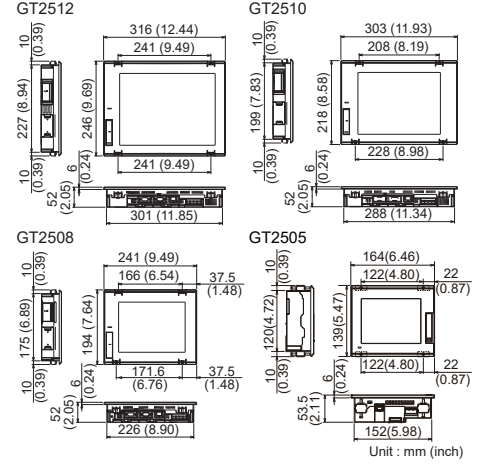


|                                                                                       |                                                                                                                            |                                                              |                                           |                                          |                                          |                                                       |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------|------------------------------------------|------------------------------------------|-------------------------------------------------------|
| temperature <sup>1</sup><br>Température<br>ambiante de<br>fonctionnement <sup>1</sup> | 0 to 55°C <sup>2,7</sup><br>0 à 55°C <sup>2,7</sup>                                                                        |                                                              |                                           |                                          |                                          |                                                       |
| Storage ambient<br>temperature                                                        | -20 to 60°C                                                                                                                |                                                              |                                           |                                          |                                          |                                                       |
| Operating ambient<br>humidity                                                         | 10 to 90% RH, non-condensing <sup>8</sup>                                                                                  |                                                              |                                           |                                          |                                          |                                                       |
| Storage ambient<br>humidity                                                           | 10 to 90% RH, non-condensing <sup>8</sup>                                                                                  |                                                              |                                           |                                          |                                          |                                                       |
| Vibration resistance                                                                  | Compliant with JIS B 3502 and IEC 61131-2                                                                                  | Under intermittent vibration<br>5 to 8.4 Hz<br>8.4 to 150 Hz | Frequency<br>5 to 8.4 Hz<br>8.4 to 150 Hz | Acceleration<br>-<br>9.8m/s <sup>2</sup> | Half-amplitude<br>3.5 mm<br>-<br>1.75 mm | Sweep count<br>10 times each in X, Y and Z directions |
|                                                                                       |                                                                                                                            | Under continuous vibration<br>5 to 8.4 Hz<br>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                |                                                              |                                           |                                          |                                          |                                                       |
| Operating atmosphere <sup>6</sup>                                                     | No greasy fumes, corrosive gas, flammable gas, excessive conductive dust, and direct sunlight (Same as storage atmosphere) |                                                              |                                           |                                          |                                          |                                                       |
| Operating altitude <sup>3</sup>                                                       | 2000 m (6562 ft) max.                                                                                                      |                                                              |                                           |                                          |                                          |                                                       |
| Installation location                                                                 | Inside control panel                                                                                                       |                                                              |                                           |                                          |                                          |                                                       |

3.2.2 For GOTs powered from the 24VDC power supply

| Item                                                         |                                | Specifications                                                                                                                                                                                                     |                          |                          |                                                                                                                     |
|--------------------------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------|
|                                                              |                                | GT2512-STBD                                                                                                                                                                                                        | GT2510-VTBD, GT2510-VTWD | GT2508-VTBD, GT2508-VTWD | GT2505-VTBD                                                                                                         |
| Power supply voltage                                         |                                | DC24 V (+25%, -20%)                                                                                                                                                                                                |                          |                          | DC24 V (+10%, -15%)                                                                                                 |
| Power consumption                                            | maximum load                   | 37 W or less                                                                                                                                                                                                       | 33 W or less             | 31 W or less             | 8.4 W or less                                                                                                       |
|                                                              | Stand alone                    | 13 W                                                                                                                                                                                                               | 10 W                     | 8 W                      | 4.3 W                                                                                                               |
|                                                              | 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 momentary power failure time                       |                                | 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 voltage, 1μs 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                                                                                                                           |                          |                          |                                                                                                                     |
| Applicable wire size                                         |                                | 0.75[mm <sup>2</sup> ] to 2[mm <sup>2</sup> ] (18 to 14 AWG)                                                                                                                                                       |                          |                          |                                                                                                                     |
| Applicable solderless terminal                               |                                | Solderless terminal for M3 screw RAA1.25-3, V2-S3.3, V2-N3A, FV2-N3A<br>Manufacturer: J.S.T. MFG.CO.,LTD.<br>Compatible wire: 18 to 16 AWG (RAA1.25-3 only), 16 to 14 AWG (others)<br>Certification: UL/CSA Listed |                          |                          |                                                                                                                     |
| 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. Especially, for the products to be sold in European countries, conformance to the EMC Directive, which is one of the European Directives, has been mandatory as the EMC standards since 1996. In addition, conformance to the Low Voltage Directive, another European Directive, has also been mandatory as the electrical safety standards since 1997. In European countries, if a product meets the requirements of the EMC Directive or the Low Voltage Directive, the product's manufacturer must declare conformity of the product and affix the CE mark to the product. In some countries or regions other than European countries, the product's manufacturer also must declare conformity of the product and affix a designated mark to the product (example: UKCA mark in the UK).

