

GT01-RS4-M Serial Multi-Drop Connection Unit

User's Manual



This manual describes the specifications of the product. Before use, read this manual and manuals of relevant products fully to acquire proficiency in handling and operating the product. Make sure to learn all the product information, safety information and precautions

And, 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. Registration

The company name and the product name to be described in this manual are the registered trademarks or trademarks of each company.

Effective Sen 2021

Specifications are subject to change without notice

Safety Precaution (Read these precautions before using.)

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 "WARNING" and "CALITION"

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.

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

DESIGN PRECAUTIONS

Some failures of the Multi-Drop Connection Unit or cable may keep the outputs on or off. An external monitoring circuit should be provided to check for output signal

which may lead to a serious accident Not doing so can cause an accident due to false output or malfunction.

- If a communication fault (including cable disconnection) occurs during monitoring on the GOT, communication between the GOT and PLC CPU is suspended and the GOT becomes inoperative. A system where the GOT is used should be configured to perform an significant operation to the system by using the switches of a device other than the GOT on the assumption that a GOT communication fault will occur.
- Not doing so can cause an accident due to false output or malfunction. Do not use the Multi-Drop Connection Unit as the warning device that may cause a serious accident. An independent and redundant hardware or mechanical interlock is required t

configure the device that displays and outputs serious warning. Failure to observe this instruction may result in an accident due to incorrect output or malfunction

DESIGN PRECAUTIONS

Do not bundle the control and communication cables with main-circuit, pow or other wiring Run the above cables separately from such wiring and keep them a minimu of 100mm (3.94in.) apart.Not doing so noise can cause a malfunction

MOUNTING PRECAUTIONS **WARNING**

Be sure to shut off all phases of the external power supply used by the system before mounting or removing the Multi-Drop Connection Unit to/from the nanel Not doing so can cause the unit to fail or malfunction

MOUNTING PRECAUTIONS AWARNING

When installing the battery wear an earth band etc. to avoid the static electricity The static electricity can cause the unit to fail or malfunction

Use the Multi-Drop Connection Unit in the environment that satisfies the genera specifications described in this manual. Not doing so can cause an electric shock. fire malfunction or product damage or deterioration

VIRING PRECAUTIONS

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 of malfunctions

- Please make sure to ground EG terminal of the Multi-Drop Connection Unit power supply section by applying 100 or less which is used exclusively for the GOT. No doing so may cause an electric shock or malfunction
- Correctly wire the Multi-Drop Connection Unit power supply section after confirming the rated voltage and terminal arrangement of the product. Not doing so can cause a fire or failure
- Tighten the terminal screws of the Multi-Drop Connection Unit power supply section in the specified torque range. Undertightening can cause a short circuit of malfunction
- Overtightening can cause a short circuit or malfunction due to the damage of the screws or the Multi-Drop Connection Unit.
- Exercise care to avoid foreign matter such as chips and wire offcuts entering the Multi-Drop Connection Unit. Not doing so can cause a fire. failure or malfunction.

WIRING PRECAUTIONS **ACAUTION**

- Plug the communication cable into the connector of the connected unit and tighter the mounting and terminal 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 unit

STARTUP/MAINTENANCE PRECAUTIONS

- Do not disassemble or modify the Multi-Drop Connection Unit.
 - Doing so can cause a failure, malfunction, injury or fire. Do not touch the conductive and electronic parts of the Multi-Drop Connection Unit directly
- Doing so can cause a Multi-Drop Connection Unit malfunction or failure. The cables connected to the Multi-Drop Connection Unit must be run in ducts of
- clamped. Not doing so can cause the Multi-Drop Connection Unit or cable to be damaged due to the dangling, motion or accidental pulling of the cables or can cause a
- malfunction due to a cable connection fault. When unplugging the cable connected to the unit, do not hold and pull the cable
- portion. Doing so can cause the unit or cable to be damaged or can cause a malfunction due to a cable connection fault.
- Do not drop or apply any impact to the battery. If any impact has been applied, discard the battery and never use it. The battery may be damaged by the drop or impact.
- Before touching the unit, always touch grounded metal, etc. to discharge static electricity from human body, etc
- Not doing so can cause the Multi-Drop Connection Unit to fail malfunction

DISPOSAL PRECAUTIONS **ACAUTION**

When disposing of the product, handle it as industrial waste

TRANSPORTATION RECAUTIONS

Make sure to transport the Multi-Drop Connection Unit 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 this manual, as they are precision devices. Failure to do so may cause the unit to fail Check if the unit operates correctly after transportation.

