MITSUBISHI A9GT-50WRS2/A9GT-50WRS4 type Serial Communication Board

User's Manual

Thank you for buying the MELSEC-GOT Series

Prior to use, please read both this manual and detailed manual thoroughly and familiarize yourself with the product.



MODEL	A9GT-50WRS2/RS4-U		
MODEL	1DM113		
CODE			
IB(NA)-0800186-B(0406)MEE			

MITSUBISHI Graphics Operation Terminal

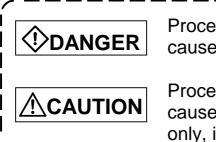
SAFETY PRECAUTIONS •

(Always read before starting use)

When using Mitsubishi equipment, thoroughly read this manual and the associated manuals introduced in the manual. Also pay careful attention to safety and handle the module properly.

These precautions apply only to the installation of Mitsubishi equipment and the wiring with the external device. Refer to the user's manual of the CPU module to be used for a description of the PLC system safety precautions.

These • SAFETY PRECAUTIONS • classify the safety precautions into two categories: "DANGER" and "CAUTION".



Procedures which may lead to a dangerous condition and cause death or serious injury if not carried out properly.

Procedures which may lead to a dangerous condition and cause superficial to medium injury, or physical damage only, if not carried out properly.

Depending on circumstances, procedures indicated by **CAUTION** may also be linked to serious results.

In any case, it is important to follow the directions for usage.

Store this manual in a safe place so that you can take it out and read it whenever necessary. Always forward it to the end user.

[DESIGN PRECAUTIONS]

 Do not bundle control lines or communication wires together with main circuit or power lines, or lay them close to these lines.
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]

• Before mounting or dismounting this module to or from the GOT, always shut off GOT power.

Not doing so can cause a module failure or malfunction.

 Before connecting the Communication cable to this module, always shut off GOT power.

Not doing so can cause a malfunction.

[INSTALLATION PRECAUTIONS]

• Use this module in the environment given in the general specifications of the GOT User's Manual.

Not doing so can cause an electric shock, fire, malfunction or product damage or deterioration.

- Insert the communication board securely into the GOT connector. After it has been inserted, check to make sure that it is not being lifted up. A faulty connection can lead to faulty input or output.
- 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 GOT or screw damage.

- When mounting the communication board, take care not to become injured by the components that are installed or surrounding materials.
- When mounting the communication board, remove any static electricity accumulated on your body before engaging in work. Otherwise, this may result in damage to the board.

[WIRING PRECAUTIONS]

 Plug the communication cable into the connector of the connected module and tighten the connector mounting screws in the specified torque range. Undertightening can cause a short circuit or malfunction. Overtightening can cause a short circuit or malfunction due to the damage of the screws or module.

[STARTUP AND MAINTENANCE PRECAUTIONS]

• Before starting cleaning, always shut off GOT power. Not doing so can cause a module failure or malfunction.

- 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 module directly. Doing so can cause a module malfunction or failure.
- Always secure the cables connected to the module, e.g. run them in conduits or clamp them.Not doing so can cause module 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 module. Doing so can cause module 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 module.

Failure to do so may cause a failure or malfunctions of the module.

[DISPOSAL PRECAUTIONS]

When disposing of the product, handle it as industrial waste.

<u>Manuals</u>

Relevant Manuals

For relevant manuals, refer to the PDF manual stored within the drawing software.

1. Overview

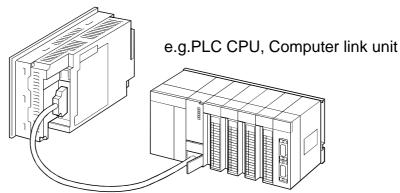
This user's manual describes the A9GT-50WRS2 serial communication board (hereafter referred to as the "A9GT-50WRS2")/A9GT-50WRS4 serial communication board (hereafter referred to as the "A9GT-50WRS4").

Fitted to the A956WGOT, the A9GT-50WRS2/A9GT-50WRS4 can be connected with the PLC CPU, computer link unit, microcomputer, other's PLC, or the like by using RS-232C/RS-422 connector for peripheral.

The A9GT-50WRS2 is a communication board used for RS-232C communication.

The A9GT-50WRS4 is a communication board used for RS-422 communication.

A956WGOT + A9GT-50WRS2/A9GT-50WRS4



For details of the system configuration, refer to the GOT-A900 Series User's Manual(GT Works Version5/GT Designer Version5 compatible Connection System Manual)

After opening the box, check that the following items are present.

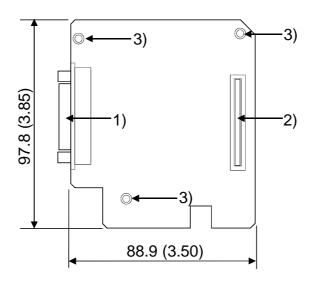
Description	Quantity
A9GT-50WRS2 or A9GT-50WRS4	1
Communication board Mounting screw	3

2. Specifications

Item	Specifications		
nem	A9GT-50WRS2	A9GT-50WRS4	
Communication connector	9-pin D-sub(male) inch screw DDK brand (17LE-23090-27(D3CC))	25-pin D-sub(female) meter screw DDK brand (17L-10250-27(D3AC))	
Internal current consumption (DC5V) [mA]	12.4	17	
weight [g] (lb)	42 (0.09)	48 (0.11)	

