

MITSUBISHI ELECTRIC

GOT2000 Series

Protective Cover for Oil

for GT27/GT25/GT23/GT2107

User's Manual

GT20-15PCO **GT25-05PCO**
GT20-12PCO **GT25-05PCO-2**
GT20-10PCO **GT25T-07WPCO**
GT20-08PCO
GT21-10WPCO
GT21-07WPCO

Thank you for choosing Mitsubishi Electric Graphic Operation Terminal (GOT).

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

MODEL	GT20/GT25-PCO-U-JE
MODEL CODE	1D7MH8
	IB(NA)-0800498-F(1906)MEE

GOT2000

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SAFETY PRECAUTIONS

(Always read these precautions before using this equipment.)

Before using this product, please read this manual and the relevant manuals introduced in this manual carefully and pay full attention to safety to handle the product correctly.

The precautions given in this manual are concerned with this product. In this manual, the safety precautions are ranked as "WARNING" and "CAUTION".

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

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

Note that the CAUTION level may lead to a serious accident according to the circumstances. Always follow the precautions of both levels because they are important to personal safety. Please save this manual to make it accessible when required and always forward it to the end user.

[MOUNTING PRECAUTIONS]

WARNING

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

CAUTION

- When mounting the GOT to the control panel, tighten the mounting screws in the specified torque range. Overtightening can cause the GOT to drop, short circuit or malfunction. Overtightening can cause a drop, short circuit or malfunction due to the damage of the screws or the GOT.

[STARTUP AND MAINTENANCE PRECAUTIONS]

CAUTION

- Daily check the protective cover for oil with eyes. When you find extreme dirt or scratches on the surface, immediately replace it with new one. Using the protective cover for oil with decreased visibility may cause malfunction.

[DISPOSAL PRECAUTIONS]

CAUTION

- When disposing of this product, treat it as industrial waste.

[TRANSPORTATION PRECAUTIONS]

CAUTION

- 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

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 e-Manual or PDF manuals stored in the DVD-ROM for the screen design software used.

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

Packing List

The following items are included.

Model	Product	Quantity
GT20-15PCO GT20-12PCO GT20-10PCO GT20-08PCO GT21-10WPCO GT21-07WPCO GT25-05PCO GT25-05PCO-2 GT25T-07WPCO	Protective cover for oil	1
	GOT2000 Series Protective Cover for Oil for GT27/GT25/GT23/GT2107 User's Manual (This manual)	1

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

1. OVERVIEW

This user's manual explains GOT 2000 series protective cover for oil (hereinafter referred to as the protective cover for oil). Use of the protective cover for oil improves oil resistance and chemical resistance of the GOT.

- *1: Note that the structure does not guarantee protection in all users' environments. The protective cover for oil may not be used in an environment where it is exposed to oil or chemicals for a long time, or where oil mist fills the air.

The following table shows the protective covers for oil and the screen sizes for the applicable GOT

Model	Screen sizes for the applicable GOTs
GT20-15PCO	15"
GT20-12PCO	12.1"
GT20-10PCO	10.4"
GT20-08PCO	8.4"
GT21-10WPCO	10.1" wide screen
GT21-07WPCO	7" wide screen
GT25-05PCO	5.7" (except GT2505)
GT25-05PCO-2	5.7" (GT2505)
GT25T-07WPCO	7" wide screen (rugged model)

2. SPECIFICATIONS

2.1 General specifications

Item	Specifications
Operating ambient temperature	0°C to 50°C *1
Storage ambient temperature	-20°C to 50°C *2
Operating ambient humidity	10% RH to 90% RH, non-condensing
Storage ambient humidity	10% RH to 90% RH, non-condensing

*1: For GT25T-07WPCO: -20°C to 50°C

*2: For GT25T-07WPCO: -30°C to 50°C

2.2 Performance specifications

The performance specifications of the protective cover for oil are indicated below.