- Authorized representative in the EU and the UK
- The authorized representative in the EU and the UK is shown below.  
Name :Mitsubishi Electric Europe BV  
Address :Mitsubishi-Electric-Platz 1, 40882 Ratingen, Germany

This section describes the EMC Directive and Low Voltage Directive as examples for conformance to EMC and electrical safety standards. EMC and electrical safety standards in each country are stipulated to be

consistent with the corresponding international standards. When the requirements are consistent with the same standards, common measures are taken to conform to the standards in different countries. For the EMC Directive, regulatory compliance with equivalent EMC standards are required for example in the UK and Korea. For the Low Voltage Directive, regulatory compliance with equivalent electrical safety standards are required for example in the UK.

**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)". Items 4.1.1 through 4.1.3 summarize the precautions to use GOT and configure the mechanical unit in order to match the EMC directives. We exerted our best efforts on the descriptions herein based on the requirements and standards; however, we do not guarantee that the entire equipment produced according to the descriptions complies with the above-mentioned directives. The manufacturer of equipment must determine how to make the equipment compliant with the EMC Directive and carry out the conformity assessment.

4.1.1 EMC directive

| Applied standard | Test standard                                                           | Test details                                                                                                                                  | Standard value                                                                                                                                                                                                                    |
|------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EN61131-2 : 2007 | CISPR16-2-3 Radiated noise <sup>*1</sup>                                | Electromagnetic emissions from the product are measured.                                                                                      | 30 M-230 MHz QP: 30 dBμV/m (30 m in measurement range) <sup>*2</sup> , <sup>*3</sup> 230 M-1000 MHz QP: 37 dBμV/m(30 m in measurement range) <sup>*2</sup> , <sup>*3</sup>                                                        |
|                  | CISPR16-2-1 Conducted noise <sup>*1</sup>                               | 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>                                                                                                                                |
|                  | IEC61000-4-2 Electrostatic immunity <sup>*1</sup>                       | 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 <sup>*1</sup> | 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 <sup>*1</sup>                   | 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                                                                                                                                                            |
|                  | IEC61000-4-5 Surge immunity <sup>*1</sup>                               | Immunity test in which lightning surge is applied to the product.                                                                             | AC power type Power line (between line and ground): ± 0.5 kV Power line (between lines): ± 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 |
|                  | IEC61000-4-6 Conducted RF immunity <sup>*1</sup>                        | Immunity test in which a noise induced 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%                                                                                                                                   |
|                  |                                                                         |                                                                                                                                               |                                                                                                                                                                                                                                   |

- \*1: The GOT is an open type device (device installed to another device) and must be installed in a conductive control panel. The above test items are conducted in the condition where the GOT is installed on the conductive control panel and combined with the Mitsubishi Electric PLC.
- \*2: QP (Quasi-Peak): Quasi-peak value, Mean: Average value
- \*3: The above test items are conducted in the following conditions. 30 M-230 MHz QP: 40 dBμV/m (10 m in measurement range) 230 M-1000 MHz QP: 47 dBμV/m (10 m in measurement range)

4.1.2 Installation on a control panel

The GOT is an open type device (device installed to another device) and must be installed in a conductive control panel. It not only assure the safety but also has a large effect to shut down the 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 bolt 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 (3.94 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 suppressed. 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 antenna. 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 wires. By twisting with the earthing wire, noise flowing from the power 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.

