GT25 Open Frame Model
General Description

Thank you for choosing Mitsubishi Electric Graphic Operation Terminal.

Warning:

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

1. FEATURES

- The GOT is different in its display and operability from conventional CRT terminals or CRT monitors.
- The GOT is designed to be easily used for both one-person and multiple-person operations.
- It has been designed to be easily used for programming or maintenance by both engineers and operators.
- It is equipped with functions for displaying process images and data, and for performing tasks such as programming.

2. PARTS NAMES AND SETTINGS

The following shows the parts names for GT2512F-S, GT2510F-V and GT2508F-V.

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Terminal (GOT)</td>
<td>...</td>
</tr>
<tr>
<td>2</td>
<td>Battery (GT11-50BAT) (Attached to the GOT)</td>
<td>...</td>
</tr>
<tr>
<td>3</td>
<td>Connector</td>
<td>...</td>
</tr>
</tbody>
</table>

3. SPECIFICATIONS

3.1 General Specifications

- Power supply voltage: Power supply voltage AC100 to 240VAC (+10%, -15%)
- Cooling method: Self-cooling
- Mounting location: Inside control panel
- Operating ambient temperature: 0 to 50°C
- Humidity: 10 to 90% RH, non-condensing
- Vibration resistance: 8.4Hz - 3.5mm 10 times
- Shock resistance: 150Hz 4.9m/s² - 8.4 to 5.0m/s² 5 times

3.2 Power Supply Specifications

The following indicates the power supply specifications for GT25.

<table>
<thead>
<tr>
<th>Condition</th>
<th>AC Supply Voltage</th>
<th>Power Consumption</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal</td>
<td>AC100 to 240VAC (+10%, -15%)</td>
<td>34W or less</td>
<td>218 x 178 x 37 mm</td>
<td>0.5 kg</td>
</tr>
<tr>
<td>Low AC100V, 200V</td>
<td>23W or less</td>
<td>249 x 195 x 37 mm</td>
<td>0.9 kg</td>
<td></td>
</tr>
<tr>
<td>Low 200V, 240V</td>
<td>25W or less</td>
<td>249 x 195 x 37 mm</td>
<td>0.9 kg</td>
<td></td>
</tr>
</tbody>
</table>

4. INSTALLATION AND MAINTENANCE PRECAUTIONS

4.1 INSTALLATION PRECAUTIONS

- Place the GOT in a suitable location, and secure it in place with screws, etc.
- Leave a space of at least 100 mm around the GOT for ventilation and maintenance.
- Ensure that the GOT is securely mounted to prevent it from falling during operation.

4.2 MAINTENANCE PRECAUTIONS

- Before removing the data storage from the GOT, check the SD card access LED, system signal, or others to make sure that the data storage is not in use.
- Do not turn off the GOT while data is being written to the storage memory.

5. CAUTION

- Do not, under any circumstances, cause an electric shock to the system incorporating the GOT.
- Do not, under any circumstances, cause a short circuit or malfunction due to incorrect installation.

6. WARNING

- Improper installation or use may cause fire, electric shock, or other accidents.
- Before performing maintenance or alteration on the GOT, be sure to turn off the power supply and unplug the GOT from the power outlet.

7. LED OPERATION:

- The GOT is equipped with an LED for each function, allowing easy and quick confirmation of operation.

8. TROUBLESHOOTING:

- In the event of a problem with the GOT, consult the Mitsubishi Electric service center or an authorized service representative.

9. TECHNICAL SUPPORT:

- Mitsubishi Electric provides technical support for the GOT through its service centers and authorized service representatives.

10. ACCESSORIES:

- The GOT comes with the following accessories:
  - Battery (GT11-50BAT)
  - Connector

11. EXTERNAL DIMENSIONS:

<table>
<thead>
<tr>
<th>Type</th>
<th>Terminal (GOT)</th>
<th>Battery (GT11-50BAT)</th>
<th>Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>GT25F-U-GD-E</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>GT2512F-STND</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>GT2510F-VTND</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>GT2508F-VTND</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
</tbody>
</table>

12. PRODUCT DESCRIPTION:

- The GOT is a compact, lightweight, and easy-to-use terminal designed for use in a variety of industries and applications.

13. CONCLUSION:

- Mitsubishi Electric is committed to providing high-quality products and services to its customers.
- We thank you for choosing the GOT, and hope that it will meet your needs and expectations.

14. DISPOSAL PRECAUTIONS

- The GOT contains electronic components that may be harmful to the environment.
- Dispose of the GOT in accordance with local regulations and guidelines.

15. TRANSPORTATION PRECAUTIONS

- When transporting the GOT, use appropriate packaging to prevent damage.

16. NOTICE:

- This manual is for reference only, and should not be used as a sole source of information.

17. APPENDIX:

- For additional information, refer to the enclosed manuals and other Mitsubishi Electric documentation.

18. INDEX:

- A comprehensive index is provided to assist with quick reference to specific information.

19. CONTACT INFORMATION:

- For further information or support, please contact Mitsubishi Electric directly.

20. NOT FOR SALE:

- This manual is not for sale, and should not be reproduced or distributed without permission.

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22. NOTICE:

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Reference Standard: GB/T11569.2 (Revised as of Chinese (Mandarin) text)

Related Standard: GB/T36670.2 (Revised as of Chinese (Mandarin) text)

Related Standard: IEC61131-2 (Revised as of Chinese (Mandarin) text)

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23. DISCLAIMER:

- The information contained in this manual is provided "as is" and without warranty of any kind.
- Mitsubishi Electric is not responsible for any errors or omissions in this manual.

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24. LEGAL DISCLAIMER:

- Mitsubishi Electric disclaims any liability for any direct or indirect damages resulting from the use of this manual.