Compliance with EC directive (CE Marking)

This note does not guarantee that an entire mechanical module produced in accordance with the contents of this note will comply with the following standards. Compliance to EMC directive for the entire mechanical module should be checked by the user / manufacturer. For more details please contact the local Mitsubishi Electric sales site

Attention

· This product is designed for use in industrial applications.

Requirement for Compliance with EMC directive

The following products have shown compliance through direct testing (to the identified standards) and design analysis (forming a technical construction file) to the European Directive for Electromagnetic Compatibility when used as directed by the appropriate documentation

- · This product is designed for use in industrial applications
- Type: Graphic operation terminal Models: GOT2000 series

Standard		Remark
EN61131-2 : 2007 Programmable EMI		Compliance with all relevant aspects of the standard. (Radiated Emissions)
controllers- Equipment, requirement and tests	EMS	Compliance with all relevant aspects of the standard. (ESD, RF electromagnetic field, EFTB, Surge, RF conducted disturbances and Power frequency magnetic field)

For more details please contact the local Mitsubishi Electric sales site. For details of CE marking, refer to the following.

→ GOT2000 Series User's Manual (Hardware)

Compliant with the UKCA marking

Requirements for compliance with the UKCA marking are the same with the EC Directives (CE marking).

Associated Manuals

The following manuals are relevant to this product. When these loose manuals are required, please consult with our local distributor.

Manual Name	Manual Number (Model Code)	Description
GOT2000 Series Connection Manual (Mitsubishi Electric Products) For GT Works3 Version1	SH-081197ENG (1D7MJ8)	Describes system configurations of connection methods applicable to GOT2000 series and cable creation methods
GOT1000 Series Connection Manual 1/3, 2/3, 3/3	SH-080532ENG (1D7M26)	Describes system configurations of connection methods applicable to GOT1000 series and cable creation methods
GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3	SH-080868ENG (1D7MC2)	Describes system configurations of connection methods applicable to GOT1000 series and cable creation methods
GT Designer2 Version2 Basic Operation/Data Transfer Manual (For GOT1000 Series)	SH-080529ENG (1D7M24)	Describes methods of the GT Designer2 installation operation, basic operation for drawing and transmitting data to GOT1000 series
GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) 1/3, 2/3, 3/3	SH-080530ENG (1D7M25)	Describes specifications and settings of the object functions used in GT Designer2
GT Designer3 Version1 Screen Design Manual (For GOT1000 Series) (Fundamentals) 1/2, 2/2	SH-080866ENG (1D7MB9)	Describes methods of the GT Designer3 installation operation, basic operation for drawing and transmitting data to GOT1000 series
GT Designer3 (GOT2000) Screen Design Manual	SH-081220ENG (1D7ML9)	Describes methods of the GT Designer3 (GOT2000) installation operation, basic operation for drawing and transmitting data to GOT2000 series

Bundled Items

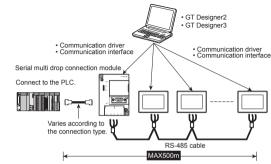
Included Item	Number of Items
GT01-RS4-M main unit	1
Power supply cable with connectors	1
GT01-RS4-M Serial Multi-Drop Connection Unit USER'S MANUAL (this manual)	1

1. System Configuration

1.1 System Configuration

GOT multi-drop connection is a communication method for 1:N communication by connecting multiple GOTs to one PLC, using the GT01-RS4-M serial multi-drop connection module For details of the system configuration, refer to the GOT1000 Series Connection

Manual



1.2 Compatible PLC

For PLCs compatible with the GOT multi-drop connection, refer to the GOT1000 Series Connection Manual

1.3 Compatible GOT

The followings are the GOTs compatible with the GOT multi-drop connection. For the confirmation method of the hardware version, refer to the User's Manual of each GOT.