Item	GT20-15PCO	GT20-12PCO	GT20-10PCO	GT20-08PCO
Level of protection	IP67F Caution: The protective cover for oil may not be used in an environment where it is exposed to oil or chemicals for a long time, or where oil mist fills the air.			
Material	Cover: Nitrile rubber, Display: PET sheet			
Weight	0.31(0.68)	0.21(0.46)	0.20(0.44)	0.16(0.35)

Item	GT21-10WPCO	GT21-07WPCO
Level of protection	IP67F Caution: The protective cover for oil may not be used in an environment where it is exposed to oil or chemicals for a long time, or where oil mist fills the air.	
Material	Cover: Nitrile rubber, Display: PET sheet	
Weight	0.14(0.30)	0.09(0.20)

Item	GT25-05PCO	GT25-05PCO-2	GT25T-07WPCO
Level of protection	IP67F Caution: The protective cover for oil may not be used in an environment where it is exposed to oil or chemicals for a long time, or where oil mist fills the air.		
Material	Cover: Nitrile rubber, Display: PET sheet		
Weight	0.09(0.20)	0.09(0.20)	0.15(0.33)

Unit: kg(lb)

POINT

For installing the GOT with the protective cover for oil, the control panel thickness must be 1.6 to 3mm because of the cover thickness. (Control panel thickness without the cover: 1.6 to 4mm)

2.3 Oil resistance, chemical resistance

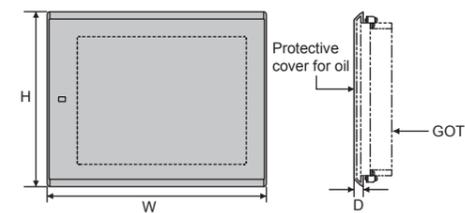
The protective cover for oil is made of materials with high oil and chemical resistance so that the cover can be used in various oil and chemical atmospheres. Because oils, including cutting oils, contain a small amount of additives depending on oil products, oil resistance of the cover cannot be stated. Prior to use the cover, test the cover in operating environments, and then check the oil and chemical resistance of the cover.

- Test contents and oil resistance of cover

The protective cover for oil is soaked in the following oils for 2000 hours, and then oil resistance of the cover is checked.

Oil type	Product	Change in appearance and dimension	Adhesion between cover and sheet	Oil resistance
Water-insoluble cutting oil	Grinding oil (Yushion oil CL35)	No change	No change	○
Water-soluble cutting oil	Grinding oil (Noritake cool CG-50P)	No change	No change	○

3. EXTERNAL DIMENSIONS



Dimensions	GT20-15PCO	GT20-12PCO	GT20-10PCO	GT20-08PCO
W	409 (16.10)	372 (14.65)	314 (12.36)	252 (9.92)
H	314.5 (12.38)	261 (10.28)	233 (9.96)	209 (9.18)
D	12.5 (0.49)	12 (0.47)	12 (0.47)	12 (0.47)

Dimensions	GT21-10WPCO	GT21-07WPCO
W	263(10.35)	200(7.87)
H	205(8.07)	153(6.02)
D	12(0.47)	12(0.47)

Dimensions	GT25-05PCO	GT25-05PCO-2	GT25T-07WPCO
W	178(7.01)	175(6.89)	225(8.86)
H	154(6.06)	153.5(6.04)	169(6.65)
D	12(0.47)	12(0.47)	12(0.47)

Unit: mm (inch)

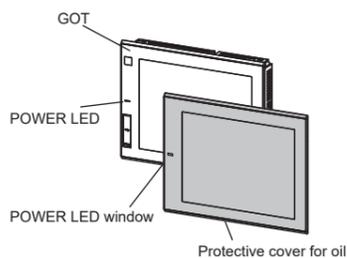
4. INSTALLATION AND REMOVAL PROCEDURE

POINT
For attaching the protective cover for oil to the GOT already mounted on the control panel, follow the procedures as below.
 • Remove the GOT from the control panel.
 Make sure to externally shut off all phases of the power supply and remove all cables from the GOT in advance.
 • Clean dirt off surfaces of the GOT and control panel.