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25. COPYRIGHT INFORMATION:

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26. FINISH:

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4. EM AND LOW VOLTAGE DIRECTIVE

The fittings must be installed on the top and bottom, or the right and left of the GOT. The above test items are conducted in the condition where the GOT is installed within the control panel. The standard value is 114.5 (4.51) ± 0.15 (0.006) mm in the unit (mm). The dimensions of the GOT are shown below. 

4.1 Control panel

The GOT must be installed on the control panel inside the cabinet. When installing the GOT vertically, the control panel inside the cabinet must be small as possible. Make sure the necessary line of sight can be ensured by the GOT. Horizontal installation is recommended. However, if the control panel is too long, the GOT may become a more efficient antenna at high frequency. The noise, the wire itself carries a large noise content and thus shorting as possible must be ensured. As the wires are used to relieve the FG terminals of the GOT (LG: line ground, FG: frame ground) the wire may not need to be twisted. Note) A long conductor will become a more efficient antenna at high frequency.

4.1.2 Stud specifications

The tightening torque of the washers and nuts is 0.8 N•m to 0.9 N•m with a tightening torque of 0.9 N•m or more. The stud specifications are as follows:

<table>
<thead>
<tr>
<th>Type</th>
<th>Thread Pitch</th>
<th>Length</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>M8</td>
<td>1.25</td>
<td>35</td>
<td>8</td>
</tr>
<tr>
<td>M8</td>
<td>1.25</td>
<td>58</td>
<td>8</td>
</tr>
</tbody>
</table>

4.2 Power supply

The installation specifications of the GOT are described in the following sections. The installation category indicates the level of adverse influence of surge generated by lightning. Category I has the lowest durability, category II has the highest durability.

4.2.1 Single phase power supply

The single phase power supply is as follows:

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Voltage</th>
<th>Power Factor</th>
<th>Phase Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>G100</td>
<td>98 (3.86)</td>
<td>±0.15 (0.006)</td>
<td>0.15 (0.006)</td>
</tr>
<tr>
<td>G114</td>
<td>114 (4.51)</td>
<td>±0.15 (0.006)</td>
<td>0.15 (0.006)</td>
</tr>
</tbody>
</table>

4.2.2 Power supply

If the installation specifications of the GOT are not met, be sure to use the installation category’s power supply for the GOT.

4.2.3 Control panel

The installation category indicates the level of adverse influence of surge generated by lightning. Category I has the lowest durability, category II has the highest durability.

5. INSTALLATION

5.1 Control Panel Inside Dimensions for Mounting GOT

Install the GOT on the control panel out of the way for the equipment inside the control panel. Do not install the GOT and unit in prohibited areas for the installation.

5.2 Panel Cutting Dimensions

Open an installation hole on the control panel with the dimensions as shown below. Important dimensions to note include: dimensions 1 (horizontal) and 2 (vertical).

5.3 Stud

5.3.1 Stud Specifications

Use the studs that satisfy the following specifications:

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Length</th>
<th>Pitch</th>
</tr>
</thead>
<tbody>
<tr>
<td>M8</td>
<td>35</td>
<td>1.25</td>
</tr>
<tr>
<td>M8</td>
<td>58</td>
<td>1.25</td>
</tr>
</tbody>
</table>

5.4 Mounting Position

When installing the GOT, the following cleardances must be maintained from other equipment and devices. Otherwise, there may be a risk of electric shock:

<table>
<thead>
<tr>
<th>Model</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>G100</td>
<td>98 (3.86)</td>
</tr>
<tr>
<td>G114</td>
<td>114 (4.51)</td>
</tr>
</tbody>
</table>

5.5 Control Panel Inside Temperature and Installation Angle

When installing the GOT to a panel, set the display section as shown below using the GOT with the installation angle other than the following cleardances when the GOT is installed:

<table>
<thead>
<tr>
<th>Model</th>
<th>Temperature</th>
<th>Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>G100</td>
<td>98 (3.86)</td>
<td>±10°</td>
</tr>
<tr>
<td>G114</td>
<td>114 (4.51)</td>
<td>±10°</td>
</tr>
</tbody>
</table>

6. INSTALLING THE GOT

To be able to mount the GOT, the panel must be cut on the back of the panel. The GOT can be mounted on the panel inside the cabinet with the following procedures:

1) Install the supplied fittings on the GOT with screws.
2) Install the GOT to the panel, using the bolts and the nuts.
3) Check the GOT to ensure that the GOT is mounted correctly and securely.
Installation du GOT à l'horizontale

Pour l'installation à la verticale, installez le GOT de sorte que la flèche imprimée sur la face arrière du GOT pointe vers le haut.

5.2 Côtés de découpe du panneau
Gardez un orifice d'installation sur le tableau de commande avec les côtés indiqués à l'horizontale.

5.3 Goujons

5.3.1 Spécifications des goujons

Les goujons sont installés de manière à être en contact avec l'interférence de la commande. Assurez-vous que l'interférence de la commande et du système de commande sont dans le cadre de ceux détaillés dans le tableau suivant.

5.4 Position de montage

Les raccords doivent être installés au-dessus et en dessous, ou à droite de l'écran.

5.5 Température intérieure et angle d'installation du tableau de commande

Il est recommandé de ne pas oter le couvercle de la batterie pour l'installation à l'horizontale. Les raccords doivent être installés au-dessus et en dessous, ou à droite et à gauche de l'écran. Lors de l'installation à l'horizontale, installez le GOT de sorte que la flèche imprimée sur la face arrière du GOT pointe vers le haut.

5.6 Installation du GOT

Pour serrer les écrous, utilisez une clé à molette M4.

6. MAINTENANCE AND INSPECTION

Reportez-vous au manuel Service & Sécurité électronique pour la maintenance et inspection du GOT.