

MITSUBISHI ELECTRIC

GT15 RS-422 CONVERSION UNIT

User's Manual

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

Thank you for choosing Mitsubishi Electric Graphic Operation Terminal (GOT).

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-K(1806)MEE	

GRAPHIC OPERATION TERMINAL
GOT1000

© 2004 MITSUBISHI ELECTRIC CORPORATION

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".

WARNING 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 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

WARNING

- 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 mounting this unit to the GOT, fit it to the RS-232 interface of the GOT, and tighten the mounting screws with a No. 2 Phillips screwdriver in the specified torque range (0.36 to 0.48 N·m). Overtightening can cause a drop, failure or malfunction. Overtightening can cause a drop, failure or malfunction due to damage to the screw or GOT damage.

WIRING PRECAUTIONS

WARNING

- 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. Overtightening 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

WARNING

- 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 this unit. Doing so can cause a failure, malfunction, injury, 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 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.

Manual

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 DVD-ROM for the drawing software used.

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 new China RoHS directive

GOT 相关的基于“电器电子产品有害物质限制使用管理办法”要求的表示方法



Note: This symbol mark is for China only.

含有有害6物质的名称、含有量、含有部件
本产品中所含的有害6物质的名称、含有量、含有部件如下表所示。
产品中有害物质的名称及含量

部件名称	有害物质					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
电路板组件	×	○	○	○	○	○
树脂壳体、电缆、线材	○	○	○	○	○	○
钣金部件、螺丝等金属部件	○	○	○	○	○	○

本表格依据 SJ/T11364 的规定编制。
○：表示该有害物质在该部件所有均质材料中的含量符合 GB/T26572 规定的限量要求以下。
×：表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T26572 规定的限量要求。

Referenced Standard: GB/T15969.2

(Requirement of Chinese standardized law)

Packing List

The following item is included.

Model	Product	Quantity
GT15-RS2T4-9P	RS-422 conversion unit	1
GT15-RS2T4-25P	GT15 RS-422 CONVERSION UNIT User's Manual (This manual)	1

1. OVERVIEW

This User's Manual describes the GT15 RS-422 conversion unit (hereinafter referred to as 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 the User's Manual for the GOT used for the applicable GOT.

2. SPECIFICATIONS

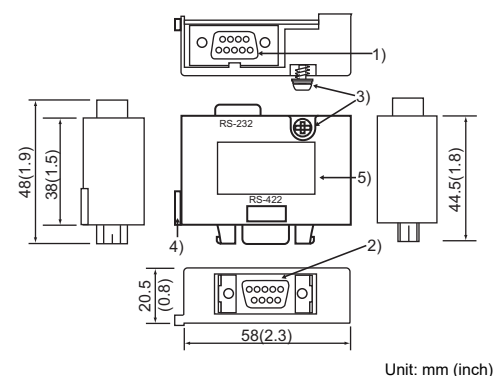
The performance specifications of the RS-422 conversion unit are indicated below.

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

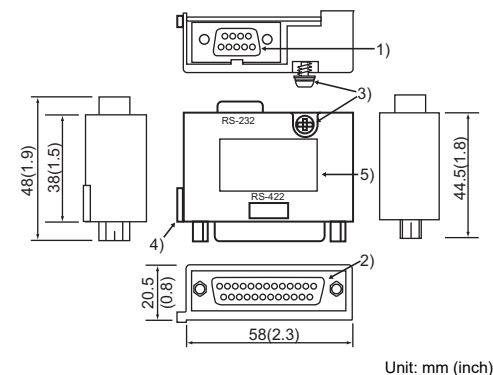
Item	GT15-RS2T4-9P	GT15-RS2T4-25P
Interface	D-sub 9 pins (female)	D-sub 25 pins (female)
RS-422 connector	DDK make (17LE-13090-27 (D2AC))	DDK make (17LE-13250-27 (D3AC))
Internal current consumption (5VDC)	0.098A	
Weight	0.04kg (0.091lb)	

3. PART NAMES AND EXTERNAL DIMENSIONS

(1) GT15-RS2T4-9P



(2) GT15-RS2T4-25P

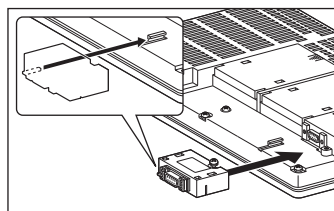


No.	Name	Description
1)	Communication connector (RS-232 side)	For connecting the RS-232 interface of the GOT
2)	Communication connector (RS-422 side)	For connecting the RS-422 cable of the communication device
3)	Fixing screw	Screw for fixing the unit to the GOT (M3 screw)
4)	Hook	For hooking on the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

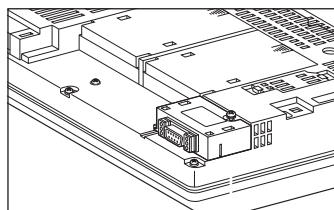
4. INSTALLATION PROCEDURE

The installation procedure for the RS-422 conversion unit is explained using the GT1575.

- 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.

