

MITSUBISHI ELECTRIC

GT05 Protective Cover for Oil

User's Manual

GT05-90PCO
GT05-80PCO
GT05-70PCO
GT05-60PCO
GT05-50PCO

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	GT05-PCO-U
MODEL CODE	1D7M71
IB(NA)-0800390-F(1806)MEE	

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

Before using this product, please read this manual and the relevant manuals introduced in this manual carefully and pay full attention to safety to handle the product correctly. The precautions given in this manual are concerned with this 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.

INSTALLATION 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. Undertightening can cause the GOT to drop, short circuit or malfunction. Overtightening can cause a drop, short circuit or malfunction due to the damage of the screws or the GOT.

DISPOSAL PRECAUTIONS

CAUTION

- Dispose of the product as industrial waste.

Manuals

The following manuals are related to this product.

Detailed Manual	
Manual name	Manual Number (Model code)
GOT2000 Series User's Manual (Hardware) (Sold separately)	SH-081194ENG (1D7MJ5)
GT16 User's Manual (Hardware) (Sold separately)	SH-080928ENG (1D7MD3)
GT15 User's Manual (Sold separately)	SH-080528ENG (1D7M23)
GT11 User's Manual (Sold separately)	JY997D17501G (09R815)

Relevant Manuals

For relevant manuals, refer to the PDF manuals stored in the GT Designer3 DVD-ROM.

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

Packing List

The following item is included.

Manual name	Item	Quantity
GT05-90PCO GT05-80PCO GT05-70PCO GT05-60PCO GT05-50PCO	Protective cover for oil	1
	USB connector protective sticker	1

1. Overview

This user's manual explains the GT05 protective cover for oil (hereinafter referred to as protective cover for oil). Use of the protective cover for oil improves oil resistance and chemical resistance of the GOT.*1

*1:It is not the one to guarantee all customer's environments. Moreover, it is not likely to be able to use it in the environment to which oil or the medicine splashes for a long time and the environment with which Oilmist is filled.

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

Model	Applicable GOT
GT05-90PCO	GT1695, GT1595
GT05-80PCO	GT1685, GT1585
GT05-70PCO	GT1675, GT1672, GT1575, GT1572
GT05-60PCO	GT1665, GT1662, GT1565, GT1562
GT05-50PCO	GT1555, GT1550, GT1155, GT1150

2. Specifications

2.1 Performance specifications

The performance specifications of the protective cover for oil are indicated below. The general specifications of the protective cover for oil are the same as those of the GOT. For the general specifications of the GOT, refer to GT16 User's Manual (Hardware), GT15 User's Manual or GT11 User's Manual.

Item	GT05-90PCO	GT05-80PCO	GT05-70PCO	GT05-60PCO	GT05-50PCO
Level of protection	IP67 Caution: Oil or the medicine might not be able to splash for a long time, and to use it in the environment with which Oilmist is filled.				
Material	Cover: Nitrile rubber, Display: PET sheet				
Weight	0.310kg	0.195kg	0.185kg	0.135kg	0.080kg

POINT

For installing the GOT with the protective cover for oil, the control panel thickness must be 2 to 3mm because of the cover thickness. (Control panel thickness without the cover: 2 to 4mm)

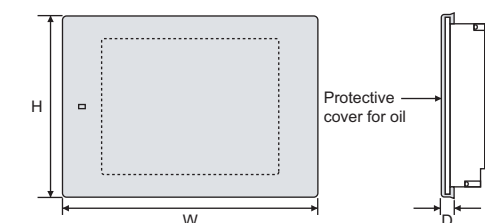
2.2 Oil resistance, chemical resistance

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



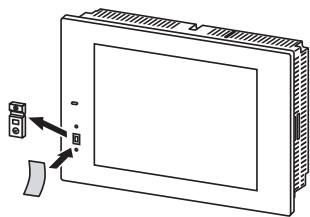
Dimensions	GT05-90PCO	GT05-80PCO	GT05-70PCO	GT05-60PCO	GT05-50PCO
W	408 (16.06)	327 (12.87)	314 (12.36)	252 (9.92)	178 (7.01)
H	307 (12.09)	253 (9.96)	228 (8.98)	201 (7.91)	146 (5.75)
D	12 (0.47)	12 (0.47)	12 (0.47)	12 (0.47)	12 (0.47)

Unit: mm (inch)

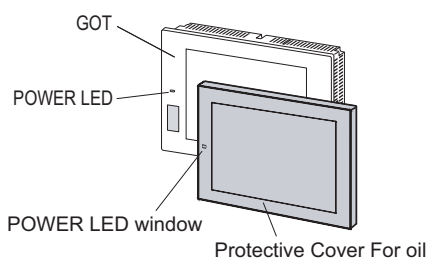
4. Installation Procedure

The following shows how to install the protective cover for oil on GT1575 as an example. To install the cover on GT16, the procedures (1) and (2) are not required.

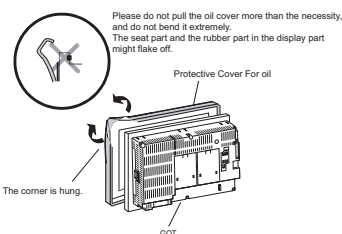
- When the USB environmental protection cover is installed on the GOT, remove the cover.
- After removing the cover, put the USB connector protective sticker on the USB connector.



- Position the POWER LED frame of the cover to the POWER LED on the GOT front face, and the direction of the cover is decided.

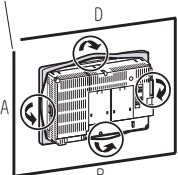


- One corner of the cover is pulled outside, and it hangs it on the corner of the front panel of GOT.



- The oil cover was hung and the edge of the oil cover is sequentially obtained and obtain the oil cover to cover rubber packing parts in the back of GOT of the front panel. (It is the order of the arrow from A side to D side.)

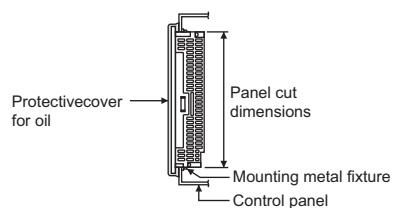
The corner on the left is hung and the oil cover is hung from A side to D side on the starting point sequentially.



POINT

- Please confirm all surroundings. Whether the rubber packing part is surely covered to prevent going into such as the liquids in the board.

- 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. Mount the GOT onto the control panel by referring to GT16 User's Manual (Hardware), GT15 User's manual or GT11 user's Manual.



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.

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 dusts, wipe the dusts off with a damp cloth.
- 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 GT15 User's Manual.
- Do not attach and remove the protective cover for oil frequently. Doing so reduces oil resistance and chemical resistance.
- It is not the one to guarantee all customer's environments. Moreover, it is not likely to be able to use it in the environment to which oil splashes for a long time and the environment with which Oilmist is filled.

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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