MITSUBISHI

GT15 BUS CONNECTION UNIT

User's Manual

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

Thank you for purchasing the GOT1000 Series.

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-G(0810)MEE	



●SAFETY PRECAUTIONS●

(Always read these precautions before using this equipment.)

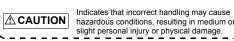
Before using this product, please read this manual and the relevant manuals introduced in this manual carefully and pay full attention to safety to handle the product correctly.

The precautions given in this manual are concerned with this prod-

In this manual, the safety precautions are ranked as "DANGER" and "CAUTION".



Indicates that incorrect handling may cause DANGER hazardous conditions, resulting in death or



Indicates that incorrect handling may cause A CAUTION hazardous conditions, resulting in medium or

Note that the A 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

IDESIGN 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 100 mm (3.94 inch) otherwise malfunctions may occur due to noise

[INSTALLATION PRECAUTIONS]

DANGER

Before mounting or dismounting 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

A CAUTION

- Use this unit in the environment given in the general specifications of GT16 User's Manual or GT15 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 screw or unit damage.

[WIRING PRECAUTIONS]

DANGER

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

A 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]

DANGER

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

⚠ 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 GT16 User's Manual or GT15 User's Manual, as they are precision devices. Failure to do so may cause the unit to fail.

Check if the unit operates correctly after transportation

Manuals

The following shows manuals relevant to this product

Detailed Manual

Manual name	Manual Number (Model code)
GT16 User's Manual (Sold separately)	SH-080778ENG (1D7M88)
GT15 User's Manual (Sold separately)	SH-080528ENG (1D7M23)
GOT1000 Series Connection Manual (Sold separately)	SH-080532ENG (1D7M26)

Relevant Manuals

For relevant manuals, refer to the PDF manuals stored in the GT Designer2 CD-ROM.

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Compliance with the EMC and Low Voltage <u>Directives</u>

When incorporating the Mitsubishi GOT into other machinery or equipment and keeping compliance with the EMC and low voltage directives, refer to "EMC AND LOW VOLTAGE DIRECTIVE" of GT15 User's Manual.

The CE logo is printed on the rating plate of the GOT, indicating compliance with the EMC and low voltage directives

Packing List

The following items are included.

Model	Product	Quantity
GT15-75QBUSL,	Bus connection unit	1
GT15-75QBUS2L, GT15-75ABUSL, GT15-75ABUS2L	Stickers	12

1. Overview

This User's Manual describes the GT15 bus connection unit (hereafter abbreviated to the bus connection unit). Use the bus connection unit for making bus connection of the

Refer to GT16 User's Manual or GT15 User's Manual for the

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 GT16 User's Manual or GT15 User's Manual for the

general specifications of the GOT.

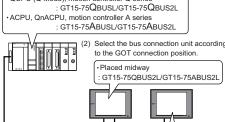
Item		GT15- 75QBUSL	GT15- 75QBUS2L	GT15- 75ABUSL	GT15- 75ABUS2L
Interfac	е	QCPU (Q Mode) bus connection		QnA/ACPU bus connection	
Connector	IN	1	1	1	1
Connector	OUT	-	1	-	1
I/O occup points		16 points (I/O assignment:16 intelligent points)		32 points (I/O assignment: Special 32 points)	
Internal cu consump (5VDC	tion	0.44A	A 0.44A 0.12A 0.		0.12A
Weigh	Weight		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>

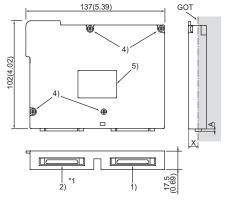
(1) Select the bus connection unit according to the connection target. QCPU (Q Mode), motion controller Q series

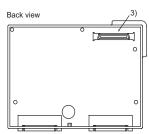


Placed at end GT15-75QBUSL/GT15-75ABUSL GT15-75QBUS2L/GT15-75ABUS2L

When using the bus connection, make the communication settings to perform communication between the GOT and PLC. Refer to GOT1000 Series Connection Manual for details of bus

3. Part Names and External Dimensions





Model	Α
GT15- 75QBUSL	2.5(0.10)
GT15- 75QBUS2L	2.5(0.10)
GT15- 75ABUSL	4(0.16)
GT15- 75ABUS2L	4(0.16)
Ur	nit: mm (inch

Dimensions of X when the bus connection unit is mounted to

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

Unit: mm(inch)

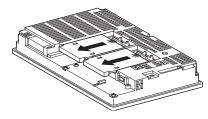
*1 When the GT15-75QBUSL/GT15-75ABUSL is used, only the IN

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	-

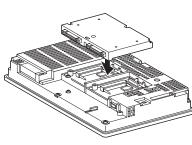
4. Installation Procedure

The method for mounting and removing the bus communication unit is explained using the GT 15 as an example.Refer to the GT16 User's Manual for the Ethernet communication unit mounting and removal methods for the

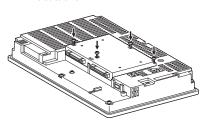
- (1) Power off the GOT.
- (2) Remove two extension unit covers of the GOT.



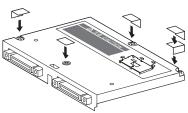
(3) Fit the bus connection unit in the GOT case.



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



(5) After tightening screws, attach the supplied stickers to avoid receiving electrostatic



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 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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