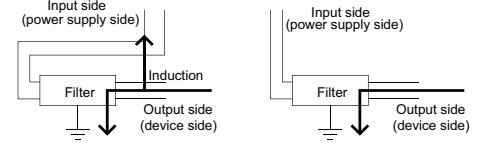
4.1.3 Noise filter (power supply line filter)

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.) Use a noise filter equivalent to the following noise filters (double π-type filters).

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

The precautions required when installing a noise filter are described below.

(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 filter.



- Installing the input and output cables together will cause noise induction.
- (2) Connect the noise filter's ground terminal to the control panel with the shortest cable as possible (approx. 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 make the final

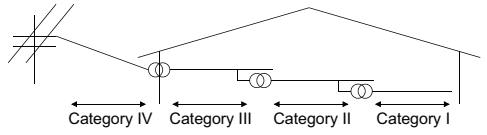
judgement about the application method of the Low Voltage Directive and the product compatibility.

4.2.1 Standard subject to GOT

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

4.2.2 Power supply

The insulation specification of the GOT was designed assuming installation category II. Be sure to use the installation category II power supply to the GOT. The installation category indicates the durability level against surge voltage generated by lightning strike. Category I has the lowest durability; category IV has the highest 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 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 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 ingress 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 pollution 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 to a control room or on the floor of a typical factory. |
| Pollution level 3: | An environment where conductive dust exists 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 ⊥ : Improves the noise resistance.

4.2.5 External wiring

- (1) External devices
- If the external device connected to the GOT has a hazardous voltage circuit, provide a reinforced insulation to isolate the interface circuit to the GOT from the hazardous voltage circuit.
- (2) Reinforced insulation
- The reinforced insulation is such insulation that has withstand voltages as shown in the following table.
- Reinforced Insulation Withstand Voltage (Installation Category II, source : IEC664)
- |                                         |                                    |
|-----------------------------------------|------------------------------------|
| Rated voltage of hazardous voltage area | Surge withstand voltage (1.2/50μs) |
| 150 VAC or below                        | 2500 V                             |
| 300 VAC or below                        | 4000 V                             |

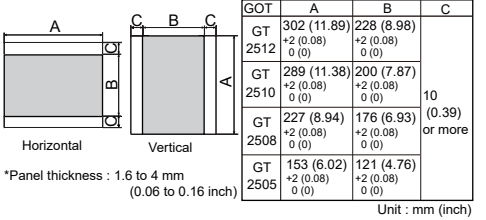
5. INSTALLATION

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 well for installation. |

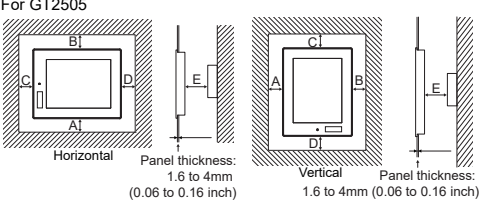
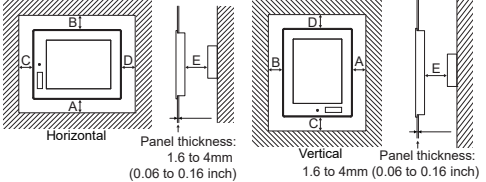
5.2 Panel Cutting Dimensions



\*Panel thickness : 1.6 to 4 mm (0.06 to 0.16 inch)

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 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 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                                  | 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 | 48(1.89) or more [18(0.71) or more]                           | 230(9.1) or more [29(1.14) or more] | -                                   | -      |
| Bus connection unit is fitted         | 48(1.89) or more [18(0.71) or more]                           | 48(1.89) or more [18(0.71) or more] | -                                   | -      |
| A                                     | Serial connection unit is fitted                              | 48(1.89) or more [18(0.71) or more] | -                                   | -      |
|                                       | CC-Link communication unit (GT15-J61BT13) fitted              | 48(1.89) or more [18(0.71) or more] | -                                   | -      |
|                                       | MELSECNET/H communication unit (coaxial) fitted <sup>*1</sup> | 48(1.89) or more [38(1.50) or more] | 67(2.64) or more                    | -      |
|                                       | MELSECNET/H communication unit(optical) fitted <sup>*2</sup>  | 48(1.89) or more [18(0.71) or more] | -                                   | -      |

