MITSUBISHI

A9GT-BUS2SU type Multidrop Bus connection interface

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.

MODEL	A9GT-BUS2SU-U
MODEL CODE	1DM125
IB(NA)-0800077-C(0406)MEE	

Mitsubishi Graphic Operation Terminal

● SAFETY PRECAUTIONS ●

(Always read before starting use)

When using Mitsubishi equipment, thoroughly read this manual and the associated manuals introduced in the manual. Also pay careful attention to safety and handle the module properly.
The instructions given this manual are concerned with this product. Refer to the User's Manual of the CPU module in use for details on the safety instructions for the programmable logic controller system.
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]

⚠DANGER

- Do not bundle control lines or communication wires together with main circuit or power lines, or lay them close to these lines.
  As a guide, separate the lines by a distance of at least 100 mm (3.94 inch) otherwise malfunctions may occur due to noise.

[INSTALLATION PRECAUTIONS]

⚠DANGER

- Before mounting or dismounting this module to or from the GOT, always shut off GOT power externally in all phases.
  Not doing so can cause a module failure or malfunction.
- Before connecting the Bus connection cable to this module, always shut off GOT power and PLC CPU power externally in all phases.
  Not doing so can cause a malfunction.

[INSTALLATION PRECAUTIONS]

⚠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.
  Overtightening can cause a drop, failure or malfunction due to GOT or screw damage.

[WIRING PRECAUTIONS]

⚠CAUTION

- Insert and fit the bus connection cable into the connector of the module to be connected until it "clicks".
  After fitting, check for an unsung fit.
  Not doing so can cause a malfunction due to a connection fault.

[STARTUP AND MAINTENANCE PRECAUTIONS]

⚠DANGER

- Do not change the switch setting during power-on.
  Doing so can cause a malfunction.
- Before starting cleaning, always shut off GOT power externally in all phases.
  Not doing so can cause a module failure or malfunction.

⚠CAUTION

- Do not disassemble or modify any module.
  This will cause failure, malfunction, injuries, or fire.
- Do not touch the conductive areas and electronic parts of this module directly.
  Doing so can cause a module malfunction or failure.
- Always secure the cables connected to the module, e.g. run them in conduits or clamp them.Not doing so can cause module or cable damage due to dangling, moved or accidentally pulled cables or can cause a malfunction due to a cable contact fault.
- 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.
- Before handling the unit, touch a grounded metal or similar object to discharge the static electricity from the human body.
  Failure to do so may cause the unit to fail or mulfunction.

[DISPOSAL PRECAUTIONS]

⚠CAUTION

- Dispose of this product as industrial waste.

Manuals

The following manuals are relevant to this product.
Refer to the following list and order the required manuals.

Detailed Manuals

Manual name	Manual No. (Model code)
A985GOT/A975GOT/A970GOT/A960GOT User's Manual (Available as option)	SH-4005 (1DM099)
A950GOT/A951GOT/A953GOT/A956GOT User's Manual (Available as option)	SH-080018 (1DM103)

Relevant Manual

For relevant manual, refer to the PDF manual stored within the drawing software.