2.1 Specifications of the A9GT-50WRS2/A9GT-50WRS4

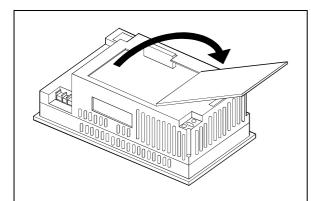
3. Name of the Parts and Outline Dimension Drawing



Unit:mm(inch)

Number	Name	Description
1)	Communication cable	Connector for connection of
	connection connector	communication cable
2)	Connector	Connector for connection to the GOT
3)	Communication board mounting screw hole	Screw hole for mounting to the GOT

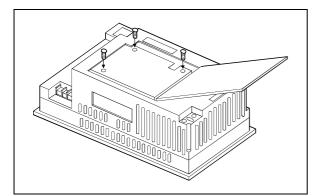
4. Installation Procedure



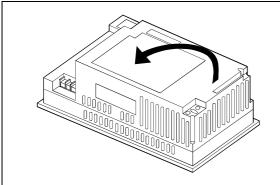
a) Insert the A9GT-50WRS2 /A9GT-50WRS4. b) Push down. 1) Open the slot cover on the back of the A956WGOT.

 Mount the A9GT-50WRS2 or the A9GT-50WRS4 in the slot for mounting a communication board. (Align the hole for the attachment screw on the transmission board with

screw on the transmission board with the hole for the attachment screw on the transmission board of the GOT main module, then attach.)



 Fix by tightening the mounting screws of the A9GT-50WRS2 or the A9GT-50WRS4 within the specified torque range (36 to 48 N • cm).



4) Close the slot cover.

To remove the unit, reverse the installation procedure.

Be careful not to touch the board inside the GOT main body by hand when mounting the A9GT-50WRS2 or the A9GT-50WRS4.

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/Regior	Sales office/Tel	Country/Regior	Sales office/Tel
U.S.A	Mitsubishi Electric Automation Inc. 500 Corporate Woods Parkway Vernon Hills, IL 60061 Tel : +1-847-478-2100	Hong Kong	Ryoden Automation Ltd. 10th Floor, Manulife Tower, 169 Electric Road, North Point, HongKong Tel : +852-2887-8870
Brazil	MELCO-TEC Rep. Com.e Assessoria Tecnica Ltda. AV. Paulista 1471, Conj. 308, Sao Paulo City, Sao Paulo State, Brazil	China	Ryoden Automation Shanghai Ltd. 3F Block5 Building Automation Instrumentation Plaza 103 Cao Bao Ro Shanghai 200233 China Tel : +86-21-6475-3228
Germany	Tel : +55-11-283-2423 Mitsubishi Electric Europe B.V. German Branch	Taiwan	Setsuyo Enterprise Co., Ltd. 6F., No.105 Wu-Kung 3rd.RD, Wu-Ku Hsiang, Taipei Hsine, Taiwan
U.K	Gothaer Strasse 8 D-40880 Ratingen, GERMANY Tel : +49-2102-486-0 Mitsubishi Electric Europe B.V. UK	Korea	Tel : +886-2-2299-2499 HAN NEUNG TECHNO CO.,LTD. 1F Dong Seo Game Channel Bldg., 660-11, Deungchon-dong Kangsec-ku,
UIX	Branch Travellers Lane, Hatfield, Herts., AL10 8XB,UK Tel : +44-1707-276100	Singapore	Seoul, Korea Tel : +82-2-3660-9552 Mitsubishi Electric Asia Pte, Ltd. 307 ALEXANDRA ROAD #05-01/02,
Italy	Mitsubishi Electric Europe B.V. Italian Branch Centro Dir. Colleoni, Pal. Perseo-Ingr.2 Via Paracelso 12, 20041 Agrate B., Milano, Italy Tel : +39-039-6053344	Thailand	MITSUBISHI ELECTRIC BUILDING SINGAPORE 159943 Tel : +65-6473-2308 F. A. Tech Co.,Ltd. 898/28,29,30 S.V.City Building,Office Tower 2,Floor 17-18 Rama 3 Road,
Spain	Mitsubishi Electric Europe B.V. Spanish Branch Carretera de Rubi 76-80 08190 - Sant Cugat del Valles, Barcelona, Spain Tel : +34-93-565-3131	Indonesia	Bangkpongpang, Yannawa, Bangkok 10120 Tel : +66-2-682-6522 P.T. Autoteknindo SUMBER MAKMUR Jl. Muara Karang Selatan Block A Utar No.1 Kav. No.11 Kawasan Industri/
France	Mitsubishi Electric Europe B.V. French Branch 25 Boulevard des Bouvets, F-92741 Nanterre Cedex, France TEL: +33-1-5568-5568	India	Pergudangan Jakarta - Utara 14440 Tel : +62-21-663-0833 Messung Systems Put,Ltd. Electronic Sadan NO:111 Unit No15, M.I.D.C BHOSARI,PUNE-411026
South Africa	Circuit Breaker Industries LTD. Tripswitch Drive, Elandsfontein Gauteng, South Africa Tel : +27-11-928-2000	Australia	Tel : +91-20-712-2807 Mitsubishi Electric Australia Pty. Ltd. 348 Victoria Road, PostalBag, No 2, Rydalmere, N.S.W 2116, Australia Tel : +61-2-9684-7777

MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE : 1-8-12, OFFICE TOWER Z 14F HARUMI CHUO-KU 104-6212, JAPAN NAGOYA WORKS : 1-14, YADA-MINAMI 5-CHOME, HIGASHI-KU, NAGOYA, JAPAN

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