

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-H(2110)MEE				

© 2007 MITSUBISHI ELECTRIC CORPORATION

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

Indicates that incorrect handling may cause MARNING hazardous conditions, resulting in death or

Indicates that incorrect handling may cause A CAUTION hazardous conditions, resulting in medium or

slight personal injury or physical damage.

Note that the A 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		
r's Manual (Sold separately)	SH-081194ENG (1D7MJ5)	
(Hardware) (Sold separately)	SH-080928ENG (1D7MD3)	
(Sold separately)	SH-080528ENG (1D7M23)	
(Sold separately)	JY997D44801 (09R823)	
(Sold separately)	JY997D17501G (09R815)	
	r's Manual (Sold separately) (Hardware) (Sold separately) (Sold separately)	

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
GT05-80PCO GT05-70PCO GT05-60PCO	Protective cover for oil	1
	USB connector protective sticker	1
	GT05 Protective Cover for Oil User's Manual (This manual)	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: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 protective covers for oil and the applicable

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	GT2105, GT1555, GT1550, GT1455, GT1450, GT1155, GT1150

2. Specifications

2.1 General specifications

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

2.2 Performance specifications

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

Item	GT05- 90PCO	GT05- 80PCO	GT05- 70PCO	GT05- 60PCO	GT05- 50PCO
Level of protection	IP67 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	0.310kg	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)

2.3 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.

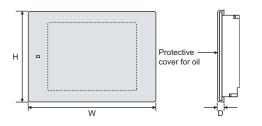
Prior to use the cover, test the cover in operating environments, and then check the oil and chemical resistance of the cover

● 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

Oil type	Product	Change in appearance and dimension	Adhesion between cover and sheet	Oil resistance
Water- insoluble cutting oil	Grinding oil (Yushiron oil CL35)	No change	No change	0
Water- soluble cutting oil	Grinding oil (Noritake cool CG-50P)	No change	No change	0

3. External Dimensions

checked.



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

4. Installation Procedure

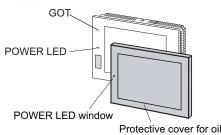
The following shows how to install the protective cover for oil on

GT1575 as an example.
To install the cover on GT21, GT16, or GT14, steps (1) and (2) are not required.

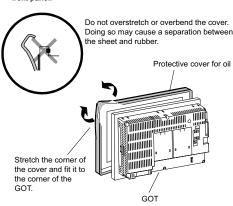
- (1) When the USB environmental protection cover is installed on the GOT, remove the cover
- (2) After removing the cover, put the USB connector protective sticker on the USB connector.



(3) 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

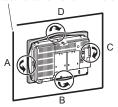


(4) Stretch one corner of the cover, and fit it to the corner of the GOT



(5) 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.

Starting from the upper left corner, fit the sides of the protective cover for oil in the order from A to D.



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

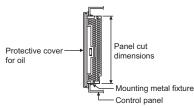




protective cover for oil align those of the GOT front panel.

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 For how to mount the GOT onto the control panel, refer to the

- →GOT2000 Series User's Manual (Hardware) GT16 User's Manual (Hardware)
- GT15 User's Manual
- GT14 User's Manual GT11 User's Manual



POINT

For attaching the protective cover for oil to the GOT already mounted on the control panel, perform the following steps.

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
- (2) 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.
- (3) 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.
- (4) 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
- (5) Do not place or use the protective cover for oil in direct sunshine.
- (6) When the protective cover for oil gets dusts, wipe the dusts off with a damp cloth.
- (7) White particles may adhere to the rubber frame of the protective cover for oil, which does not affect the quality of the Wipe the frame with a cloth moistened with isopropyl alcohol
- or ethanol as necessary. (8) 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.
- (10) Do not attach and remove the protective cover for oil frequently. Doing so reduces oil resistance and chemical resistance
- (11) Note that the structure does not guarantee protection in all users' environments. The protective cover for oil may not be 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
- 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.

