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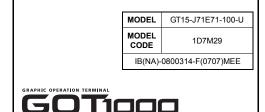
GT15 Ethernet communication unit

User's Manual

GT15-J71E71-100

Thank you for purchasing the GOT1000 Series.

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



●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 "DANGER" and "CAUTION".

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

Note that the \triangle 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.

2.2 Specifications of the related devices

Use the connection cable and the hub which meet the IEEE802.3 10BASE-T/100BASE-TX standard.

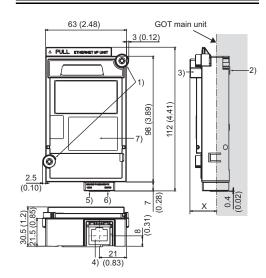
Item	Specifications	
	10BASE-T	100BASE-TX
Cable	Non-shielded twisted pair wire (UTP cable) (category3(4, 5))	Shielded twisted pair wire (STP cable) (category5)
Connector	RJ45jack	RJ45jack
Hub	10Mbps hub	100Mbps hub

See the "List of valid devices applicable for GOT1000 series" (GOT-A-0010) for information about models whose operations have been confirmed.

For technical documents, please contact your local Mitsubishi representative. When using any model not mentioned in the "List of valid devices

When using any model not mentioned in the "List of valid devices applicable for GOT1000 series", the model may not work normally. The Technical News above is available as a reference at the information site for Mitsubishi industrial automation products. (MELFANSweb website: http://wwwf2.mitsubishielectric.co.jp/ english/index.html)

3. Part Names and External Dimensions



[DESIGN PRECAUTIONS]

DANGER

 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

 Be sure to shut off all phases of the external power supply used by the system before mounting or removing this unit to/from the GOT. Not doing so can cause a unit failure or malfunction.
 - 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.

- Use this unit in the environment given in the general specifications of 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.
- Orderightening can cause a drop, failure or malfunction. Overtightening can cause a drop, failure or malfunction due to screw or unit damage.

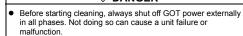
[WIRING PRECAUTIONS]

	OANGER
•	Be sure to shut off all phases of the external power supply used by the system before wiring. Failure to do so may result in an electric shock, product damage or malfunctions.
-	Line original contract, procedure displacement or coldering to wire

- the connectors for external connections properly using the manufacturer-specified tools. If the connection is incomplete, it may cause the module to short circuit, catch fire, or malfunction.
- circuit, catch fire, or malfunction. Connect the connectors to the unit securely. 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.

[STARTUP AND MAINTENANCE PRECAUTIONS]

OANGER



\triangle 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.
- Doing so can cause a unit malfunction or failure.
 Exercise care to avoid foreign matter such as chips and wire offcuts entering the unit.
- Not doing so can cause a fire, failure or malfunction. Do not hold the cable part when unplugging any cable connected to the unit. Doing so can cause unit or cable damage
- 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]

A CAUTION

Dispose of this product as industrial waste.

[TRANSPORTATION PRECAUTIONS]

A 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 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.

<u>Manuals</u>

The following shows manuals relevant to this product.

Detailed Manual

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

For relevant manuals, refer to the PDF manual stored within the

drawing software used.

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Compliance with the EMC and Low Voltage Directives

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.

(5) When installing an extension unit on the unit that has

been installed, remove the connector cover and the

When not installing an extension unit on the unit that

Packing List The following items are included.

3 •		
Model	Product	Quantity
GT15-J71E71-100	Ethernet communication unit	1
G115-571E71-100	Mounting screw set (2 screws, 2 stickers)	1

1. Overview

This User's Manual describes the GT15 Ethernet

communication unit. The GT15-J71E71-100 is required for the operations such as the Ethernet connection or Gateway function with GOT. For attachable GOTs, refer to GT15 User's Manual.

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

For information concerning necessary OS in case of using GT15-J71E71-100,refer to GOT 1000 Series Connection Manual.

2. Specifications

2.1 Performance Specifications

The performance specifications of the Ethernet communication unit are indicated below. The general specifications of the Ethernet communication unit

are the same as those of the GOT. Refer to GT15 User's Manual for the general specifications of the GOT.

Item		Specification	
	Data transfer method	10BASE-T	100BASE-TX
	Transmission method	Base band	Base band
Transmission specifications	Maximum node to mode distance	200m	200m
specifications	Maximum segment length	100m	100m
	Maximum number of cascade connection	4 steps	2 steps
Number of units mounted to GOT		Only 1 unit ca to the extensi interface.	in be mounted on unit
Connecting	Number of GOTs connected	128 (Recommend 16 or less)*1*2	
condition	GOT placing distance	100m*1	
Internal current consumption (5VDC)		0.224A	
Weight		0.09kg (0.20lb)	

1 This depends on the specifications of the Ethernet network system to which the GOT is connected. For the details, refer to the manual of Ethernet module of connected PLC.

*2 If multiple network equipments (including GOT) are connected within a segment, the network load would increase. In such condition, the communication performance between GOT

and PLC may be declined. The decline of the communication performance may be improved by the following measures.

Using switching hubs.
 Reducing the number of monitoring devices of the GOT.

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.
- 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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No.	Name	Description
1)	Mounting screw	Mounting screws fixed with a front extension unit or GOT
2)	Interface connector	Extension connector installed to a front extension unit or the GOT
3)	Extension connector	Extension connector to which a back extension unit is installed
4)	Ethernet connector	Connector to which Ethernet cable is connected
5)	100M LED	It lights up during 100 Mbps transmission.
6)	SD/RD LED	It blinks during data sending/receiving.
7)	Rating plate	-

4. Installation Procedure

(1) Power off the GOT.

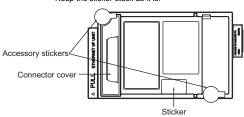
(2) Remove one extension unit cover of the GOT.



(3) Fit the Ethernet communication unit in the GOT case

has been installed, in order to avoid receiving electrostatic, stick accessory stickers to cover the top of mounting screws (2 places). kep the connector cover fixed. Keep the sticker stuck as it is.

sticker.



Point

- (1) Grounding work for the 10BASE-T and 100BASE-TX requires appropriate safety measures. Consult professionals for work details including terminal of
- connection cables and other plant work such as laying of main cables. (2) If you remove the Ethernet unit, detach it from specified

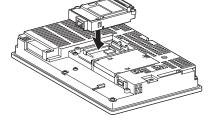
direction (shown PULL) so as not to break a connector. Ethernet is a registered trademark of Xerox Corporation, U.S.

Other business or product names mentioned herein are a trademark or registered trademark of each company.

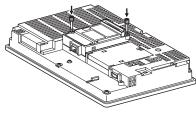
Dimensions of X when the Ethernet communication unit is mounted to the GOT.

15", 10.4"	21 (0.83)
12.1"	18 (0.71)
8.4", 5.7"	23 (0.91)

unit: mm (inch)



(4) Fasten the Ethernet communication unit by tightening its mounting screws (2 places) with tightening torque 0.36 to 0.48 N•m.



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