

# mitsubishi

## A9GT-BUSSU type Bus connection 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.



MODEL	A9GT-BUSSU-U
MODEL CODE	1DM127
IB(NA)-0800076-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 malfunction.

## [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 Manuals

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

### Conformation to the EMC Directive

A9GT-BUSSU 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

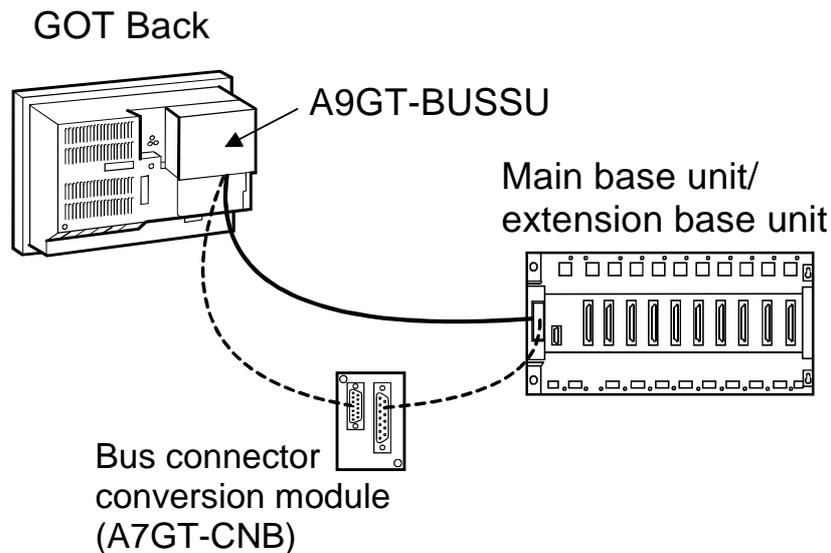
This User's Manual describes the A9GT-BUSSU type Bus connection interface module (hereinafter, A9GT-BUSSU).

The A9GT-BUSSU is mounted on the A985GOT(-V)/A975GOT/A970GOT/A960GOT/A956GOT/A956WGOT (hereinafter, GOT) to PLC system via a bus.

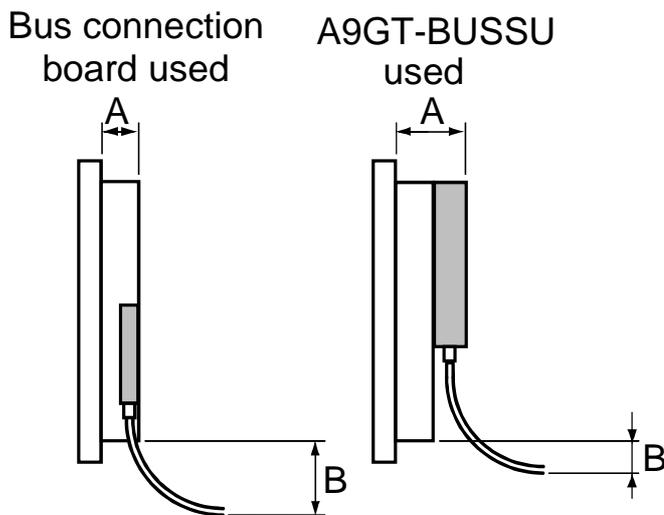
The A9GT-BUSSU is a dedicated module for the GOT-A900 Series.

The A9GT-BUSSU is used with the following system:

- (1) One GOT is connected to one PLC CPU; or
- (2) Used with the last GOT when two or more GOTs are connected to one PLC CPU.  
(Since this module has one interface.)



With the A9GT-BUSSU, 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	40 (1.57)	85 (3.35)
A9GT-BUSSU	69 (2.72)	15 (0.59)

In case of A985GOT/A960GOT

Type	A	B
Bus connection board	43 (1.69)	100 (3.9)
A9GT-BUSSU	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-BUSSU cannot be used together with the bus connection board.

