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-J(1106)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 hazardous conditions, resulting in medium or slight personal injury or physical damage.

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

[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]

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

⚠ 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]

DANGER

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

[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 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
- 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

Manuals

The following shows manuals relevant to this product.

Detailed Manual

Manual name	Manual number (Model code)
GT16 User's Manual (Hardware) (Sold separately)	SH-080928ENG (1D7MD3)
GT15 User's Manual (Sold separately)	SH-080528ENG (1D7M23)
GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3 (Sold separately)	SH-080868ENG (1D7MC2)

Relevant Manuals

For relevant manuals, refer to the PDF manuals stored in the CD-ROM for the drawing software used

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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 Radio Waves Act (South Korea)

This product complies with the Radio Waves Act (South Korea). Note the following when using the product in South Korea.

이 기기는 업무용(A급) 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으 로 합니다.

목적으로 멀니다. (The product is for business use (Class A) and meets the electromagnetic compatibility requirements. The seller and the user must note the above point, and use the

product in a place except for home.)

Packing List

The following items are included.

GT15-75QBUSL, Bus connection unit 1 GT15-75QBUS2L, GT15-75ABUSL, GT15-75ABUSL, Stickers 12	Model	Product	Quantity
GT15-75ABUSL, Stickers 12		Bus connection unit	1
0113-13AB002L		Stickers	12

1. OVERVIEW

This User's Manual describes the GT15 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.

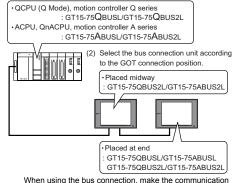
Item		GT15- 75QBUSL	GT15- 75QBUS2L	GT15- 75ABUSL	GT15- 75ABUS2L
Interface		QCPU (Q Mode) bus connection		QnA/ACPU bus connection	
Connector	IN	1	1	1	1
Connector	OUT	-	1	-	1
I/O occupied points		16 points (I/O assignment:16 intelligent points)		32 points (I/O assignment: Special 32 points)	
Internal current 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

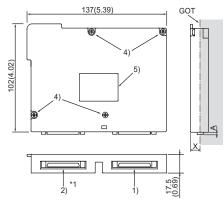
<Bus connection unit selection example>

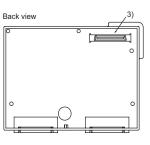
(1) Select the bus connection unit according to the connection target.



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)
U	nit: mm (inch

ions 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(0.31)
8.4"	10 (0.39)	10 (0.39)
5.7"	10 (0.39)	10 (0.39)

Unit: mm(inch)

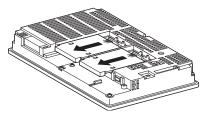
No. Name Description Connector for connecting the Bus connector (IN side) 1) ous connection cable (IN side) Bus connector (OUT Connector for connecting the 2) bus connection cable (OUT side Extension connector mounted to 3) Extended connector the GOT Screw (M3 screw) for fixing the Mounting screw 4)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

4. INSTALLATION PROCEDURE

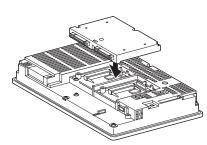
The installation procedure for the bus connection unit is explained using the GT1575.

(1) Power off the GOT.

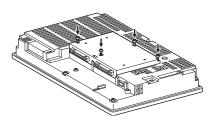
(2) Remove two extension unit covers of the GOT.



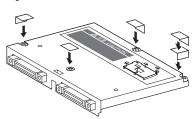
(3) Fit the bus connection unit in the GOT case.



(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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Specifications subject to change without notice Printed in Japan, June 2011.

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