

mitsubishi

A8GT-RS4-EUN

Serial communication module

Mitsubishi Graphics Operation Terminal User's Manual

Thank you for choosing the Mitsubishi General Purpose PC MELSEC-GOT series. To ensure correct use of this equipment, please read this manual carefully before operating it.



Model Name	A8GT-RS4-EUN-U-E
Model Name Code	13JL11

●SAFETY PRECAUTIONS●

(Read these precautions before using.)

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

These precautions apply only to Mitsubishi equipment. Refer to the CPU module user's manual for a description of the PC system safety precautions.


These ●SAFETY PRECAUTIONS● classify the safety precautions into two categories: "DANGER" and "CAUTION"

DANGER

Procedures which may lead to a dangerous condition and cause death or serious injury if not carried out properly.

CAUTION

Procedures which may lead to a dangerous condition and cause superficial to medium injury, or physical damage only, if not carried out properly.

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.

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.

[DESIGN PRECAUTIONS]

CAUTION

- Do not bunch the control wires or communication cables with the main circuit or power wires, or install them close to each other. They should be installed 100 mm (3.9 inch) or more from each other. Failure to do so may result in noise that would cause malfunctioning.

[INSTALLATION PRECAUTIONS]

DANGER

- When installing and removing this module from the GOT main module be sure to shut off the power at all external switches. If all the switches are not turned off the module could be damaged or malfunction.
- When connecting the communication cable to this module be sure to turn off the switch to all external power switches to the GOT and PC CPU. If all the switches are not turned off the modules could be damaged or malfunction.

CAUTION

- Use this module in an environment that is within the general specifications written in the GOT User's Manual. If the power supply is used in an environment that is outside of the general specifications then electric shock, fire, malfunction, or product damage or degradation could occur.
- Securely connect the communication cable to the communication module, the PC CPU side connector, and the terminal block. A bad connection could cause erroneous input or output.
- When installing this module in the GOT main module, install it in the GOT installation area and be sure it is fastened with a module fastening screw that is tightened within the torque tightening range.
If the module fixing screws are loose, it may cause malfunction, damage or falling of the module.
If the module fixing screws are too tight the GOT, the GOT main module or the screws could break.

[STARTING AND MAINTENANCE PRECAUTIONS]

DANGER

- Switch all phases of the GOT external power supply off before cleaning. Not doing so could result in electric shock.

CAUTION

- Never disassemble or modify this module. This may cause breakdowns, malfunctioning, injury, and/or fire.
- Do not directly touch the conducted area and electric parts of this module. It may cause damage and malfunctioning of the module.
- This module is made of resinous materials, and should be protected from strong shock or impact. It may cause breakdown.

[DISPOSAL PRECAUTIONS]

CAUTION

- When disposing of this product, treat it as industrial waste.

Revisions

* The manual number is noted at the lower left of the back cover.

Print Date	*Manual Number	Revision
Mar. 1997	IB (NA)-66764-A	First printing

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Table of Contents

1	Introduction	1
2	Components Including in the Packaging	2
3	Specifications	2
4	Connection Cable	2
5	Installation Method	3
6	Connection Cable Ground	4
7	External Dimensions	6

About This Manual

The following product manuals are available. Please use this table as a reference to request the appropriate manual as necessary.

Related Manual

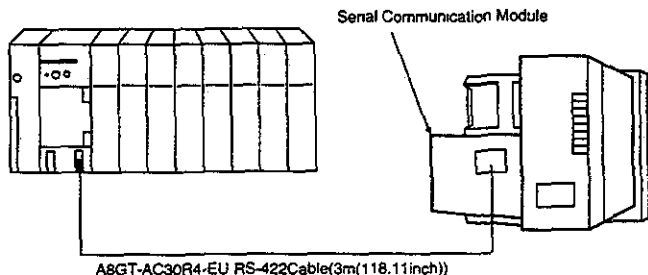
Manual Name	Manual No. (Type Code)
Model A870GOT (N) Graphic Operation Terminal EMC Specification Compatible Product Addition Instruction Manual (Packaged with the A870GOTEMC specification compatible product)	IB-66759 (13JL06)
Model A870GOT Graphic Operation Terminal User's Manual (Packaged with the A870GOT (N) EMC specification compatible product)	IB-66626 (13J830)

1 Introduction

This manual explains how to handle the model A8GT-RS4-EUN Senal Commu-
nication Module EMC specification compatible product (hereafter Senal Commu-
nication Module).

The Senal Communication Module is an EMC specification compatible product
and is the communication module that is required to monitor the following listed
A870GOT that are directly connected to the CPU.

A8GT-70GOT-EW-EUN A8GT-70GOT-EB-EUN
A8GT-70GOT-SW-EUN A8GT-70GOT-SB-EUN
(Hereafter abbreviated as GOT.)



