisée		50 (1,97) o	u plus[20 (0,	79) ou plus]		
D		Horizontal: 50 (1,97) ou plus[20 (0,79) ou plus] Vertical: 80 (3,15) ou plus[20 (0,79) ou plus]					
E <sup>*4</sup> 100 (3.94) ou plus[20 (0.79) ou plus]							

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



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 panel (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
- (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 Dustproof and waterproof leadures 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 tvoical

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

- dust. An environment for a typical factory floor.
- Pollution level 4: 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 state.

Be sure to ground the GOT for ensuring the safety and complying with the EMC Directive. Functional grounding L: Improves the noise resistance

# 4.2.5 External wiring

### (1) External devices

- When a device with a hazardous voltage circuit is externally connected to the GOT, select a model which comples 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)

Rated voltage of hazardous voltage area	Surge withstand voltage (1.2/50 $\mu$ s)
150 VAC or below	2500V
300 VAC or below	4000V

### **5. INSTALLATION**

#### 5.1 **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.

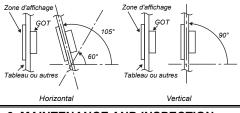
Point Applicable cable

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

### 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
- 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 températu à l'intérieur du panneau de commande ne doit pas dépasser 40°C.

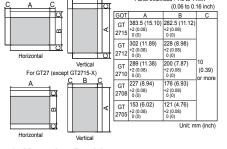


6. MAINTENANCE AND INSPECTION

Refer to the GOT2000 Series User's I maintenance and inspection for the GOT

For GT2715-> \*Panel thickness : 1.6 to 4 mm

5.2 Panel Cutting Dimensions



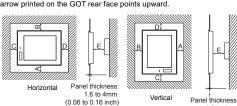
# 5.3 Mounting Position

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

For 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.





Horizontal: 50(1.97) or more[20(0.79) or more Vertical: 80(3.15) or more[20(0.79) or more] 100(3.94) or more[20(0.79) or more] This value is for use of the coaxial cable 3C-2V (JIS C 3501). For specifications of the cable, refer to the GOT2000 Series C for a controller used.
 "2: This value differs depending on the cable used.
 This value differs depending on the cable used.

5.4 Control Panel Inside Temperature and

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

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 4°C.

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

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Installation Angle

within 40 °C Installing the GOT vertically

within 40°C

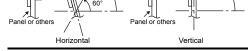
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\*3: This value differs depending on the cable used. If the bending radius of the cable used is greater than the value specified above, apply the value of the cable used. \*4: When opening or closing the battery cover: 72(2.83) or more

### 1.6 to 4mm (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 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.

	Unit: mm(inch						
	Item	GT2715	GT2712	GT2710	GT2708	GT2705	
	GOT only	48(1.89) o	48(1.89) or more[18(0.71) or more] 48(1.89) or more[29(1.14) or more]				
	Ethernet communication unit is fitted		48(1.89) or more[18(0.71) or more]				
	Bus connection unit is fit- ted	48(1.89) o	48(1.89) or more[18(0.71) or more] 23(0. [29(0. [29(0. 0 or more]				
	Serial connection unit is fitted	48(1	.89) or more[	18(0.71) or m	nore]	47(1.85) or more 50(1.97) or	
	CC-Link communication unit (GT15-J61BT13) fit- ted	48(1	48(1.89) or more[18(0.71) or more]				
Α	MELSECNET/H commu- nication unit (coaxial) fit- ted <sup>*1</sup>	48(1.89) or more [18(0.71) or more]	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	81(3.19) or more	
А	MELSECNET/H communication unit(optical) fitted <sup>*2</sup>	48(1	77(3.03) or more				
	CC-Link IE TSN communication unit is fitted	48(1	48(1.89) or more[18(0.71) or more]				
	CC-Link IE Controller Network communication unit fitted	48(1	48(1.89) or more[18(0.71) or more]				
	CC-Link IE Field Network communication unit fitted		.89) or more[	. ,	nore]	55(2.17) or more	
	Video input unit fitted <sup>*1</sup>	48(1.89) or more [18(0.71) or more]	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	-	
	RGB input unit fitted <sup>*3</sup>	48(1	.89) or more[	18(0.71) or m	nore]	-	
	Video/RGB input unit fit- ted <sup>*1*3</sup>	48(1.89) or more [18(0.71) or more]	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	-	



105°

# 5. INSTALLATION

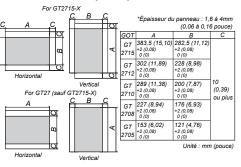
5.1 Dimensions intérieures du tableau de commande pour le montage du GOT

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

# Point

Càble applicable Certains càbles peuvent être plus longs que les dimensions spécifiées lors de la connexion au GOT. Par conséquent, prenez également en compte les dimension connecteur et le rayon de courbure du càble pour l'installation.

### 5.2 Cotes de découpe du panneau



- \*1: Cette valeur est utilisée pour le câble coaxial 3C-2V (JIS C 3501). Pour connaître les spécifications du câble, référez-vous au manuel GOT2000 Series Connection Manual for a controller used.

- 2- Cette valeur d'iffére selon le câble utilisé.
  2- Cette valeur d'iffére selon le câble utilisé.
  3- Cette valeur d'iffére selon le câble utilisé.
  Si le rayon de courbure du câble utilisé est supérieur à la valeur spécifiée ci-dessus, appliquez la valeur du câble utilisé.
  4- Pour ouvrir ou fermer le couvercle de la batterie : 72 (2,83) ou plus

## Warranty

Mitsubishi Electric will not be held liable for damage caused by factors found not to be the cause of Mitsubishi 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.

### **₼** For safe use

- This product has been manufactured as a general-purpose part for general industries, and has not been designed or manufactured to be incorporated in a device or system used in purposes related to human life.
- · 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 o losses could occur if the product fails, install appropriate backup or failsafe functions in the system.

### MITSUBISHI ELECTRIC CORPORATION

: TOKYO BUILDING, 2-7-3 MARUNOUCHI, CHIYODA-KU, TOKYO 10 DRKS : 1-14, YADA-MINAMI 5-CHOME, HIGASHI-KU, NAG

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