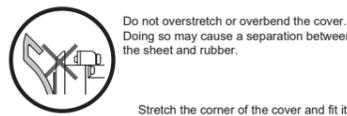
4.1 Installing the protective cover for oil

The following shows how to attach the protective cover for oil on GT2712 as an example.

- Align the POWER LED window of the cover and the POWER LED of the GOT front panel to ensure that the cover orientation is appropriate.

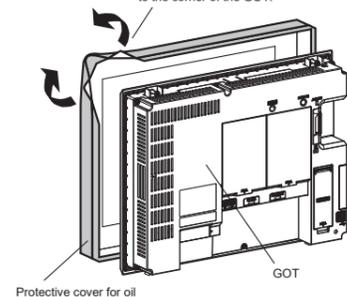


- Stretch one corner of the cover, and fit it to the corner of the GOT front panel.

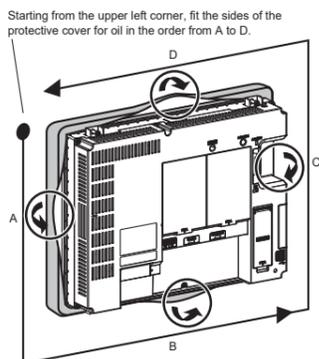


Do not overstretch or overbend the cover. Doing so may cause a separation between the sheet and rubber.

Stretch the corner of the cover and fit it to the corner of the GOT.



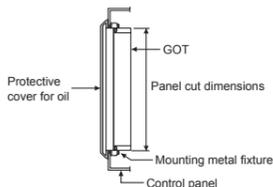
- Starting from one corner, fit the other corners of the cover sequentially to the corners of the GOT, and then the sides (in the order of the arrows from A to D). Make sure that the gasket of the GOT rear face is entirely covered.



POINT
To prevent liquid ingress into the control panel, make sure that the gasket is completely covered.

Make sure that the corners of the protective cover for oil align those of the GOT front panel.

- Mount the GOT onto the control panel. When the control panel is dirty, clean the control panel. The panel cutting dimensions and mounting screw tightening torque with the protective cover for oil are the same as those without the cover. For mounting the GOT on the control panel, refer to the GOT2000 Series User's Manual (Hardware)



4.2 Removing the protective cover for oil

Remove the protective cover for oil in the reverse of the installation procedure.

5. PRECAUTIONS FOR USE

- The protective cover for oil is a consumable product. Check the cover for scratch, damage or dirt at regular intervals, and replace with new one if necessary.
- Do not push the protective cover for oil with pointed tools, including mechanical pencils and screwdrivers. Doing so causes scratches and damages of the cover.
- Do not clean the protective cover for oil with bleaches, thinners, organic solvents, corrosive chemicals, and others. Doing so causes changes in shape and color of the cover.
- When the protective cover for oil is attached to the GOT, do not stretch and bend the cover too much. Doing so may cause a separation between the sheet and rubber.
- Do not place or use the protective cover for oil in direct sunshine. When the protective cover for oil gets dusty, wipe the dusts off with a damp cloth.
- White particles may adhere to the rubber frame of the protective cover for oil, which does not affect the quality of the cover. Wipe the frame with a cloth moistened with isopropyl alcohol or ethanol as necessary.
- When the protective cover for oil is used, the USB connector on the GOT front face cannot be used.
- When the protective cover for oil is used, the human sensor does not correctly operate. Disable the human sensor with the utility. For the human sensor setting, refer to the GOT2000 Series User's Manual (Hardware).
- Do not attach and remove the protective cover for oil frequently. Doing so reduces oil resistance and chemical resistance.
- Note that the structure does not guarantee protection in all users' environments. The protective cover for oil may not be used in an environment where it is exposed to oil or chemicals for a long time, or where oil mist fills the air.

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 or losses could occur if the product fails, install appropriate backup or failsafe functions in the system.

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