Sales office/Tel

Mitsubishi Electric Automation, Inc. 500 Corporate Woods Parkway, Vernon Hills, IL 60061, U.S.A. Tel: +1-847-478-2100 USA

Brazil

Mitsubishi Electric do Brasil Comercio e Servicos Ltda. Avenida Adelino Cardana, 293, 21 andar, Bethaville, Barueri SP, Brazil Tel: +55-11-4689-3000

Mitsubishi Electric Automation, Inc. Mexico Branch Boulevard Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Amp Miguel Hidajo, Ciudad de Mexico, Mexico, C.P.11520 Tel: +52-55-3067-7512

Mitsubishi Electric Europe B.V. German Branch Mitsubishi-Electric-Platz 1, 40882 Ratingen, Germany Tel: +49-2102-486-0

Mitsubishi Electric Europe B.V. UK Branch Travellers Lane, UK-Hatfield, Hertfordshire, AL10 8XB, U.K. Tel: +44-1707-28-8780

20864 Agrate Brianza (MB), Italy Tel: +39-039-60531 Milsubishi Electric Europe B.V. Spanish Branch Carreltera de Rubi, 76-80-Apdo. 420, E-08190 Sant Cugat del Valles (Barcelona), Spain Tel: +34-935-65-3131

Mitsubishi Electric Europe B.V. French Branch 25, Boulevard des Bouvets, 92741 Nanterre Cedex, France Tel: +33-1-55-68-55-68

Mitsubishi Electric Europe B.V. Czech Branch Pekarska 621/7, 155 00 Praha 5, Czech Republic

Tel: +420-255 T19 200

Mitsubish IEectric Turkey A S. Umraniye Branch
Serfali Mahallesi Nutuk Sokak No.5, TR-34775 Umraniye / Istanbul, Turkey
Tel: +90-216-526-3990

Mitsubish IElectric Europe B.V. Pollish Branch
ul. Krakowska 48, 32-083 Balice, Poland
til: +484-123-476-500

Mitsubish IElectric (Russia) LLC St. Petersburg Branch
Piskaresky pr. 2, bid 2, il "Sch", BC "Benua", office 720; 195027 St. Petersburg, Russia
Tel: +78-12-633-3497

Adroit Technologies 20 Waterford Office Park, 189 Witkoppen Road, Fourways, South Africa Tel: +27-11-658-8100

Mitsubishi Electric Automation (China) Ltd.
Mitsubishi Electric Automation Center, No.1386 Hongqiao Road, Shanghai, China
Tel: +86-21-2322-3030

SETSIVO ENTERPRISE CO., LTD.
6F. No. 105. Wugu District, New Taipei City 24889, Taiwan
Tel: +888-2-2299-2499

Mitsubishi Electric Asia Pte. Ltd. 307 Alexandra Road, Mitsubishi Electric Building, Singapore 159943 Tel: +65-6473-2308

+45-46/3-2308 subishi Electric Factory Automation (Thailand) Co., Ltd. n Floor, SV.City Building, Office Tower 1, No. 896/19 and 20 Rama 3 Road, seng Bangpongpang, Khet Yannawa, Bangkok 10120, Thailand

PT. Mitsubishi Electric Indonesia Gedung Jaya 8th Floor, JL. MH. Thamrin No.12, Jakarta Pusat 10340, Indonesia Tel: +62-21 3192-6461 Indonesia

Mitsubishi Electric Vietnam Company Limited 11th & 12th Floor, Viettel Tower B, 285 Cach Mang Thang 8 Street, Ward 12, District 10, Ho Chi Minh City, Vietnam. Tel: +84-28-3910-5945

i et: +84-28-3910-5945 Mitsubishi Electric India Pvt. Ltd. Pune Branch Emerald House, EL-3, J Block, M.I.D.C., Bhosari, Pune - 411026, Maharashtra, India Tei: +91-20-2710-2000

rei. +91-20-2/10-2000 MITSUBISHI ELECTRIC AUSTRALIA PTY. LTD. 348 Victoria Road, P.O. Box 11, Rydalmere, N.S.W 2116, Australia Tel: +61-2-9684-7777

MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE : TOKYO BUILDING, 2-7-3 MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, NAGOYA WORKS : 1-14, YADA-MINAMI 5-CHOME, HIGASHI-KU, NAGOYA,

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

Specifications subject to change without notice. Printed in Japan, October 2021.