Precautions Regarding Safety
(Always read carefully before using your equipment)

When using this product, please read the manuals that are supplied with all of the products, as well as any related manuals available as supplementary manuals. Make sure you understand the installation, operation, and handling of the equipment completely.

These precautions only apply to this product. For information regarding safety information for the PC system and Graphics Operation Terminal, please refer to the user's manual for each module.

In this manual, safety precautions concerning more hazardous items are labeled "DANGER," and those concerning more general safety issues are labeled "CAUTION."

DANGER: Improper handling could cause hazardous conditions resulting in severe injury or death.

CAUTION: Improper handling could cause hazardous conditions resulting in moderate or slight injury, or in physical damage.

The items marked with an exclamation point in a triangle symbol could also cause severe consequences, depending on the circumstances. If not handled properly, they could cause serious and/or observed consequences.

Manuals are available with the module kit and instruction manual where they can be accessed when necessary, and should always be passed on to the end user along with the equipment.

1. Introduction

This manual explains how to handle the MELSERI-94EU Serial Communication Module EMC specification compatible product (hereafter Serial Communication Module).

The Serial Communication Module is an EMC specification compatible product and is the communication module that is required to monitor the following lists A668GT-G901 and A687-70987 that are directly connected to the CPU.

A668GT-G901-EU A687-70987-EU
A668GT-G901-SW-EU A687-70987-SW-EU
A668GT-G901-HB-EU A687-70987-HB-EU
(hereafter abbreviated as GOT)

Related Manuals

The following manuals are available for this product. Refer to the table below to choose suitable manuals.

<table>
<thead>
<tr>
<th>Manual Name</th>
<th>Manual No.</th>
<th>Type Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model A668GT-G901 Graphic Operation Terminal EMC specification compatible product</td>
<td>IS-09199</td>
<td>(13.366)</td>
</tr>
<tr>
<td>Model A668GT-G901 User's Manual</td>
<td>IS-09017</td>
<td>(13.353)</td>
</tr>
<tr>
<td>Model A668GT-G901 EMC Box</td>
<td>IS-09033</td>
<td>(13.365)</td>
</tr>
</tbody>
</table>

2. Specifications

The following items should be checked before using the Serial Communication Module.

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of connection</td>
<td>For CPU direct connection</td>
</tr>
<tr>
<td>Current consumption (U/W)</td>
<td>(0/51) (10)</td>
</tr>
<tr>
<td>Weight</td>
<td>500g (0.44 lb)</td>
</tr>
</tbody>
</table>

3. Connection Cable

The EMC specification compatible RS-422 connection cables are shown below:

- Model A668GT-G901-EU RS-422 cable (3 m / 118.1 inch)
- Model A668GT-G901-SW-EU RS-422 cable (5 m / 164.1 inch)
- Model A668GT-G901-HB-EU RS-422 cable (5 m / 164.1 inch)

4. Handling and Installation Method

(1) Handling

- Use the module in the general specification environment prescribed in the GOT User's Manual.
- If this module is used outside the general specification environment, such as electric shock, fire, malfunction or damage to the product could result.
- Turn the power off when removing a unit. To prevent removing the unit while the power is on, damage or unit could result in erroneous operation.
- Do not touch the communication cables with the main circuit or power wires, or install them close to each other. They must be installed 100 mm (3.94 inch) or more from each other. Non-conductive results in noise that could cause erroneous operation.
- Follow the guide when installing the screws in the GOT installation area and conduct the installation using the module fixing screws. If the module is not correctly installed, malfunction or trouble could result or the module could fall off.
- If it is necessary to verify the state of the unit before connecting cable. Do not connect cable to incorrect unit. Doing so could cause damage.
- Take precautions so that debris, such as sawdust or wiring debris, does not get inside the unit. If such debris does get inside it could cause fire, trouble, or malfunction.
- Do not dismantle or modify the module. Doing so could cause trouble, malfunction, injury, or fire.
- Do not directly touch the module's conductive parts or electronic components. Touching could cause malfunction or trouble in the module.
- Do not install the product. Do not remove the module from the circuit board. Doing so could cause damage.
- Do not install the product. Do not remove the module from the circuit board. Doing so could cause damage.

(2) Installation Method

- Before removing the Serial Communication Module, do so in reverse of the procedure shown above.

When removing the Serial Communication Module, do so in reverse of the procedure shown above.
6. Connection cable ground

To prevent radiated noise from the connection cable (Model ABGT-PS4-LE/ RS-422 cable) between the Serial Communication Module and the PC CPU, the grounds must be connected to the QOT and PC CPU control panels.

The connection cable grounding procedure is shown below.

1. Peel off the white areas (2 areas) of the connection cable (Model ABGT-PS4-LE/RS-422 cable) covering to expose approximately 40 mm (1.57 in) of the shield mesh.

2. Choose the respective cable clamps for the control panel in which the QOT is installed and the control panel in which the PC CPU is installed and ground the connection cable.

* The cable clamp used by Mitsubishi Electric for the EMC specification compatibility test is shown below.
  - Mitsubishi Electric Model AD750K cable clamp