

MITSUBISHI

GT15 RS-422 CONVERSION UNIT

User's Manual

GT15-RS2T4-9P  
GT15-RS2T4-25P

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-RS2T4-U
MODEL CODE	1D7M05
IB(NA)-0800299-D(0707)MEE	

GRAPHIC OPERATION TERMINAL  
**GOT1000**

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.
- 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 install them close to each other. They should be installed 100mm (3.9inch) or more from each other. Not doing so could result in noise that may cause malfunction.

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 module 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. Overtightening can cause a drop, failure or malfunction due to screw or GOT damage.

WIRING PRECAUTIONS

- DANGER**
  - When connecting the communication cable to this unit, be sure to power off the GOT externally in all phases. Failure to do so may cause a malfunction.

- CAUTION**
  - Connect the communication cable to the connector of the target unit, and tighten the connector mounting screw in the specified torque range. Undertightening may cause a short circuit or malfunction. Overtightening may cause a short circuit or malfunction due to damage to the screw or GOT.

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 module. 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 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)
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 manual stored within the drawing software used.

© 2004 MITSUBISHI ELECTRIC CORPORATION

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.

Packing List

The following item is included.

Model	Product	Quantity
GT15-RS2T4-9P GT15-RS2T4-25P	RS-422 conversion unit	1

1. Overview

This User's Manual describes the GT15 RS-422 conversion unit (hereafter abbreviated to the RS-422 conversion unit). The RS-422 conversion unit is a unit installed to the RS-232 interface of the GOT to make RS-232/RS-422 conversion to enable RS-422 communication. Refer to GT15 User's Manual for the applicable GOT.

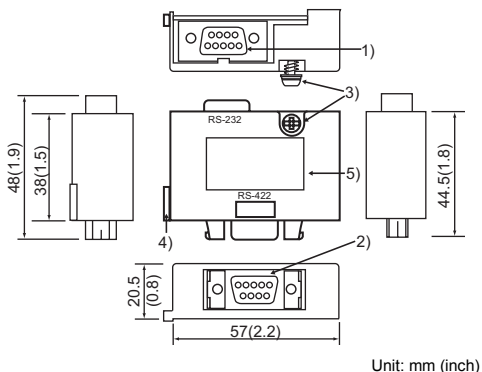
2. Specifications

The performance specifications of the RS-422 conversion unit are indicated below. The general specifications of the RS-422 conversion unit are the same as those of the GOT. Refer to GT15 User's Manual for the general specifications of the GOT.

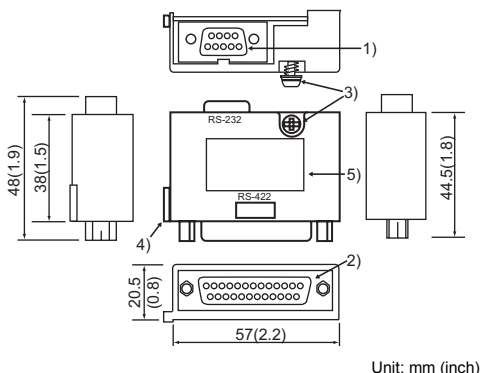
Item	GT15-RS2T4-9P	GT15-RS2T4-25P
Interface	D-sub 9 pins (female)	D-sub 25 pins (female)
RS-422 connector	DDK make (17LE-13090-27 (D2AC))	DDK make (17LE-13250-27 (D3AC))
Internal current consumption (5VDC)	0.098A	
Weight	0.04kg (0.09lb)	

3. Part Names and External Dimensions

(1) GT15-RS2T4-9P

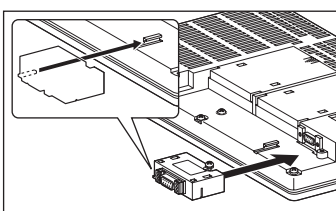


(2) GT15-RS2T4-25P

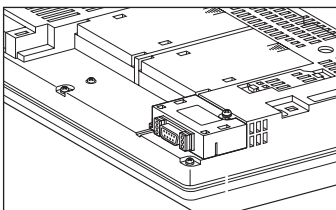


4. Installation Procedure

- Power off the GOT.
- While sliding the hook of the RS-422 conversion unit along the RS-422 conversion unit mounting rail of the GOT, install the RS-422 conversion unit to the RS-232 interface of the GOT.



- After installation, tighten the fixing screw within the specified torque range (0.36 to 0.48 N·m).



