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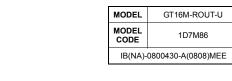
GT16 RGB Output Unit

User's Manual

GT16M-ROUT

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 prod-

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 Always follow the precautions of both levels because they are impor-

tant to personal safety. 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 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.

A CAUTION

- Use this unit in the environment given in the general specifications of the GT16 User's Manual. Not doing so can cause an electric shock, fire, malfunction or product damage or deterioration.
- Do not drop the unit or subject it to string shock A unit damage may result.
- 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. Screw or unit damage.

[WIRING PRECAUTIONS]

DANGER

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.

- 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
- Make sure to securely connect the cable to the connector of unit.
- Incorrect connection may cause malfunctions.

[STARTUP AND MAINTENANCE PRECAUTIONS]

- **OANGER** Before starting cleaning, always shut off GOT power externally
- in all phases Not doing so can cause a unit failure or malfunction. Undertightening can cause the GOT to drop, short circuit or
- malfunction.
- Overtightening can cause a short circuit or malfunction due to the damage of the screws or unit.
- 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]

A CAUTION Dispose of this product as industrial waste

[TRANSPORTATION PRECAUTIONS]

 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 GT16 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 separate)	y) SH-080778ENG (1D7M23)
GOT1000 Series Connection Manual (1/3 to 3/3) (Sold separatel	SH-080532ENG (1D7M88)
GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (1/3 to 3/3 (Sold separatel	3) SH-080530ENG (1D7M25)

Relevant Manuals

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

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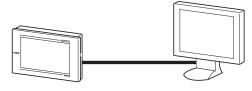
Packing List

After unpacking the box, check that the following products are

includeu.		
Model	Product	Quantity
GT16M-ROUT	RGB output unit	1
	Mounting screw set (4 screws, 4 stickers)	1
	Extension interface relay board	1

1. OVERVIEW

This User's Manual describes the GT16M-ROUT RGB output unit (referred to as the RGB output unit hereinafter)



GOT+GT16M-ROUT

External display

To use the RGB output unit set the communication settings For the settings and system configurations, refer to GOT1000 Series Connection Manual. For RGB output functions, refer to GT Designer2 Version Screen Design Manual.

4. INSTALLATION PROCEDURE

1) Turn off the GOT.

2) Remove two extension unit covers of the GOT



3) Connect the extension interface relay board to the extend I/F-2 on the GOT. Remove the connector cover from the board

4) Fit the RGB output unit in the GOT case.

5)Tighten four mounting screws with a torque of 0.36 to 0.48 N•m to fix the unit.

6) Tighten two board fixing screws with a torque of 0.36 to 0.48 N·m to fix the board. 5)



7) For mounting any extension unit on the RGB output unit, remove and the stick

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.

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2. SPECIFICATIONS

The following shows the performance specifications of the the RGB output unit.

The general specifications of the RGB output unit are the same as those of the GOT.

For the general specifications of the GOT, refer to GT16 User's Manual

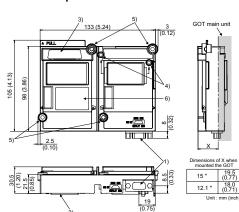
2.1	RGB	output	unit
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2.1 RGB output unit				
ltem		Specifications		
	item		GT1695M-X	GT1685M-S
	RGB output format		Analog RGB	
	Display size (dot)		XGA; 1024×768	SVGA; 800×600
	Number of RGB output channels		1 channel	
RGB	Dot clock Horizontal scanning frequency Vertical scanning frequency Timing chart		65.000 MHz	40.000 MHz
output section			48.400 kHz	37.900 kHz
			60.004 Hz	60.317 Hz
			Refer to 2.2.	Refer to 2.3.
	Connector t	for external	D-Sub15 pin: female	
Internal	current	3.3VDC	0.13A	
consum	ption	5.0VDC	0.11 A	
Weight	Weight		0.17 kg (0.34 lb)	

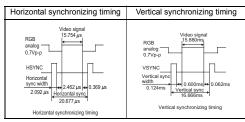
2.2 GT1695M-X Timing Chart

3. PART NAMES AND EXTERNAL DIMENSIONS

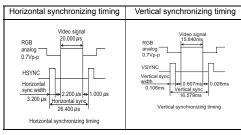
3.1 RGB Output Unit



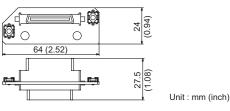
No.	Name	Description
1)	Connector for RGB output	Connector for connecting a 9-core combined cable
2)	Interface connector	Connector connected to the GOT
3)	Extension connector	Connector for connecting an extension unit
4)	Board fixing screw	Screw for fixing the extension interface relay board
5)	Mounting screw	Screw for fixing the RGB output unit
6)	Rating plate	-



2.3 GT1685M-S Timing Chart

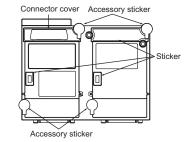


3.2 Extension Interface Relay Board



For mounting no extension unit on the RGB output unit, cover over four mounting screws with the accessory stickers to avoid static electricity

Keep the connector cover fixed. Keep all the stickers fixed.



Point

Remove the screws that fixes the extension interface relay board before removing the unit.(Above 6))

MITSUBISHI ELECTRIC CORPORATION

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