**MITSUBISHI**

**A9GT-50PRF Type**

Printer interface module

**User’s Manual**

Thank you for purchasing the MELSEC-GOT Series.

To ensure correct use of this equipment, please carefully read this manual prior to use.

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**SAFETY PRECAUTIONS**

(Read these precautions prior to use.)

When using Mitsubishi equipment, thoroughly read this manual and the associated manuals that are introduced in this manual. Also, pay careful attention to safety and handle the module properly.

These precautions apply only to Mitsubishi equipment. Please refer to the relevant user’s manuals for safety precautions pertaining to Mitsubishi programmable controller systems and Graphics Operation Terminal (abbreviated as GOT, hereafter). The SAFETY PRECAUTIONS in this manual are classified into two categories: **DANGER** and **CAUTION**.

**DANGER**: Procedures which may lead to a dangerous condition and cause death or serious personal injury if not observed as directed.

**CAUTION**: Procedures which may lead to a dangerous condition and cause minor to medium personal injury or damage only to property, if not observed as directed.

Depending on circumstances, procedures indicated with **CAUTION** could also lead to serious results.

In any case, it is important to strictly observe the directions indicated with the above signs.

Keep this manual in a place which allows you to easily reach it whenever necessary. Please make sure that the end user of this equipment be provided with this manual.

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**[DESIGN PRECAUTIONS]**

**DANGER**

- Some failures of the GOT main unit, this module, or cable may keep the outputs on or off. An external monitoring circuit should be provided to check for output signals which may lead to a serious accident.
  - Not doing so can cause an accident due to false output or malfunction.

**INSTALLATION PRECAUTIONS**

**DANGER**

- Always turn the GOT power OFF before mounting this module onto the GOT main unit.
  - Not doing so can cause a module failure or malfunction.
- Always turn the GOT power OFF before connecting the connection cable to this module.
  - Not doing so can cause a module failure or malfunction.

**CAUTION**

- Use this module in the environment given in the general specifications of the GOT User’s Manual.
  - Not doing so can cause an electric shock, fire, malfunction or product damage or deterioration.
- When installing this unit to the GOT, fit it to the connection interface of the GOT and tighten the mounting screws in the specified torque range. Undertightening can cause a drop, failure or malfunction due to GOT or screw damage.

**STARTUP AND MAINTENANCE PRECAUTIONS**

**CAUTION**

- Do not disassemble or modify this module. This will cause failure, malfunction, injuries, or fire.
- Do not hold the cable part when unplugging any cable connected to the module. Doing so can cause module or cable damage or a malfunction due to a cable contact fault.
- Always make sure to touch the grounded metal to discharge the electricity charged in the body, etc., before touching the module. Failure to do so may cause a failure or malfunctions of the module.

**DISPOSAL PRECAUTIONS**

**CAUTION**

- When disposing, treat this product as industrial waste.

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### 1. OVERVIEW

This user’s manual explains the A9GT-50PRF type printer Interface module (referred to as the A9GT-50PRF).

A9GT-50PRF is connected to the A950GOT/A951GOT/A953GOT/A956GOT (referred to as the GOT), and is used when printing data such as the alarm history function.

Refer to the [Drawing software help functions] for details on the alarm history function, etc.

When using this unit, version H or higher of the SW1D5C-GOTRE-PACK is required.

After opening the container, check that the following products are present.

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>A9GT-50PRF</td>
<td>1</td>
</tr>
</tbody>
</table>

---

### 2. PERFORMANCE

#### 2.1 Performance specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interface</td>
<td>Parallel interface, 1channel</td>
</tr>
<tr>
<td>24VDC Current consumption [A]</td>
<td>0.15</td>
</tr>
<tr>
<td>Printer cable</td>
<td>AC30P10-20P (cable length 3m)</td>
</tr>
<tr>
<td>Weight [g] (lb)</td>
<td>250 (0.55)</td>
</tr>
</tbody>
</table>

#### 2.2 Parallel interface specifications

When fabricating the printer cable on the user side conform to the following specifications.

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compliant standard</td>
<td>Centronics (See below for the data and control signal timing)</td>
</tr>
<tr>
<td>Signal level input</td>
<td>V1H=2.5V, V1L=0.8V</td>
</tr>
<tr>
<td>Signal level output</td>
<td>V0H=2.4V, V0L=0.5V</td>
</tr>
<tr>
<td>Max. cable length</td>
<td>Within 3m or within the specifications of the printer used</td>
</tr>
</tbody>
</table>
3. INSTALLATION PROCEDURE

1) The A9GT-50PRF is installed onto the option unit installation holes of the GOT with the A9GT-50PRF installation screws. When using a communication unit with the A958GOT or when the A9GT-50PRF is not to be mounted on the back of the GOT, install the A9GT-50PRF on the control panel. Refer to the [A950GOT/A951GOT/A953GOT/A956GOT User's Manual] for details on installing onto the control panel.

2) Tighten the installations screws within the range of specified torque 36 to 48Ncm (3.7 to 4.9kgf cm) (3.2 to 4.2 lbf inch)

3) Mount the GOT side connection connector to the option module interface on the lower side of the GOT.

4) Connect the A9GT-50PRF and printer with the connection cable. Refer to the [GOT-A900 Series User’s manual (Connection System Manual)] for the usable printers.

To remove the unit, reverse the installation procedure.

* If the printer malfunctions (characters are unrecognizable, or characters are skipped, etc.), because of noise, etc., the user should make an FG wire, and ground to the A9GT-50PRF FG terminal block. The methods for making the FG wire are shown below.

A9GT-50PRF side

Crimp terminal (M4) FG wire (swirled wire equivalent to UL1015 AWG14)

3M make

Wiring diagram

Timing chart

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GOT connector</td>
<td>:10220-50AUL</td>
</tr>
<tr>
<td>Cable connector (insulation displacement type connector)</td>
<td>:10120-600DE</td>
</tr>
<tr>
<td>Cable connector cover</td>
<td>:10320-3210-000</td>
</tr>
</tbody>
</table>

3.2

Specifications subject to change without notice.

Printed in Japan on recycled paper.