Point

If a system is configured differently from that described in this manual it will not comply with EMC specifications, so be sure to follow the instructions given in this manual and configure the system using the EMC Box and other MELSEC-GOT series components.

The instructions in this manual do not guarantee that all of the equipment configured with MELSEC-GOT series components, including other electrical components, will comply with EMC specifications.

To check if all the equipment complies with EMC specifications, consult with the manufacturers who produced the equipment.

2 Components Including in the Packaging

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

Product Name	Quantity
Bus connection module main module	1
Installation screws	3
This manual	1

3 Specifications

Item	Specifications
Type of connection	For CPU direct connection
Power consumption (DC 5V)	70.mA (TYP)
Weight	300 g (0.66 lb)

4 Connection Cable

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

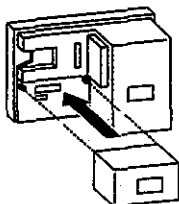
EMC specification compatible RS-422 cable.

Model A8GT-AC30R4-EU RS-422 cable (3 m (118.11 inch))

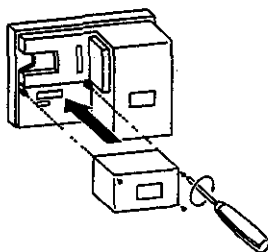
5 Installation Method

The procedures for installation to and removal from the GOT are shown below.

- ① Insert the Serial Communication Module into the GOT installation area.



- ② Correctly install the module by tightening the module fixing screws (3 screws within the tightening torque range (36 to 48 N • cm (3.7 to 4.9 kg • cm))).



When removing the Serial Communication Module do so in reverse of the procedure shown above.

6 Connection Cable Ground

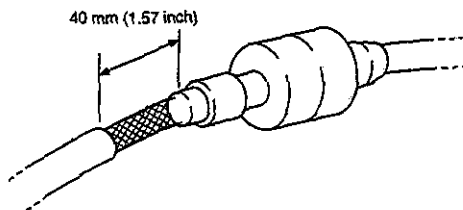
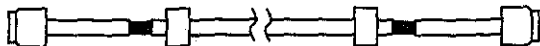
To prevent radiated noise from the connection cable (Model A8GT-RS4-EU RS-422 cable) between the Serial Communication Module and the PC CPU, the grounds must be connected to the GOT and PC CPU control panels.

The connection cable grounding procedure is shown below.

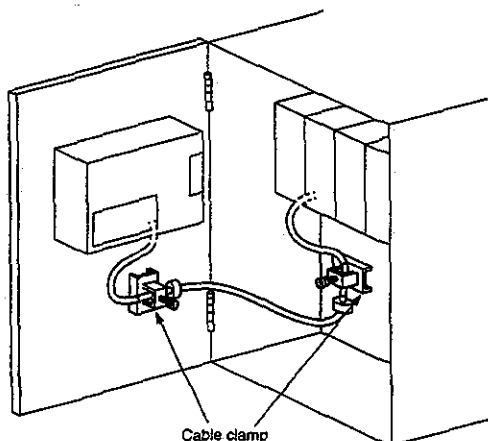
When grounding the connection cable to the control panel a cable clamp is required so obtain it separately.

- ① Peel off the white areas (2 areas) of the connection cable (Model A8GT-RS4-EU RS-422 cable) covering to expose approximately 40 mm (1.57 inch) of the shield mesh.

Be sure not to scratch the peeled mesh.

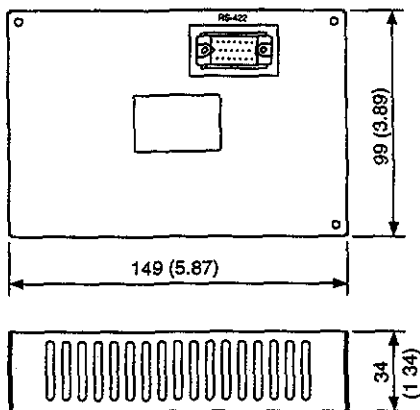


- ② Choose the respective cable clamps for the control panel in which the GOT is installed and the control panel in which the PC CPU is installed and ground the connection cable.



- * The cable clamp used by Mitsubishi Electric for the EMC specification compatibility test is shown below.
Mitsubishi Electric Model AD75CK cable clamp

7 External Dimensions



Unit: mm (inch)

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Canada	Mitsubishi Electric Sales Canada, Inc., (Industrial Automation Division) 4299 14th Avenue, Markham, Ontario L3R 0J2 Phone : (416) 475-7728
United Kingdom	Mitsubishi Electric UK Ltd., (Industrial Sales Division) Travellers Lane, Hatfield, Herts., AL10 8XB Phone : (0707) 276100
Germany	Mitsubishi Electric Europe GmbH, (Industrial Automation Division) Gothaer Strasse 8, Postfach 1548, D-4030 Ratingen 1 Phone : (02102) 4860
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