| Item                                        | GT2512                                             | GT2510                              | GT2508           | GT2505                                                                                        |
|---------------------------------------------|----------------------------------------------------|-------------------------------------|------------------|-----------------------------------------------------------------------------------------------|
| CC-Link IE TSN communication unit is fitted | 48(1.89) or more [18(0.71) or more]                | -                                   | -                | -                                                                                             |
| Network communication unit fitted           | 48(1.89) or more [18(0.71) or more]                | -                                   | -                | -                                                                                             |
| A                                           | CC-Link IE Field Network communication unit fitted | 48(1.89) or more [18(0.71) or more] | -                | -                                                                                             |
|                                             | Printer unit fitted                                | 48(1.89) or more [18(0.71) or more] | -                | -                                                                                             |
| B                                           | External I/O unit fitted                           | 48(1.89) or more [18(0.71) or more] | -                | -                                                                                             |
|                                             | Sound output unit fitted                           | 48(1.89) or more [18(0.71) or more] | -                | -                                                                                             |
| C                                           | When the SD card is used                           | 50(1.97) or more [20(0.79) or more] | 50(1.97) or more | Horizontal: 80(3.15) or more [20(0.79) or more] Vertical: 50(1.97) or more [20(0.79) or more] |
|                                             | When the SD card is not used                       | 50(1.97) or more [20(0.79) or more] | 50(1.97) or more | Horizontal: 50(1.97) or more [20(0.79) or more] Vertical: 80(3.15) or more [20(0.79) or more] |
| D                                           | When the SD card is not used                       | 50(1.97) or more [20(0.79) or more] | 50(1.97) or more | Horizontal: 50(1.97) or more [20(0.79) or more] Vertical: 80(3.15) or more [20(0.79) or more] |
|                                             | When the SD card is not used                       | 50(1.97) or more [20(0.79) or more] | 50(1.97) or more | Horizontal: 50(1.97) or more [20(0.79) or more] Vertical: 80(3.15) or more [20(0.79) or more] |
| E <sup>3</sup>                              | 100(3.94) or more [20(0.79) or more]               | -                                   | -                | -                                                                                             |

- \*1: This value is for use of the coaxial cable 3C-2V (JIS C 3501). For specifications of the cable, refer to the GOT2000 Series Connection Manual for a controller used.
- \*2: This value differs depending on the cable used.
- \*3: When opening or closing the battery cover: 72(2.83) or more

5.4 Control Panel Inside Temperature and Installation Angle

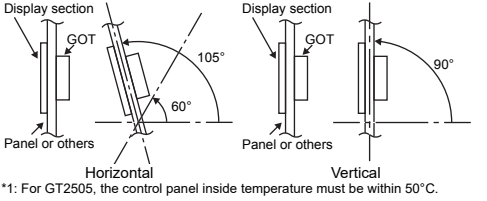
When installing the GOT to a panel, set the display section as shown below.Using the GOT with the installation angle other than the following deteriorates the GOT earlier.

Installing the GOT horizontally

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

Installing the GOT vertically

When the GOT is installed at a 90° angle, the control panel inside temperature must be within 55°C<sup>\*1</sup>. When the GOT is installed at any angle other than 90°, the control panel inside temperature must be within 40°C.



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

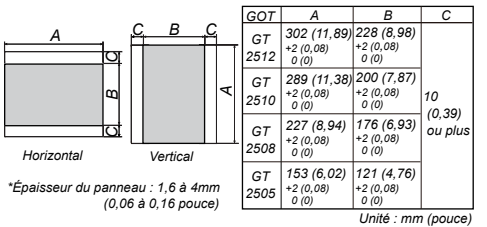
5. INSTALLATION

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                                                                                                                                                                                                                            |
| Câble applicable                                                                                                                                                                                                                 |
| 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. |

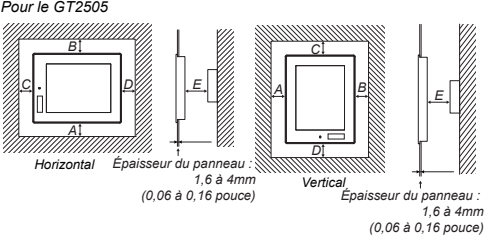
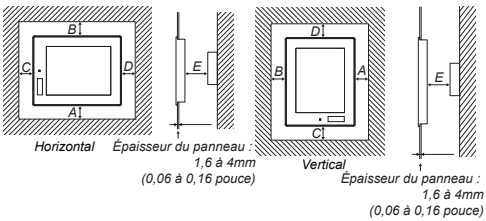
5.2 Cotes de découpe du panneau



\*Épaisseur du panneau : 1,6 à 4 mm (0,06 à 0,16 pouce)

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 haut.



