

MITSUBISHI

A7GT-BUS2-EUN

Bus connection interface module

Mitsubishi Graphics Operation Terminal User's Manual

Thank you for choosing the Mitsubishi Graphic Operation Terminal 800 series for general purpose PC. To ensure correct use of this equipment, please read this manual carefully before operating it.



Model Name	A7GT-BUS2-EUN-U-E
Model Name Code	13JL10

IB-NA-66763-A (9703) MEE

●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 bus connection 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 bus connection 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 install the bus connection cable to the this module and the base module connector. After installation check that it has not become loose. A bad connection could cause erroneous input and output
- When installing a 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 loosen, 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

- Do not change the switch settings while the power is turned on. Doing so could cause trouble or malfunctions.
- 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.

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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

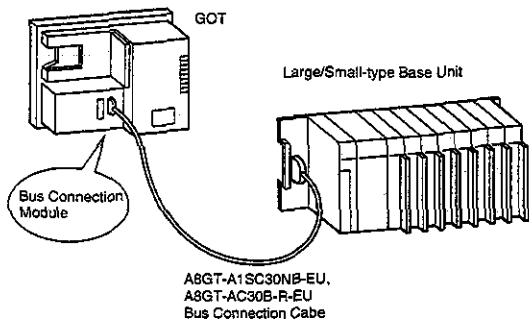
Manual Name	Manual No. (Type Code)
Model A870GOT (N) Graphic Operation Terminal EMC Specification Compatible Product Addition Instruction Manual (Packaged with the A870GOTEMC specification compatible product)	IB-66759 (13JL06)
Model A870GOT Graphic Operation Terminal User's Manual (Packaged with the A870GOT (N) EMC specification compatible product)	IB-66628 (13J830)

1 Introduction

This manual explains the handling of the model A7GT-BUS2-EUN Bus Connection Module EMC specification compatible products (hereafter Bus Connection Module).

The Bus Connection Module is an EMC specification compatible product and is the communication module required when monitoring the below listed A870GOT that are connected to the bus. Only one GOT base can be connected to the bus and used in this module. Because multiple bases cannot be used in the GOT be cautious in regards to this point.

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	330 g (0.73 lb)

4 Connection Cable

The EMC specification compatible bus connection cable is shown below.

EMC specification compatible bus connection cable

Model ABGT-AC30B-R-EU bus connection cable (3 m (118.11 inch))

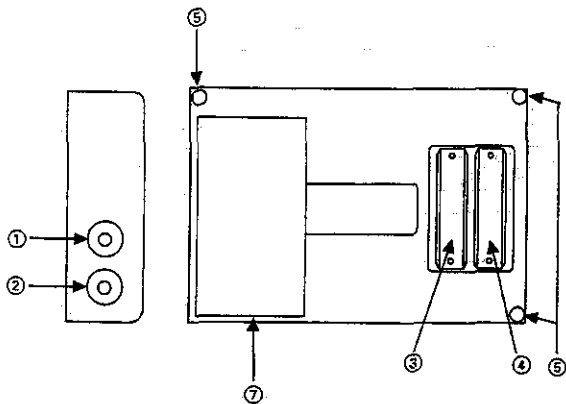
Model ABGT-A1SC30NB-EU bus connection cable (3 m (118.11 inch))

The base module that can be connected is the small base module.

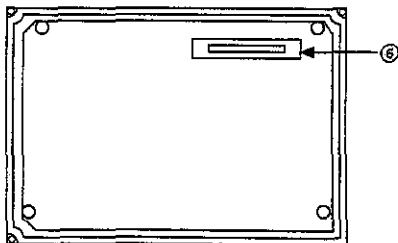
5 Component Names and Settings

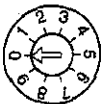
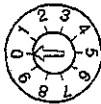
Side view

