

MITSUBISHI ELECTRIC

GOT2000/GOT1000 Series Bus Connection Unit

User's Manual

**GT15-75QBUSL
GT15-75QBUS2L
GT15-75ABUSL
GT15-75ABUS2L**

Thank you for choosing Mitsubishi Electric Graphic Operation Terminal (GOT).

Prior to use, please read both this manual and detailed manual thoroughly to fully understand the product.

MODEL	GT15-75BUSL-U
MODEL CODE	1D7M04
IB(NA)-0800298-P(2307)MEE	

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●SAFETY PRECAUTIONS●
(Always read these precautions before using this equipment.)

Before using this product, please read this manual and the relevant manuals introduced in this manual carefully and pay full attention to safety to handle the product correctly. The precautions given in this manual are concerned with this product. In this manual, the safety precautions are ranked as "WARNING" and "CAUTION".

WARNING Indicates that incorrect handling may cause hazardous conditions, resulting in death or severe injury.

CAUTION Indicates that incorrect handling may cause hazardous conditions, resulting in medium or slight personal injury or physical damage.

Note that the CAUTION level may lead to a serious accident according to the circumstances. Always follow the precautions of both levels because they are important to personal safety. Please save this manual to make it accessible when required and 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 lay them close to each other. As a guide, separate the lines by a distance of at least 100mm (3.94 inches) otherwise malfunctions may occur due to noise.

[INSTALLATION PRECAUTIONS]

WARNING

- Before mounting or dismantling this unit to or from the GOT, always shut off GOT power externally in all phases. Not doing so can cause a unit failure or malfunction.

CAUTION

- Use this unit in the environment that satisfies the general specifications described in the User's Manual for the GOT used. 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 screw or unit damage.

[WIRING PRECAUTIONS]

WARNING

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

CAUTION

- Insert and fit the bus connection cable into the connector of the unit to be connected until it "clicks". After fitting, check for lift which can cause a malfunction due to a connection fault.

[STARTUP AND MAINTENANCE PRECAUTIONS]

WARNING

- Before starting cleaning, always shut off GOT power externally in all phases. Not doing so can cause a unit failure or malfunction.

CAUTION

- Do not disassemble or modify any unit. This will cause failure, malfunction, injuries, or fire.
- Do not touch the conductive areas and electronic parts of this unit directly. Doing so can cause a unit malfunction or failure.
- Always secure the cables connected to the unit, e.g. run them in conduits or clamp them. Not doing so can cause unit 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 unit. Doing so can cause unit 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 unit. Failure to do so may cause a failure or malfunctions of the unit.

[DISPOSAL PRECAUTIONS]

CAUTION

- Dispose of this product as industrial waste.

[TRANSPORTATION PRECAUTIONS]

CAUTION

- Make sure to transport the GOT main unit and/or relevant unit(s) in the manner they will not be exposed to the impact exceeding the impact resistance described in the general specifications of the User's Manual for the GOT used, as they are precision devices. Failure to do so may cause the unit to fail. Check if the unit operates correctly after transportation.

[RECYCLING PRECAUTIONS]

CAUTION

- Dispose of this product as industrial waste.

Manual
The following shows manuals relevant to this product.

Manual name	Manual number (Model code)
GOT2000 Series User's Manual (Hardware) (Sold separately)	SH-081194ENG (1D7MJ5)
GOT2000 Series Connection Manual (Mitsubishi Products) For GT Works3 Version1 (Sold separately)	SH-081197ENG (1D7MJ8)
GT16 User's Manual (Hardware)	SH-080928ENG
GT15 User's Manual	SH-080528ENG
GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3	SH-080868ENG

For the latest e-Manuals and PDF manuals, consult your local sales office.

Compliance with the EMC and Low Voltage Directives

To configure a system meeting the requirements of the EMC and Low Voltage Directives when incorporating the Mitsubishi GOT (EMC and Low Voltage Directives compliant) into other machinery or equipment, refer to "EMC AND LOW VOLTAGE DIRECTIVES" of the General Description included with the GOT used. The CE mark, indicating compliance with the EMC and Low Voltage Directives, is printed on the rating plate of the GOT.

