

**MITSUBISHI ELECTRIC**

# GOT2000 Series Supplementary Description

(Compliance with the ATEX Directive)

GT2712-STWD    GT2710-VTWD    GT2510-VTWD  
GT2508-VTWD

Thank you for purchasing the GOT2000 Series.

**Prior to use, please read both this manual and the detailed manual thoroughly to fully understand the product.**

<b>MODEL</b>	GOT2000-U-ATEX-EK
<b>Model code</b>	1D7MQ3
IB(NA)-0800551ENG-B(1609)MEE	

**SAFETY PRECAUTIONS**  
(Always read these precautions before using this equipment.)

The GOT that complies with the ATEX Directive 94/9/EC of the EU Directives is in compliance with IECEx Scheme IEC 60079/0/15/31 standards has the Ex marking on its rating plate. To use the ATEX-compliant GOT in explosive atmospheres, thoroughly read this manual, the GOT2000 Series User's Manual (Hardware), and other relevant manuals introduced therein. Make sure to pay full attention to safety and handle the product correctly.

The precautions given in this manual are concerned with the ATEX-compliant GOT to be used specifically in explosive atmospheres. In this manual, the safety precautions are ranked as "DANGER".

**DANGER** Indicates that incorrect handling may cause hazardous conditions, resulting in death or serious injury.

Always follow the instructions because they are important to personal safety. Please save this manual to make it accessible when required and always forward it to the end user.

**INSTALLATION PRECAUTIONS**

**DANGER**

When conducting work (such as installing, operating, or maintaining the product) in an explosive atmosphere, conform to the following standards, laws, and regulations. Not doing so results in death or serious injury.

- Standard IEC 60079-14: Explosive atmospheres - Part 14: Electrical installations design, selection and erection
- Standard EN 60079-17: Explosive atmospheres - Part 17: Inspection and maintenance of electrical installations in hazardous areas
- Regional laws and regulations, etc.

Use both the fittings included with the GOT and separately sold special fittings (\*1) to install the GOT to the control panel.

\*1 When purchasing special fittings, consult your local Mitsubishi representative or branch office.

GOT	Special fitting name
GT2712-STWD	GT25-12FIT-EXS
GT2710-VTWD	GT25-10FIT-EXS
GT2510-VTWD	

GT2508-VTWD does not require special fittings.

**DANGER**

For GT2508-VTWD (4 fittings)

a: Use the Installation fitting (4 fittings)

For GT2710-VTWD, GT2510-VTWD (6 fittings)

a: Use the Installation fitting (4 fittings)  
b: Use GT25-10FIT-EXS (separately sold product). (2 fittings)

For GT2712-STWD (8 fittings)

a: Use the Installation fitting (4 fittings)  
b: Use GT25-12FIT-EXS (separately sold product). (4 fittings)  
In the middle (b') of the top, attach a large metal fittings

• Press "b" (GT25-12FIT-EXS, GT25-10FIT-EXS) by hand and attach it.

Sold separately Protective sheet(\*2) is attached on the GOT surface.

\*2 For the Protective sheet sold separately, contact your local sales office.

GOT	Protective sheet name
GT2712-STWD	GT25-12PSCC-UC
GT2710-VTWD	GT25-10PSCC-UC
GT2510-VTWD	
GT2508-VTWD	GT25-08PSCC-UC

If the protective sheet without the hole for the USB environmental protection cover is attached, position the sheet from the upper left of the GOT.

**DANGER**

To attach the protective sheet, attach it from one direction gradually. Make sure to fit the protective sheet onto the joining surface closely without leaving any air between them. Attach the protective sheet with adding additional pressure sufficiently to the adhesive side of the outer circumference. To hold adequate strength of the adhesive joining, use the GOT after a lapse of about 24 hours.

If any of the fittings is out of place, the GOT installed to the control panel does not comply with the ATEX Directive. (The GOT cannot be used in explosive atmospheres.)

**PRECAUTIONS FOR INSTALLATION, REMOVAL, OPERATION, AND MAINTENANCE**

**DANGER**

The ATEX-compliant GOT is usable in Zone 2 or Zone 22 explosive atmospheres.