GOT	Hardware version
GOT2000 series ^{*1}	Version A or later
GT1600, GT1500	Version A or later
GT1455-QTBD, GT1450-QLBD GT1455-QTBDE, GT1450-QLBDE	Version A or later
GT1155-QTBD	Version C or later
GT1155-QSBD, GT1150-QLBD	Version F or later
GT1055-QSBD, GT1050-QBBD	Version C or later
GT1045-QSBD, GT1040-QBBD	Version A or later
GT1030-LBD/LWD, GT1030-LBDW/LWDW GT1030-HBD/HWD, GT1030-HBDW/HWDW	Version B or later
GT1020-LBD/LWD, GT1020-LBDW/LWDW	Version E or later

*1 For details on the GOT2000 series GOTs compatible with the GOT multi-drop connection, refer to the GOT2000 Series Connection Manuals

1.4 Compatible drawing software version

<GOT1000 series>

GT Designer2 Version2 (Ver.2.93X or later)

GT Designer3 Version 1 1.01B or later (GT16 and GT15: Ver.1.14Q or later. GT14: Ver 1 37P or later) <GOT2000 series>

With GT Designer3 (GOT2000), the standard monitor OS, communication drivers, and communication parameters cannot be written to the multi-drop connection module

To use the GOT multi-drop connection with GOT2000, write the standard monitor OS, communication drivers, and communication parameters with GT Designer3 (GOT1000) (Version 1.14Q or later).

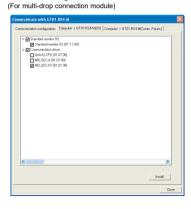


2. Outline Procedure

The outline procedure is shown below.

- GT11 installation follows.
- 1) Install the OS.
- Install the communication driver of the PLC connected to the multi-drop connection module.
- Install the communication driver (multi-drop (Slave)) to the GOT.
- For details on the installation method, refer to GT Designer2 Version2 Basic Operation/Data Transfer Manual or GT Designer3 Version1 Screen Design Manual (For GOT1000 Series).

- For GT Designer2



- For GT Designer3 (For multi-drop connection module^{*1})

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*1 With GT Designer3 (GOT2000), the standard monitor OS and communication drivers cannot be written to the multi-drop connection module. To use the GOT multi-drop connection with GOT2000, write the standard monitor OS and communication drivers with GT Designer3 (GOT1000) (Version 1.14Q or later).

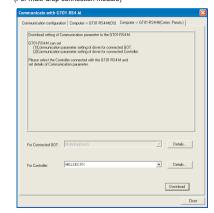
2) Make sure that the OS is installed.

Check GT Designer2 or GT Designer3 drive information to know if the OS is properly installed in the GOT.

For details, refer to GT Designer2 Version2 Basic Operation/Data Transfer Manual or GT Designer3 Version1 Screen Design Manual (For GOT1000 Series). 3) Set the communication interface.

- For the multi-drop connection module, set the communication interface in the communication setting with GT01-RS4-M of GT Designer2 or GT Designer3.
- For the GOT, set the communication interface in the Communication Settings of GT Designer2 or GT Designer3.
- For details, refer to GT Designer2 Version2 Basic Operation/Data Transfer Manual or GT Designer3 Version1 Screen Design Manual (For GOT1000 Series).

- For GT Designer2 (For multi-drop connection module)

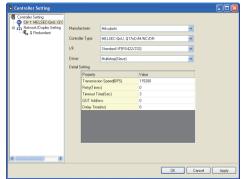


State Information P La Conviction Strips Print The Strips

- For GT Designer3

(For multi-drop connection module*1)





*1 With GT Designer3 (GOT2000), the communication parameters cannot be written to the multi-drop connection module. To use the GOT multi-drop connection with GOT2000, write the communication parameters with GT Designer3 (GOT1000) (Version 1.14Q or later).

