



GT10 Protective Cover for Oil

User's Manual



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| Manual Number | JY997D39601C |
| Date | April 2015 |

This manual describes the part names, installation, and specifications of the product. Before use, read this manual and manuals of relevant products fully to acquire proficiency in handling and operating the product. Make sure to learn all the product information, safety information, and precautions.

And, store this manual in a safe place so that you can take it out and read it whenever necessary. Always forward it to the end user.

Registration
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Effective April 2015
Specifications are subject to change without notice.

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Safety Precaution (Read these precautions before using.)

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**.

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|----------------|---|
| 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. |

Depending on circumstances, procedures indicated by **CAUTION** may also be linked to serious results.
In any case, it is important to follow the directions for usage.

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|---|----------------|
| MOUNTING PRECAUTIONS | WARNING |
| <ul style="list-style-type: none"> Be sure to shut off all phases of the external power supply used by the system before mounting or removing the GOT to/from the panel. Not doing so can cause the unit to fail or malfunction. | |

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|---|----------------|
| MOUNTING PRECAUTIONS | CAUTION |
| <ul style="list-style-type: none"> 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, and deteriorate the waterproof effect and oilproof effect. Overtightening can cause a drop, short circuit or malfunction due to the damage of the screws or the GOT, and deteriorate the waterproof effect and oilproof effect due to distortion of the protective cover for oil, GOT or panel. | |

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| DISPOSAL PRECAUTIONS | CAUTION |
| <ul style="list-style-type: none"> When disposing of the product, handle it as industrial waste. | |

Related Manuals

The following manuals are relevant to this product. When these loose manuals are required please consult with our local distributor.

| Manual name | Manual Number (Model Code) | Contents |
|--------------------|----------------------------|---|
| GT10 User's Manual | JY997D24701 (09R819) | Describes the GT10 hardware-relevant content such as part names, external dimensions, mounting, wiring, specifications, and introduction to option devices. (sold separately) |

Bundled Items

| Bundled item | Quantity |
|---|----------|
| GT10 protective cover for oil | 1 |
| GT10 Protective Cover for Oil User's Manual (This manual) | 1 |

1. Overview

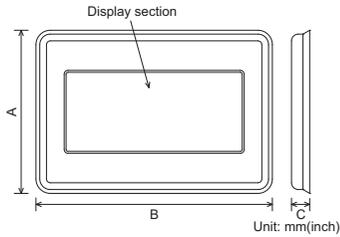
User of the GT10 protective cover for oil (hereinafter referred to as "protective cover for oil") improves oil performance, and chemical performance of the GOT.*1

*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 GOT models support the protective cover for oil.

| Model | GOT |
|------------|--|
| GT10-20PCO | GT1020-L□D(W), GT1020-L□D(W)2, GT1020-L□L(W) |
| GT10-30PCO | GT1030-L□D(W), GT1030-L□D(W)2, GT1030-L□L(W), GT1030-H□D(W), GT1030-H□D(W)2, GT1030-H□L(W) |
| GT10-40PCO | GT1045-QSBD, GT1040-QBBD |

2. Part Names and External Dimensions



| Model | A | B | C |
|------------|------------|------------|-----------|
| GT10-20PCO | 85(3.35") | 124(4.89") | 10(0.4") |
| GT10-30PCO | 87(3.43") | 156(6.15") | 10(0.4") |
| GT10-40PCO | 123(4.85") | 150(5.91") | 11(0.44") |

3. Specifications

3.1 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.*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 splashes for a long time and the environment with which Oilmist is filled.

For the general specifications of the GOT, refer to GT10 User's Manual.

| Item | GT10-20PCO | GT10-30PCO | GT10-40PCO |
|---------------------|--|------------|------------|
| 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 | 0.030kg | 0.040kg | 0.050kg |

CAUTION: For installing the GOT with the protective cover for oil, the control panel thickness must be 1 to 3mm because of the cover thickness. (Control panel thickness without the cover: 1 to 4mm)

3.2 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.

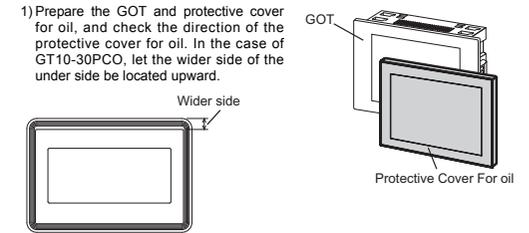
| Oil type | Product | Change in appearance and dimension | Adhesion between cover and sheet | Oil resistance |
|-----------------------------|-------------------------------------|------------------------------------|----------------------------------|----------------|
| Water-insoluble cutting oil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

4. Installation

4.1 Before attaching protective cover for oil

A protective film is attached on the display area when the GOT is shipped. Make sure to remove the protective film before attaching the protective cover for oil. For attaching the protective cover for oil to the GOT already mounted on the control panel, follow the procedures as below.

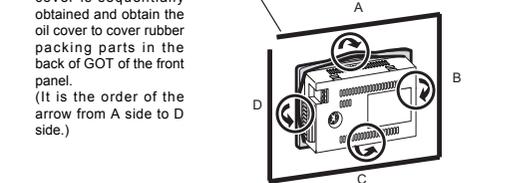
- Remove the GOT from the control panel. Make sure to externally shut off all phases of the power supply and remove all cables from the GOT in advance.
- Clean dirt off surfaces of the GOT and control panel.



- One corner of the cover is pulled outside, and it hangs it on the corner of the front panel of GOT. Please do not pull the oil cover more than the necessity, and do not bend it extremely. The seat part and the rubber part in the display part might flake off.

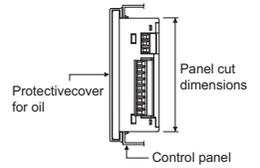


- The oil cover was hung and the edge of the oil cover is sequentially obtained and obtain the oil cover to cover rubber packing parts in the back of GOT of the front panel. (It is the order of the arrow from A side to D side.)



Please confirm all surroundings. Check whether the rubber packing is fitted correctly into the groove on the under side of the GOT front panel, and then whether the protective cover for oil securely covers the rubber packing part to prevent invasion of liquids into 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 GT10 User's Manual.



- Cautions on installation
Tighten the mounting screw with the specified torque.

| GOT | GT1020, GT1030, GT104□ |
|-------------------|------------------------|
| Tightening torque | 0.20 to 0.25 N·m |

Undertightening of mounting screws can cause a drop, and deteriorate the waterproof effect and oilproof effect. Overtightening of mounting screws can cause a drop due to damage of the GOT or mounting fixtures, and deteriorate the waterproof effect and oilproof effect.

5. Precautions for protective cover for oil

- The protective cover for oil is 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.
- Do not do a frequent detaching the protective cover for oil. It causes deterioration in the oil performance, and the medicine performance.
- 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.

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| For safe use |
| <ul style="list-style-type: none"> 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. |