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

Description	Quantity
A9GT-BUSSU	1

## 2. Specification

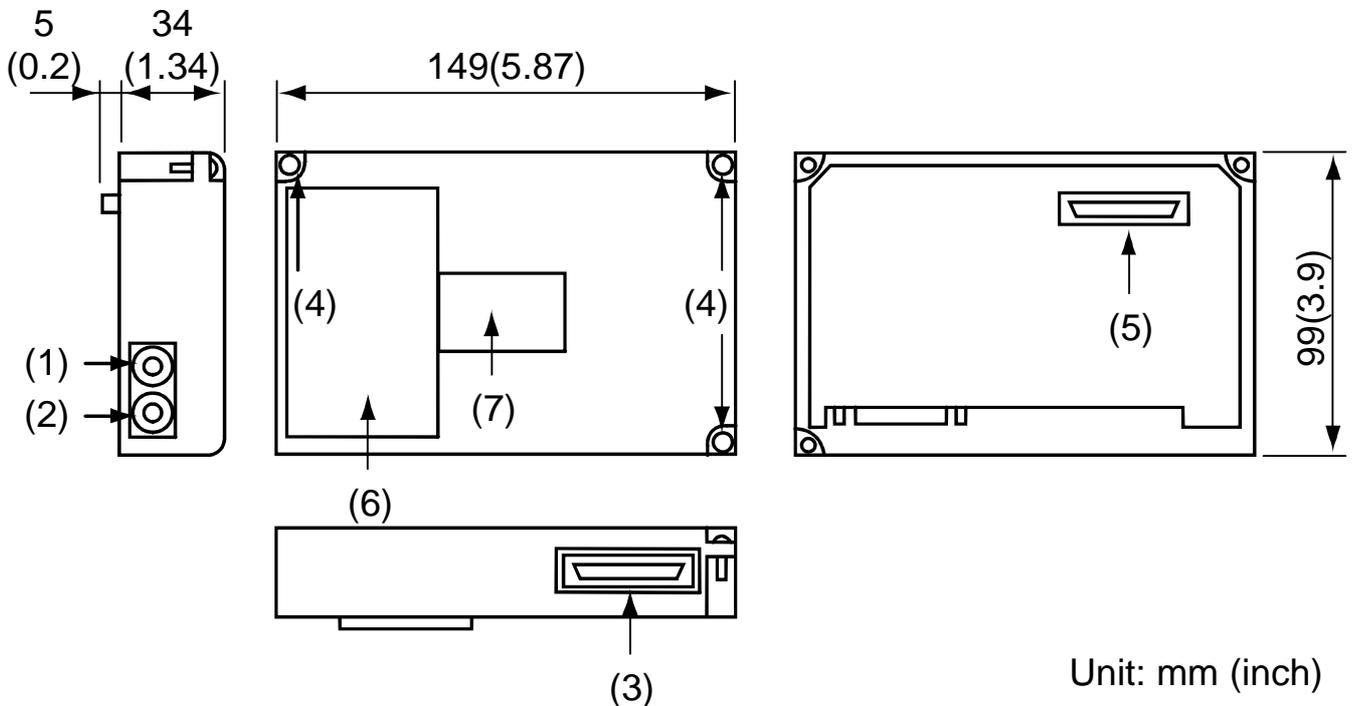
Item	Specification	
I/O occupied points	32 points (I/O assignment: Special 32 points)	
Internal consumed current [mA]*1	CPU 5VDC	29.0 (220*1)
	GOT 5VDC	Included in GOT
Weight [kg](lb)	0.17 (0.37)	

\*1: Supplied from the GOT side when GOT power is on.

Supplied from the PC system side when GOT power is off.

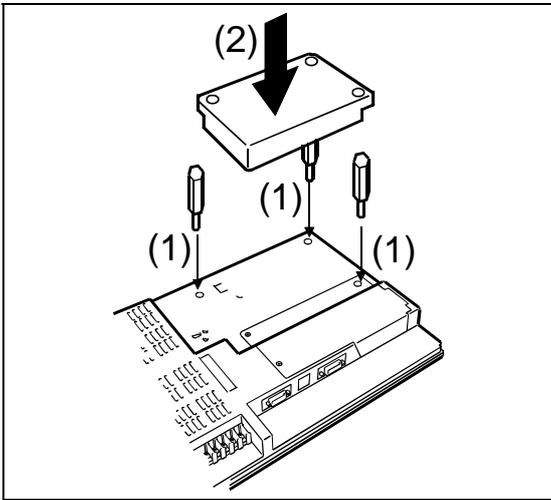
\*2: State with PLC CPU power ON and GOT power OFF.