- Low mechanical impact: This equipment is to be installed in an area of low mechanical impact.
- Electrostatic charging: Wipe the front panel with a damp cloth before turning on the equipment.
- Extension and auxiliary extension interfaces: Extension and auxiliary extension interfaces cannot be used in explosive atmospheres.
- Before mounting or demounting, replacing, or wiring the GOT, make sure that there is no explosive gas or dust around the product.
- The ambient temperature of the protective enclosure must be 55°C or less.
- Make sure that each interface, the terminal block, an SD card, and the battery cover are secured firmly into place.
- The USB cable must be clamped appropriately at the USB interface (Host/Device). (Figure 1 is an example of clamping a cable at the USB interface (Host).)

Figure 1

- The GOT must be installed in a protective enclosure with the following protective structure rating.
  - IP54 for use in gas atmospheres
  - IP6X for use in dust atmospheres
- The protective enclosure cannot be opened while the system is energized.
- Make sure to turn off the GOT, and then conduct work (such as wiring or installing the GOT and inserting or removing an SD card).
- Make sure that the FG terminal of the power supply is grounded.
- Make sure that the GOT is screwed firmly into place.
- Do not use any damaged equipment.

**Manual**

The following shows manuals relevant to this product.

Manual name	Manual number (Model code)
GOT2000 Series User's Manual (Hardware)	SH-081194ENG (1D7MJ5)

For detailed manuals and relevant manuals, refer to the Help or the PDF manuals stored in the DVD-ROM for the screen design software used.

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

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**Before using the GOT**

Connect the GOT to 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).

**1. CONFORMING STANDARDS**

The GOT with the Ex marking on its rating plate complies with the following standards.

- Standard EN 60079-0: Explosive atmospheres - Part 0: Equipment - General requirements
- Standard EN 60079-15: Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
- Standard EN 60079-31: Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

**2. Ex MARKING**

The ATEX-compliant GOT has the Ex marking on its rating plate as shown below.

|| 3 G Ex nA | IIC T5 Gc  
|| 3 D Ex tc | IIC T100°C Dc  
Tamb 0°C to +55°C  
TUV 15 ATEX 7585 X  
IECEx TUR 15.0030 X

The following shows the meaning of the Ex marking.

(1) II 3G Ex nA IIC T5 Gc  
II: Product group (non-mining)  
3G: Product category (Zone 2, gases/vapors)  
Ex: Explosion proof  
nA: Type of protection (Non-sparking equipment)  
IIC: Gas atmosphere (Typical gas: hydrogen)  
T5: Temperature class (Highest surface temperature: 100°C)  
Gc: Equipment protection level (Non-sparking equipment during normal operation)

(2) II 3D Ex tc IIC T100°C Dc  
II: Product group (non-mining)  
3D: Product category (Zone 22, dusts)  
Ex: Explosion proof  
Tc: Type of protection (Dust ignition protection)  
IIC: Dust atmosphere (Conductive dust)  
T100°C: Highest surface temperature 100°C  
Dc: Equipment protection level (Dust ignition protection by enclosure)

(3) Tamb 0°C to +55°C  
Operating ambient temperature ranging from 0°C to 55°C

(4) TUV 15 ATEX 7585 X  
Certificate number

(5) IECEx TUR 15.0030 X  
Certificate number

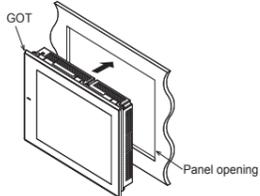
**3. INSTALLING AND REMOVING THE GOT**

**3.1 Installing the GOT**

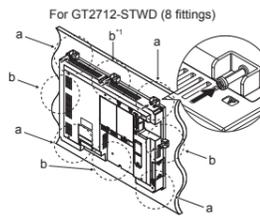
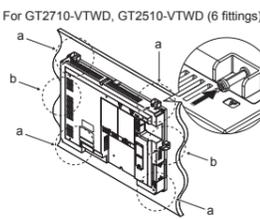
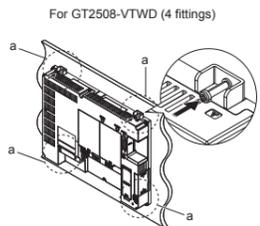
Install the GOT in the following procedure. For the panel cutting dimensions for the GOT, refer to the following. The following shows an installation example for the horizontal direction.