Front view



Back view



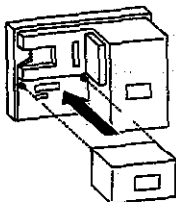
No.	Name	Description
1	Module setting switch 	Sets the number of extensions that can be allotted for the GOT. (Setting at time of shipment: 0) Setting range 1 to 7: Number of extensions 8, 9, 0: Usage prohibited
2	I/O slot setting switch 	Sets the I/O slot Nos. allocated for the GOT (Setting at time of shipment: 0) Setting range 0 to 7: I/O slot No. 8, 9: Usage prohibited
3	Extension cable connection interface	Main base and extension base module connection interface
4	Usage prohibited	Usage prohibited
5	Module fixing screw	Fixing screw for installing in the GOT
6	Connector	Connector for connecting to the GOT
7	Rated plate	—

* For information regarding the module setting switch and I/O slot setting switch refer to the GOT User's Manual.

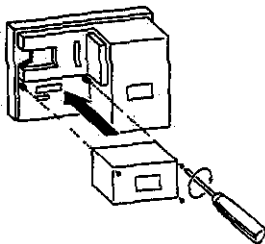
6 Installation Method

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

- ① Insert the Bus Connection 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.m (3.7 to 4.9 kg.m)).



When removing the Bus Connection Module do so in reverse of the procedure shown above.

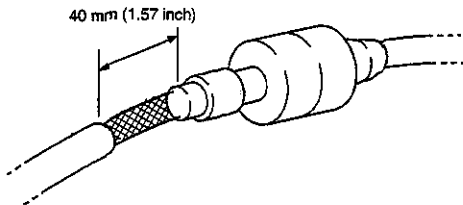
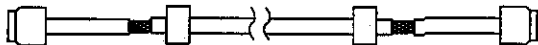
7 Connection Cable Ground

To prevent radiated noise from the connection cable (Model A8GT-AC30B-R-EU, Model A8GT- A1SC30NB-EU) between the Bus Connection Module and the base unit, the grounds must be connected to the GOT and the base unit control panels.

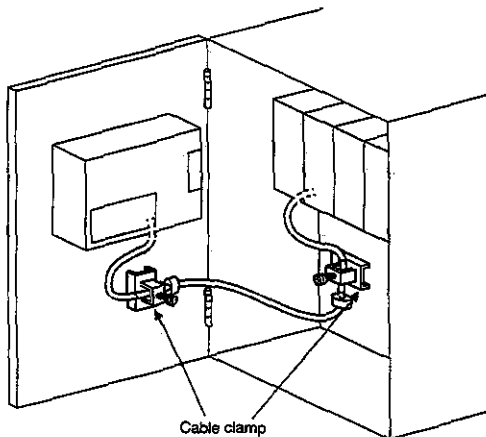
The connection cable grounding procedure is shown below.

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-AC30B-R-EU, Model A8GT- A1SC30NB-EU) covering to expose approximately 40 mm (1.57 inch) of the shield mesh.
Be sure not to scratch the peeled mesh.

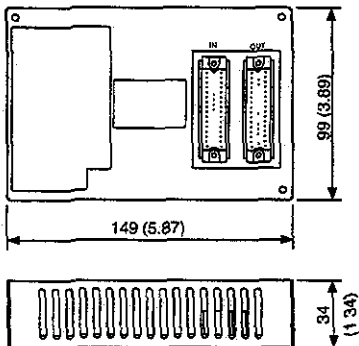


- ② Choose the respective cable clamps for the control panel in which the GOT is installed and the control panel in which the base unit is installed and ground the connection cable.
- * The cable clamp used by Mitsubishi Electric for the EMC specification compatibility test is shown below.
Mitsubishi Electric Model AD75CK cable clamp



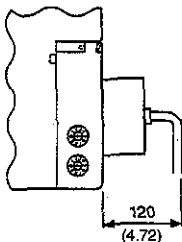
8 External Dimensions

8.1. External dimensions

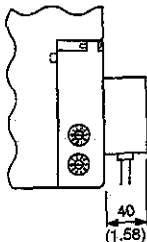


8.2. Rear view dimension diagram when bus connection cable is connected

When using the A8GT-A1SC30NB-EU



When using the A8GT-AC30B-R-EU



Unit: mm (inch)

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