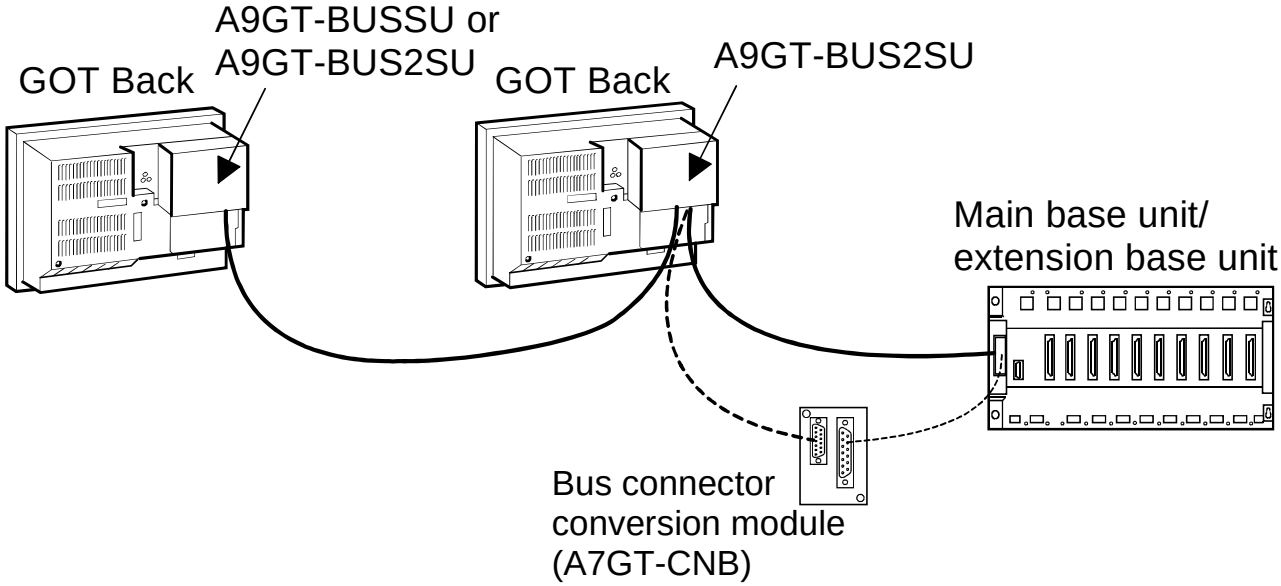
Conformation to the EMC Directive

A9GT-BUS2SU conforms to the EMC Directive only when connected to the GOT (with CE logo printed on the rating plate) which conforms to the EMC Directive.
For details of Conformation to the EMC Directive, refer to the using GOT User's Manual (Hardware).

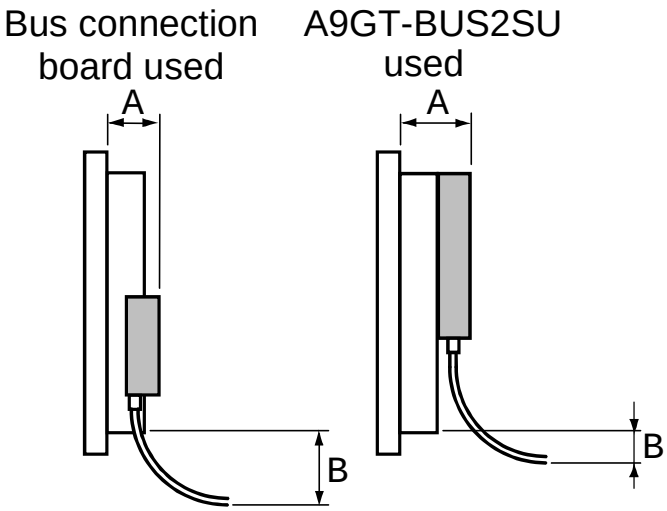
1. Overview

TThis User's Manual describes the A9GT-BUS2SU type Multidrop Bus connection interface module (hereinafter, A9GT-BUS2SU).
The A9GT-BUS2SU is mounted on the A985GOT(-V)/A975GOT/A970GOT/A960GOT/A956GOT/A956WGOT (hereinafter, GOT) to PLC system via a bus.
The A9GT-BUS2SU is a dedicated module for the GOT-A900 Series.

When one GOT is connected, this module can also be used. (When you are planning to connect more than one GOT in the future, we recommend you to use this module.)



With the A9GT-BUS2SU, the dimensions of the cable that protrudes from the bottom of the GOT are smaller than the A9GT-BUSS/A9GT-BUS2S type bus connection interface board (hereinafter, bus connection board) used with the conventional bus connection.