Compliance with the new China RoHS directive (GT15-75QBUSL, GT15-75QBUS2L)

GOT 相关的基于“电器电子产品有害物质限制使用管理办法”要求的表示方法

15 Note: This symbol mark is for China only.

含有有害6物质的名称、含量、含有部件
本产品中所含有的有害6物质的名称、含量、含有部件如下表所示。
产品中有害物质的名称及含量

部件名称	有害物质					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
电路板组件	×	○	○	○	○	○
树脂壳体、电缆、线材	○	○	○	○	○	○
钣金部件、螺丝等金属部件	○	○	○	○	○	○

本表格依据 SJ/T11364 的规定编制。
○：表示该有害物质在该部件所有均质材料中的含量均在 GB/T26572 规定的限量要求以下。
×：表示该有害物质在该部件的某一均质材料中的含量超出 GB/T26572 规定的限量要求。

Referenced Standard: GB/T15969.2 (Requirement of Chinese standardized law)

Packing List
The following items are included.

Model	Product	Quantity
GT15-75QBUSL, GT15-75QBUS2L, GT15-75ABUSL, GT15-75ABUS2L	Bus connection unit	1
	Stickers	12
	GOT2000/GOT1000 Series Bus Connection Unit User's Manual (This manual)	1

1. OVERVIEW

This user's manual describes the GOT2000/GOT1000 series bus connection unit (hereinafter referred to as the bus connection unit). Use the bus connection unit for making bus connection of the GOT. Refer to the User's Manual for the GOT used for the applicable GOT.

2. SPECIFICATIONS

The performance specifications of the bus connection unit are indicated below. The general specifications of the bus connection unit are the same as those of the GOT. Refer to the User's Manual for the GOT used for the general specifications of the GOT.

Item	GT15-75QBUSL	GT15-75QBUS2L	GT15-75ABUSL	GT15-75ABUS2L
Interface	QCPU (Q Mode) bus connection		QnA/ACPU bus connection	
Connector	IN	1	1	1
	OUT	-	1	-
I/O occupied points	16 points (I/O assignment: 16 intelligent points)		32 points (I/O assignment: Special 32 points)	
Internal current consumption (5VDC)*	0.44A	0.44A	0.12A	0.12A
Weight	0.13kg (0.29lb)	0.14kg (0.31lb)	0.13kg (0.29lb)	0.14kg (0.31lb)

* When the GOT power is on, the internal current consumption is included in the current consumption of the GOT.
When the GOT power is off, the internal current is supplied from the power supply of the PLC system.

Select the used bus connection unit according to the connection target and connection position.

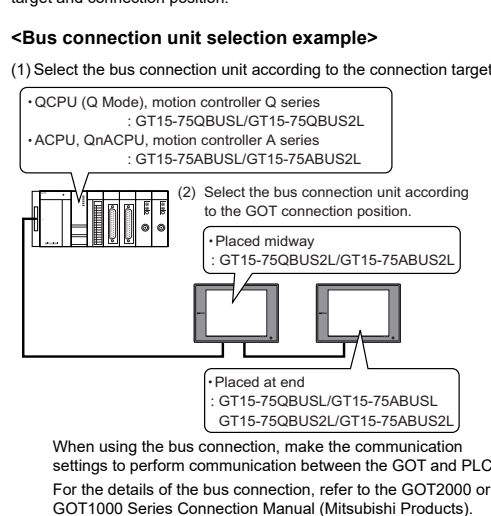
<Bus connection unit selection example>

(1) Select the bus connection unit according to the connection target.

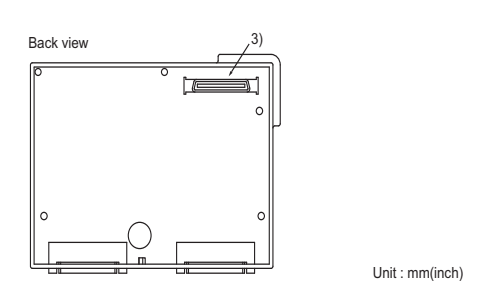
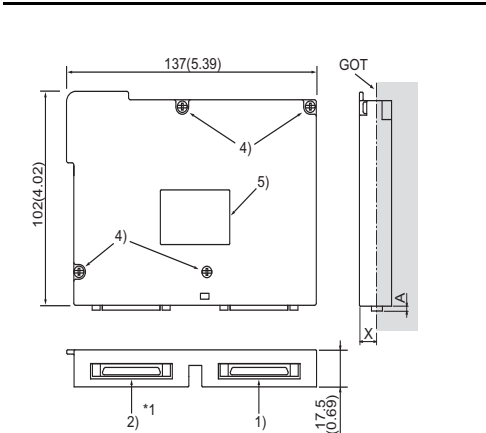
- QCPU (Q Mode), motion controller Q series : GT15-75QBUSL/GT15-75QBUS2L
- ACPU, QnACPU, motion controller A series : GT15-75ABUSL/GT15-75ABUS2L

(2) Select the bus connection unit according to the GOT connection position.