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

Toutefois, maintenez la température ambiante du GOT à 55°C ou moins.

| Article                                   | GT2512                                                                | GT2510                                                                                            | GT2508                                                                                            | GT2505 |
|-------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------|
| GOT uniquement                            | 48 (1,89) ou plus [18 (0,71) 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 encastree | 48 (1,89) ou plus [18 (0,71) ou plus]                                 | 23 (0,91) ou plus [29 (1,14) ou plus]                                                             | -                                                                                                 | -      |
| Unité de connexion de bus encastree       | 48 (1,89) ou plus [18 (0,71) ou plus]                                 | 23 (0,91) ou plus [29 (1,14) ou plus]                                                             | -                                                                                                 | -      |
| A                                         | Unité de connexion série encastree                                    | 48 (1,89) ou plus [18 (0,71) ou plus]                                                             | -                                                                                                 | -      |
|                                           | Module de communication CC-Link (GT15-J61BT13) encastree              | 48 (1,89) ou plus [18 (0,71) ou plus]                                                             | -                                                                                                 | -      |
|                                           | Module de communication MELSECNET/H (coaxial) encastree <sup>*1</sup> | 48 (1,89) ou plus [38 (1,50) ou plus]                                                             | 67 (2,64) ou plus                                                                                 | -      |
|                                           | Module de communication MELSECNET/H (optique) encastree <sup>*2</sup> | 48 (1,89) ou plus [18 (0,71) ou plus]                                                             | -                                                                                                 | -      |
| B                                         | Module de communication CC-Link IE TSN encastree                      | 48 (1,89) ou plus [18 (0,71) ou plus]                                                             | -                                                                                                 | -      |
|                                           | Module de communication réseau de contrôleleur CC-Link IE encastree   | 48 (1,89) ou plus [18 (0,71) ou plus]                                                             | -                                                                                                 | -      |
|                                           | Module de communication réseau de champ CC-Link IE encastree          | 48 (1,89) ou plus [18 (0,71) ou plus]                                                             | -                                                                                                 | -      |
|                                           | Imprimante encastree                                                  | 48 (1,89) ou plus [18 (0,71) ou plus]                                                             | -                                                                                                 | -      |
| A                                         | Module d'E/S externe encastree                                        | 48 (1,89) ou plus [18 (0,71) ou plus]                                                             | -                                                                                                 | -      |
|                                           | Module de sortie acoustique encastree                                 | 48 (1,89) ou plus [18 (0,71) ou plus]                                                             | -                                                                                                 | -      |
| B                                         |                                                                       | Horizontal: 78 (3,07) ou plus [18 (0,71) ou plus] Vertical: 48 (1,89) ou plus [18 (0,71) ou plus] | Horizontal: 80 (3,15) ou plus [20 (0,79) ou plus] Vertical: 50 (1,97) ou plus [20 (0,79) ou plus] |        |

| Article | GT2512                               | GT2510                                                                                            | GT2508                                | GT2505                                                                                            |
|---------|--------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------------------|
| C       | Quand la carte SD est utilisée       | 50 (1,97) ou plus [20 (0,79) ou plus]                                                             | 50 (1,97) ou plus                     | Horizontal: 80 (1,97) ou plus [20 (0,79) ou plus] Vertical: 80 (3,15) ou plus [20 (0,79) ou plus] |
|         | Quand la carte SD n'est pas utilisée | 50 (1,97) ou plus [20 (0,79) ou plus]                                                             | 50 (1,97) ou plus                     | Horizontal: 50 (1,97) ou plus [20 (0,79) ou plus] Vertical: 80 (3,15) ou 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] | 50 (1,97) ou plus [20 (0,79) ou plus] | Horizontal: 50 (1,97) ou plus [20 (0,79) ou plus] Vertical: 80 (3,15) ou plus [20 (0,79) ou plus] |
|         | E <sup>3</sup>                       | 100 (3,94) ou plus [20 (0,79) ou plus]                                                            | 50 (1,97) ou plus [20 (0,79) ou plus] |                                                                                                   |

- \*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 diffère selon le câble utilisé.
- \*3: Pour ouvrir ou fermer le couvercle de la batterie : 72 (2,83) ou plus

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 être d