In case of A97□GOT

Type	A	B
Bus connection board	61 (2.4)	85 (3.35)
A9GT-BUS2SU	69 (2.72)	15 (0.59)

In case of A985GOT/A960GOT

Type	A	B
Bus connection board	64 (2.52)	100 (3.9)
A9GT-BUS2SU	72 (2.83)	30 (1.18)

Unit: mm (inch)

The applicable CPU and system configuration is the same as the conventional bus connection board.
Refer to the GOT-A900 Series User's Manual (Connection System Manual) for the configuration of the bus connection system.
The A9GT-BUS2SU cannot be used together with the bus connection board.

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

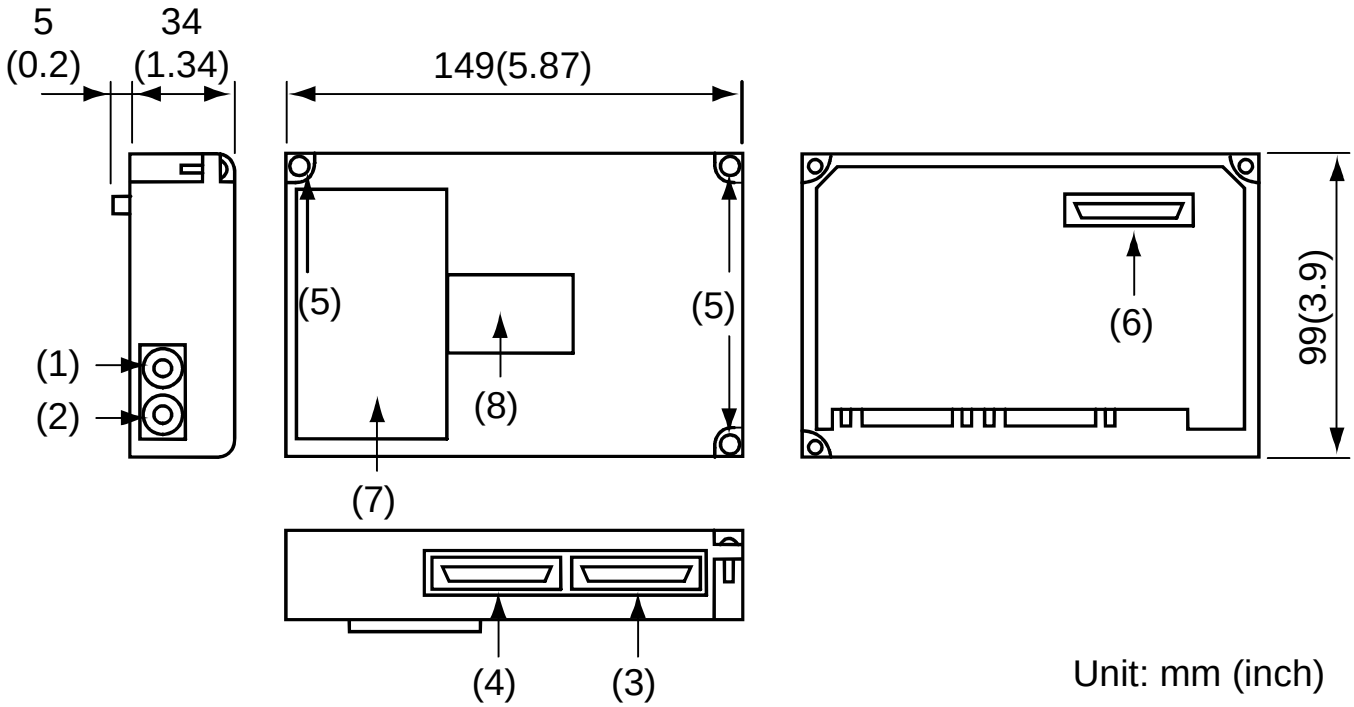
Description	Quantity
A9GT-BUS2SU	1

2. Specification

Item		Specification
I/O occupied points		32 points (I/O assignment: Special 32 points)
Internal consumed current [mA]*1	CPU 5VDC	30.0 (220*1)
	GOT 5VDC	Included in GOT
Weight [kg](lb)		0.18 (0.4)

*1: Supplied from the GOT side when GOT power is on.
Supplied from the PC system side when GOT power is off.
*2: State with PLC CPU power ON and GOT power OFF.