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

Step1. Insert the GOT rear face into the panel opening.

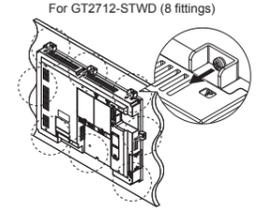
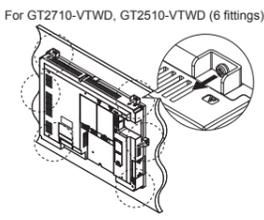
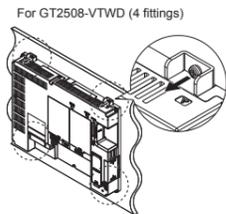


Step2. While positioning a fitting on the mounting hole of the GOT, tighten a screw within the specified torque range (0.42 N·m to 0.48 N·m). Tightening the screw with a torque exceeding the specified torque range may deform the GOT front panel, causing the protective sheet to become crinkled.

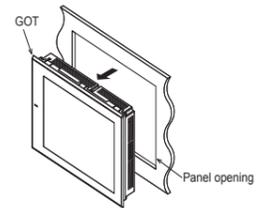


**3.2 Removing the GOT**

Step1. Remove the screws from the GOT. Remove the fittings from the GOT.



Step2. Remove the GOT from the panel opening.



**4. INSTALLING AND REMOVING THE BATTERY**

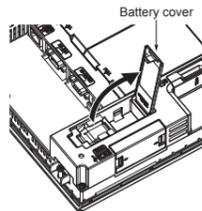
Install a battery to the GOT before the first startup. GT27 and GT25 come with a battery in the battery holder. Before using GT27 and GT25, connect the battery connector to the GOT connector.

To replace the battery, leave the GOT on for more than 10 minutes before replacing the battery. Replace the battery within 5 minutes. The following shows the procedure for installing and removing a battery. (Described with the GOT rear face facing up.)

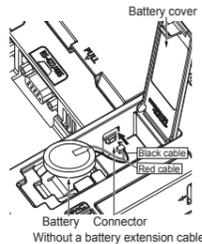
**4.1 Installing the Battery**

**4.1.1 Installing the battery to GT2712-STWD, GT2710-VTWD or GT2510-VTWD**

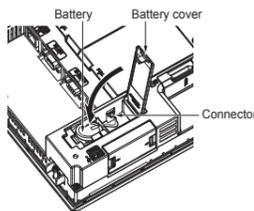
Step1. Make sure that the GOT power is off.  
Step2. Install the battery to the GOT rear face. Open the battery cover as shown below.



Step3. Insert the battery connector to the GOT connector.



Step4. After installing the battery to the battery holder of the GOT, close the battery cover until it clicks.

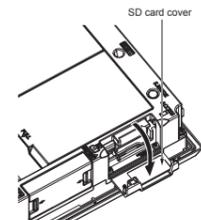


Step5. Turn on the GOT.

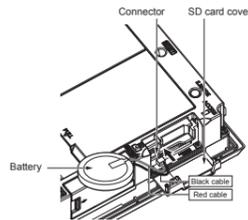
Step6. Check that the battery condition is normal with the utility.

**4.1.2 Installing the battery to GT2508-VTWD**

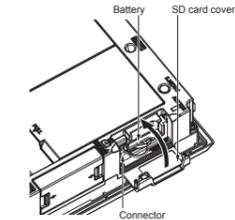
Step1. Make sure that the GOT power is off.  
Step2. Install the battery inside the SD card cover on the side of the GOT. Open the SD card cover as shown in the following figure.



Step3. Insert the battery connector to the GOT connector.



Step4. After installing the battery to the battery holder of the GOT, close the SD card cover until it clicks.



Step5. Turn on the GOT.

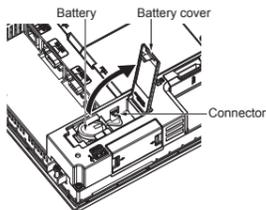
Step6. Check that the battery condition is normal with the utility. For the details of the battery condition display, refer to the following.