Warranty

Mitsubishi Electric will not be held liable for damage caused by factors found not to be the cause of Mitsubishi Electric; machine damage or lost profits caused by faults in the Mitsubishi Electric products; damage, secondary damage, accident compensation caused by special factors unpredictable by Mitsubishi Electric; damages to products other than Mitsubishi Electric 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 Electric.
- 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
USA	Mitsubishi Electric Automation, Inc. 500 Corporate Woods Parkway, Vernon Hills, IL 60061, U.S.A. Tel: +1-847-478-2100
Brazil	Mitsubishi Electric do Brasil Comercio e Servicos Ltda. Avenida Adelino Cardana, 293, 21 andar, Bethaville, Barueri SP, Brasil CEP 06401-147 Tel: +55-11-4889-3000
Mexico	Mitsubishi Electric Automation, Inc. Mexico Branch Mariano Escobedo #69, Col. Zona Industrial, Tlalpan, Edo. Mexico, C.P.54030 Tel: +52-55-3067-7511
Germany	Mitsubishi Electric Europe B.V. German Branch Mitsubishi-Electric-Platz 1, 40882 Ratingen, Germany Tel: +49-2102-486-0
UK	Mitsubishi Electric Europe B.V. UK Branch Travellers Lane, Hatfield, Hertfordshire, AL10 8XB, U.K. Tel: +44-1477-28-8780
Italy	Mitsubishi Electric Europe B.V. Italian Branch Centro Direzionale Colsoni - Palazzo Sirio, Viale Colsoni 7, Agrate Brianza (MB), Italy Tel: +39-039-60531
Spain	Mitsubishi Electric Europe B.V. Spanish Branch Carretera de Rubi 76-80-Apdo.420, 08190 Sant Cugat del Valles (Barcelona), Spain Tel: +34-935-65-3131
France	Mitsubishi Electric Europe B.V. French Branch 25, Boulevard des Bouvets, 92741 Nanterre Cedex, France Tel: +33-1-55-68-55-68
Czech	Mitsubishi Electric Europe B.V. Czech Branch Avenir Business Park, Radlicka 751/113e, 158 00 Praha 5, Czech Republic Tel: +420-251-551-470
Turkey	Mitsubishi Electric Turkey A.S. Umraniye Branch Serfalli Mahallesi Nutuk Sokak No.5, TR-34775 Umraniye / Istanbul, Turkey Tel: +90-216-526-3990
Poland	Mitsubishi Electric Europe B.V. Polish Branch ul. Krakowska 50, 52-063 Balice, Poland Tel: +48-12-347-65-00
Russia	Mitsubishi Electric (Russia) LLC St. Petersburg Branch Pskarevsky pr. 2, bld 2, lit "Sch", BC "Benusa", office 720; RU-195027 St. Petersburg, Russia Tel: +7-812-633-3497
South Africa	Adroit Technologies 20 Waterford Office Park, 189 Wilkopen Road, Fourways, Johannesburg, South Africa Tel: +27-11-658-8100
China	Mitsubishi Electric Automation (China) Ltd. No.1386 Hongqiao Road, Mitsubishi Electric Automation Center, Shanghai, China Tel: +86-21-2322-3030
Taiwan	SETSUYO ENTERPRISE CO., LTD. 6F, No.105, Wupong 3rd Road, Wugu District, New Taipei City 24889, Taiwan Tel: +886-2-2299-2499
Korea	Mitsubishi Electric Automation Korea Co., Ltd. 7F-8F, Gangseo Hangang Xi-tower A, 401, Yangcheon-ro, Gangseo-Gu, Seoul 07526, Korea Tel: +82-2-3660-9530
Singapore	Mitsubishi Electric Asia Pte. Ltd. 307 Alexandra Road, Mitsubishi Electric Building, Singapore 159943 Tel: +65-6473-2308
Thailand	Mitsubishi Electric Factory Automation (Thailand) Co., Ltd. 12th Floor, SV.City Building, Office Tower 1, No. 896/19 and 20 Rama 3 Road, Kwaeng Bangpoo, Khet Yannawa, Bangkok 10120, Thailand Tel: +66-2682-6522 to 31
Indonesia	PT. Mitsubishi Electric Indonesia Gedung Jaya 11th Floor, J.L. MH. Thamrin No.12, Jakarta Pusat 10340, Indonesia Tel: +62-21-3192-6461
Vietnam	Mitsubishi Electric Vietnam Co., LTD. Ho Chi Minh Head Office Unit 01-04, 10th Floor, Vincom Center, 72 Le Thanh Ton Street, District 1, Ho Chi Minh City, Vietnam Tel: +84-8-3910-5945
India	Mitsubishi Electric India Pvt. Ltd. Pune Branch Emerald House, EL-3, 3 Block, M.I.D.C., Bhosari, Pune - 411026, Maharashtra, India Tel: +91-20-2710-2000
Australia	Mitsubishi Electric Australia Pty. Ltd. 348 Victoria Road, P.O. Box 11, Rydalmere, N.S.W. 2116, Australia Tel: +61-2-9684-7777

MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE: TOKYO BUILDING, 2-7-3 MARUINOCHI, CHIYODA-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, June 2018.