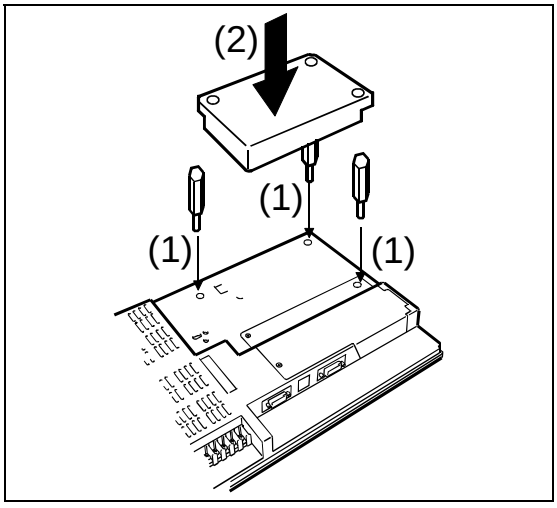
3. Name of the Parts and Outline Dimension Drawing



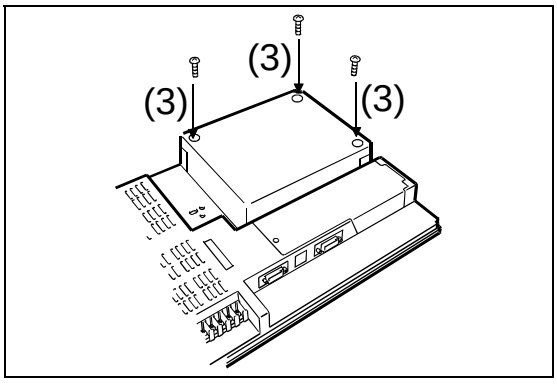
Unit: mm (inch)

No.	Name	Description
(1)	Extension number setting switch	Used to set the extension number for GOT assignment. (Factory setting: 0) <Setting range> 1 to 7 : Extension number 8, 9, 0: Must not be used.
(2)	I/O slot setting switch	Used to set the I/O slot number for GOT assignment. (Factory setting: 0) <Setting range> 0 to 7: I/O slot number 8, 9 : Must not be used.
(3)	Bus connection cable connecting interface	Interface for connection of the bus connection cable (IN side)
(4)		Interface for connection of the bus connection cable (OUT side)
(5)	mounting screw	Screw for mounting to the GOT (M3 screw)
(6)	Connector	Connector for connection to the GOT
(7)	Caution plate	-
(8)	Rating plate	-

4. Installation Procedure



(1) Fit the communication module securing fixtures in the GOT main unit.
(2) Mount the A9GT-BUS2SU on the GOT interface.



(3) Tighten and fix the mounting screws (3 pcs.) of the A9GT-BUS2SU in the specified torque range.

Warranty

Mitsubishi will not be held liable for damage caused by factors found not to be the cause of Mitsubishi; machine damage or lost profits caused by faults in the Mitsubishi products; damage, secondary damage, accident compensation caused by special factors unpredictable by Mitsubishi; damages to products other than Mitsubishi products; and to other duties.

⚠For safe use

- This product has been manufactured as a general-purpose part for general industries, and has not been designed or manufactured to be incorporated in a device or system used in purposes related to human life.
- Before using the product for special purposes such as nuclear power, electric power, aerospace, medicine or passenger movement vehicles, consult with Mitsubishi.
- This product has been manufactured under strict quality control. However, when installing the product where major accidents or losses could occur if the product fails, install appropriate backup or failsafe functions in the system.

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