## 4.2 Removing the Battery

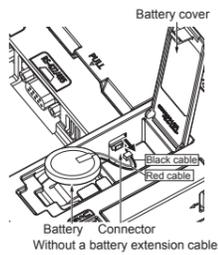
### 4.2.1 Removing the battery to GT2712-STWD, GT2710-VTWD or GT2510-VTWD

Step1. Make sure that the GOT power is off.

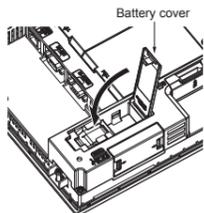
Step2. The battery is stored in the GOT rear face. Open the battery cover as shown below.



Step3. Unplug the battery connector from the GOT connector.



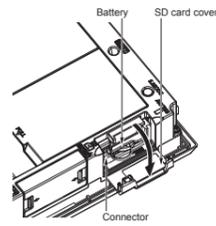
Step4. Push and close the battery cover until it clicks.



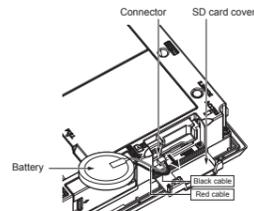
### 4.2.2 Removing the battery to GT2508-VTWD

Step1. Make sure that the GOT power is off.

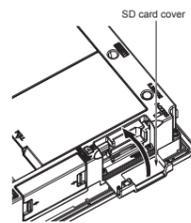
Step2. The battery is stored inside the SD card cover on the side of the GOT. Open the SD card cover as shown in the following figure.



Step3. After removing the battery from the battery holder of the GOT, unplug the battery connector from the GOT connector.



Step4. Close the SD card cover until it clicks.



## 5. EC DECLARATION OF CONFORMITY



### EU DECLARATION OF CONFORMITY

We, Manufacturer : MITSUBISHI ELECTRIC CORPORATION  
 Address (Place of Declara) : TOKYO 100-8310, JAPAN  
 Brand Name : MITSUBISHI ELECTRIC  
 declare under our sole responsibility that the product  
 Description : Graphic Operation Terminal  
 Type of Model : GOT2000 Series  
 (GT2712-STWD, GT2710-VTWD, GT2510-VTWD, GT2508-VTWD)  
 to which this declaration relates is in conformity with the following standard and directive.

Directive	Harmonized Standard	Notified Body
EMC Directive	2004/108/EC EN6131-2:2007	—
ATEX Directive	94/9/EC EN 60079-0:2012/A11:2013 EN 60079-15:2010 EN 60079-31:2014	TUV Rheinland

to ATEX directive: II 3 G D  
 Marking of units: Ex nA IIC T5 Gc  
 Additional marking: Ex nA IIC T50°C Dc  
 Tamb. 0°C to +55°C  
 EC type examination certification: TUV 15/ATEX 7555 X  
 Delivered by: TUV Rheinland ATEX Notified Body

Authorized representative in Europe  
 (The person authorized to compile the Technical file or relevant Technical documentation)  
 Harland Pütz  
 FA Product Marketing Director MITSUBISHI ELECTRIC EUROPE B.V., German Branch  
 Cobbe Str. 8, 45800 Ratingen, Germany  
 Issue Date (Date of Declaration) 5 February 2016

Signed for and on behalf of  
 (Signature) *Leiyang Kim*  
 [Leiyang Kim]  
 General Manager / IM System Dept  
 MITSUBISHI ELECTRIC CORPORATION

## Warranty

Mitsubishi will not be held liable for damage caused by factors found not to be the cause of Mitsubishi; machine damage or lost profits caused by faults in the Mitsubishi products; damage, secondary damage, accident compensation caused by special factors unpredictable by Mitsubishi; damages to products other than Mitsubishi 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.
- This product has been manufactured under strict quality control. However, when installing the product where major accidents or losses could occur if the product fails, install appropriate backup or failsafe functions in the system.

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When exported from Japan, this manual does not require application to the Ministry of Economy, Trade and Industry for service transaction permission.

Specifications subject to change without notice.  
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