**POINT**  
Set to [ON] by [5V supply] at [Communication settings] of the utility.

No.	Name	Description
1)	Communication connector (RS-232 side)	For connecting the RS-232 interface of the GOT
2)	Communication connector (RS-422 side)	For connecting the RS-422 cable of the communication device
3)	Fixing screw	Screw for fixing the unit to the GOT (M3 screw)
4)	Hook	For hooking on the GOT
5)	Rating plate	-

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.

Country/Region	Sales office/Tel
U.S.A.	Mitsubishi Electric Automation Inc. 500 Corporate Woods Parkway Vernon Hills, IL 60061, U.S.A. Tel : +1-847-478-2100
Brazil	MELCO-TEC Rep. Com.e Assessoria Tecnica Ltda. Rua Correia Dias, 184, Edificio Paraiso Trade Center-8 andar Paraiso, Sao Paulo, SP Brazil Tel : +55-11-5908-8331
Germany	Mitsubishi Electric Europe B.V. German Branch Gothaer Strasse 9 D-40880 Ratingen, GERMANY Tel : +49-2102-486-0
U.K.	Mitsubishi Electric Europe B.V. UK Branch Travellers Lane, Hatfield, Hertfordshire., AL10 8XB, U.K. Tel : +44-1707-276100
Italy	Mitsubishi Electric Europe B.V. Italian Branch Centro Dir. Colleoni, Pal. Perseo-Ingr.2 Via Paracelso 12, I-20041 Agrate Brianza., Milano, Italy Tel : +39-039-60531
Spain	Mitsubishi Electric Europe B.V. Spanish Branch Carretera de Rubi 76-80 E-08190 Sant Cugat del Valles, Barcelona, Spain Tel : +34-93-565-3131
France	Mitsubishi Electric Europe B.V. French Branch 25, Boulevard des Bouvets, F-92741 Nanterre Cedex, France TEL: +33-1-5568-5568
South Africa	Circuit Breaker Industries Ltd. Private Bag 2016, ZA-1600 Isando, South Africa Tel : +27-11-928-2000
Hong Kong	Mitsubishi Electric Automation (Hong Kong) Ltd. 10th Floor, Manulife Tower, 169 Electric Road, North Point, Hong Kong Tel : +852-2887-8870
China	Mitsubishi Electric Automation (Shanghai) Ltd. 4/F Zhi Fu Plaza, No.80 Xin Chang Road, Shanghai 200003, China Tel : +86-21-6120-0808
Taiwan	Setsuyo Enterprise Co., Ltd. 6F No.105 Wu-Kung 3rd.Rd, Wu-Ku Hsiang, Taipei Hsine, Taiwan Tel : +886-2-2299-2499
Korea	Mitsubishi Electric Automation Korea Co., Ltd. 1480-6, Gayang-dong, Gangseo-ku Seoul 157-200, Korea Tel : +82-2-3660-9552
Singapore	Mitsubishi Electric Asia Pte. Ltd. 307 Alexandra Road #05-01/02, Mitsubishi Electric Building, Singapore 159943 Tel : +65-6470-2460
Thailand	Mitsubishi Electric Automation (Thailand) Co., Ltd. Bang-Chan Industrial Estate No.111 Moo 4, Serithai Rd, T.Kannayao, A.Kannayao, Bangkok 10230 Thailand Tel : +66-2-517-1326
Indonesia	P.T. Autoteknindo Sumber Makmur Muara Karang Selatan, Block A/Utara No.1 Kav. No.11 Kawasan Industri Pergudangan Jakarta - Utara 14440, P.O.Box 5045 Jakarta, 11050 Indonesia Tel : +62-21-6630833
India	Messung Systems Pvt. Ltd. Electronic Sadan NO:III Unit No15, M.I.D.C Bhosari, Pune-411026, India Tel : +91-20-2712-3130
Australia	Mitsubishi Electric Australia Pty. Ltd. 348 Victoria Road, Rydalmere, N.S.W 2116, Australia Tel : +61-2-9684-7777

**MITSUBISHI ELECTRIC CORPORATION**  
HEAD OFFICE : TOKYO BUILDING, 2-7-3 MARUNOUCHI, CHYODA-KU, TOKYO 100-8310, JAPAN  
NAGOYA WORKS : 1-14, YADA-MINAMI 5-CHOME, HIGASHI-KU, NAGOYA, JAPAN

When exported from Japan, this manual does not require application to the Ministry of Economy, Trade and Industry for service transaction permission.  
Specifications subject to change without notice.  
Printed in Japan on recycled paper.