## 3. Name of the Parts and Outline Dimension Drawing

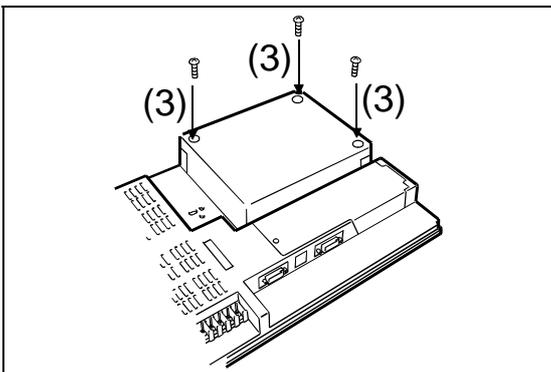


No.	Name	Description
(1)	Extension number setting switch	Used to set the extension number for GOT assignment. (Factory setting: 0) <Setting range> 1 to 7 : Extension number 8, 9, 0: Must not be used.
(2)	I/O slot setting switch	Used to set the I/O slot number for GOT assignment. (Factory setting: 0)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

## 4. Installation Procedure



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



- (3) Tighten and fix the mounting screws (3 pcs.) of the A9GT-BUSSU 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.

Country/Region	Sales office/Tel	Country/Region	Sales office/Tel
U.S.A	Mitsubishi Electric Automation Inc. 500 Corporate Woods Parkway Vernon Hills, IL 60061 Tel : +1-847-478-2100	Hong Kong	Ryoden Automation Ltd. 10th Floor, Manulife Tower, 169 Electric Road, North Point, HongKong Tel : +852-2887-8870
Brazil	MELCO-TEC Rep. Com.e Assessoria Tecnica Ltda. AV. Paulista 1471, Conj. 308, Sao Paulo City, Sao Paulo State, Brazil Tel : +55-11-283-2423	China	Ryoden Automation Shanghai Ltd. 3F Block5 Building Automation Instrumentation Plaza 103 Cao Bao Rd. Shanghai 200233 China Tel : +86-21-6475-3228
Germany	Mitsubishi Electric Europe B.V. German Branch Gothaer Strasse 8 D-40880 Ratingen, GERMANY Tel : +49-2102-486-0	Taiwan	Setsuyo Enterprise Co., Ltd. 6F., No.105 Wu-Kung 3rd.RD, Wu-Ku Hsiang, Taipei Hsine, Taiwan Tel : +886-2-2299-2499
U.K	Mitsubishi Electric Europe B.V. UK Branch Travellers Lane, Hatfield, Herts., AL10 8XB,UK Tel : +44-1707-276100	Korea	HAN NEUNG TECHNO CO.,LTD. 1F Dong Seo Game Channel Bldg., 660-11, Deungchon-dong Kangsec-ku, Seoul, Korea Tel : +82-2-3660-9552
Italy	Mitsubishi Electric Europe B.V. Italian Branch Centro Dir. Colleoni, Pal. Perseo-Ingr.2 Via Paracelso 12, 20041 Agrate B., Milano, Italy Tel : +39-039-6053344	Singapore	Mitsubishi Electric Asia Pte, Ltd. 307 ALEXANDRA ROAD #05-01/02, MITSUBISHI ELECTRIC BUILDING SINGAPORE 159943 Tel : +65-6473-2308
Spain	Mitsubishi Electric Europe B.V. Spanish Branch Carretera de Rubi 76-80 08190 - Sant Cugat del Valles, Barcelona, Spain Tel : +34-93-565-3131	Thailand	F. A. Tech Co.,Ltd. 898/28,29,30 S.V.City Building,Office Tower 2,Floor 17-18 Rama 3 Road, Bangkokpang, Yannawa, Bangkok 10120 Tel : +66-2-682-6522
France	Mitsubishi Electric Europe B.V. French Branch 25 Boulevard des Bouvets, F-92741 Nanterre Cedex, France TEL: +33-1-5568-5568	Indonesia	P.T. Autoteknindo SUMBER MAKMUR Jl. Muara Karang Selatan Block A Utara No.1 Kav. No.11 Kawasan Industri/ Pergudangan Jakarta - Utara 14440 Tel : +62-21-663-0833
South Africa	Circuit Breaker Industries LTD. Tripswitch Drive, Elandsfontein Gauteng, South Africa Tel : +27-11-928-2000	India	Messung Systems Put,Ltd. Electronic Sadan NO:111 Unit No15, M.I.D.C BHOSARI,PUNE-411026 Tel : +91-20-712-2807
		Australia	Mitsubishi Electric Australia Pty. Ltd. 348 Victoria Road, PostalBag, No 2, Rydalmere, N.S.W 2116, Australia Tel : +61-2-9684-7777

## MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE : 1-8-12, OFFICE TOWER Z 14F HARUMI CHUO-KU 104-6212, JAPAN  
NAGOYA WORKS : 1-14, YADA-MINAMI 5-CHOME, HIGASHI-KU, NAGOYA, JAPAN

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