- Placed midway : GT15-75QBUS2L/GT15-75ABUS2L
- Placed at end : GT15-75QBUSL/GT15-75ABUSL, GT15-75QBUS2L/GT15-75ABUS2L



3. PART NAMES AND EXTERNAL DIMENSIONS



Model	A
GT15-75QBUSL	2.5(0.10)
GT15-75QBUS2L	2.5(0.10)
GT15-75ABUSL	4(0.16)
GT15-75ABUS2L	4(0.16)

Unit: mm (inch)

Dimensions of X when the bus connection unit is mounted to the GOT

GOT	GT27	GT25	GT16	GT15
15"	10 (0.39)	-	6.5 (0.26)	8 (0.31)
12.1"	10 (0.39)	10 (0.39)	5(0.20)	5 (0.20)
10.4"	10 (0.39)	10 (0.39)	8(0.31)	8(0.31)
8.4"	10 (0.39)	10 (0.39)	10 (0.39)	10 (0.39)
5.7"	10 (0.39)	-	10 (0.39)	10 (0.39)

Unit: mm (inch)

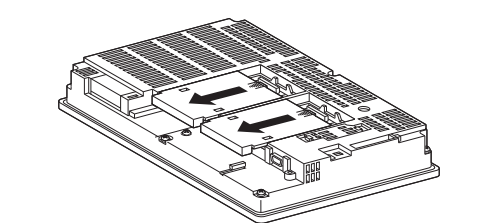
*1 When the GT15-75QBUSL/GT15-75ABUSL is used, only the IN side connector is available.

No.	Name	Description
1)	Bus connector (IN side)	Connector for connecting the bus connection cable (IN side)
2)	Bus connector (OUT side)	Connector for connecting the bus connection cable (OUT side)
3)	Extended connector	Extension connector mounted to the GOT
4)	Mounting screw	Screw (M3 screw) for fixing the unit to the GOT
5)	Rating plate	-

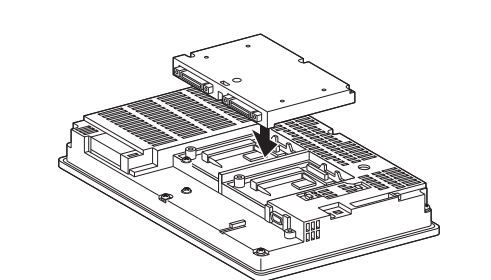
4. INSTALLATION PROCEDURE

The installation procedure for the bus connection unit is explained using the GT1575.

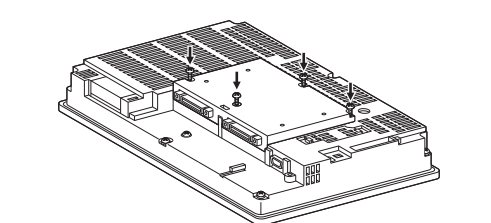
- Power off the GOT.
- Remove two extension unit covers of the GOT.



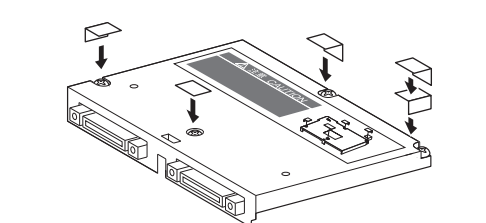
- Fit the bus connection unit in the GOT case.



- Fasten the bus connection unit by tightening its mounting screws (4 places) with tightening torque 0.36 to 0.48 N·m.



- After tightening screws, attach the supplied stickers to avoid receiving electrostatic.



Warranty
Mitsubishi Electric will not be held liable for damage caused by factors found not to be the cause of Mitsubishi Electric; machine damage or lost profits caused by faults in the Mitsubishi Electric products; damage, secondary damage, accident compensation caused by special factors unpredictable by Mitsubishi Electric; damages to products other than Mitsubishi Electric 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 Electric.
- 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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Specifications subject to change without notice.
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