4) Download the project data.

For how to download project data, refer to GT Designer2 Version2 Basic Operation/Data Transfer Manual or GT Designer3 Version1 Screen Design Manual (For GOT1000 Series).

5) Connect the cable.

For details on the cable connection, refer to the GOT2000/GOT1000 Series Connection Manuals.

(For GOT)

(For GOT)

Details		I/F:
		Driver:
		Detail Setting
		Property
		Transmission
		Rety(Times)
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		Delay Time(r
	< >	
Write		

3. Specifications

2.4 Concret Specifications

Item				Specifications			
Operating ambient temperature	0 to 55°C	0 to 55°C					
Storage ambient temperature	-20 to 60°C	20 to 60°C					
Operating/Storage ambient humidity	10 to 90% RH, non-c	ondensing (The wet bull	b temperature is 39	°C or less.)			
			Frequency	Acceleration	Half-amplitude	Sweep Count	
Vibration resistance		Installed with DIN	10 to 57Hz	-	0.035mm		
	Conforms to JIS C60068-2-6	rail	57 to 150Hz	4.9m/s ²	-	10 times each in X, Y and Z directions	
	00000-2-0	Directly installed	10 to 57Hz	-	0.075mm	(Total 80 minutes for each)	
			57 to 150Hz	9.8m/s ²	-	7	
Shock resistance	Conforms to JIS C60	068-2-27 (147 m/s ² , 11	ms, Sine half-wave	pulse, 3 times each	in the X, Y, and Z direction	ons)	
Operating atmosphere		black, corrosive gas, fla applies for storage as w		cessive amounts of	electro conductive dust p	particles and must not be placed in	
Operating altitude	2000m (6562 ft) max	*1					
Cooling method	Self-cooling						
External dimensions (D×W×H)	90×65×90mm						
Weight	Approx. 0.3kg						
Installation method	Using DIN rail or fixe	d with screws					
Exterior color (Case)	Standard color of Mit	subishi Electric (Black: c	corresponding to N	-0230-BG)			
Standard	Conforms to CE						

*1 Cannot be used under pressures higher than the atmospheric pressure. Failure to observe this instruction may cause the unit to fail.

3.2 Communication Specifications

lt	em	I/F1 (RS-422) I/F2 (RS-232)		I/F3 (RS-485)	I/F4 (USB)
Connecti configuratio		1:1		1:N	1:1
	Transmissi on method	RS-422 1ch	RS-232 1ch	RS-485 1ch	USB device 1ch
Transmiss	Transmissi on speed	115, 200/57, 600/38, 400/19, 200/9,		Full Speed 12Mbps	
standard	Insulation method	Photocoupler insulation			
	Connector	D-sub 9-pin (female)	D-sub 9-pin (male)	Terminal block (attach/detach type)	Mini-B
Transmissi	on distance	30m or less	3m or less	500m (max.) (maximum overall extension length of the system)	
Number of can be con	f GOTs that nected	1		16 (max.)	1
Communication method		method Full duplex		Half duplex and full duplex (Can be selected depending on the wiring)	
Application		For PLC connection (Cannot be used simultaneously with I/F2)	For PLC connection (Cannot be used simultaneously with I/F1)	For multi-drop connection	PC communication (OS installation)

3.3 Power Supply Specifications

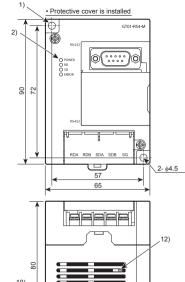
Item	Specifications
Input power supply voltage	24VDC (+10%, -15%)
Fuse (built-in, not exchangeable)	1A
Power consumption	3.36W or less (140mA/24VDC)
Inrush current	14A or less (24VDC, 2ms)
Dielectric withstand voltage	500VAC for 1 minute (across power supply terminals and earth)
Insulation resistance	$10M\Omega$ or larger by insulation resistance tester (across power supply terminals and earth)
Grounding	Class D grounding (100 Ω or less), To be connected to the panel when grounding is not possible

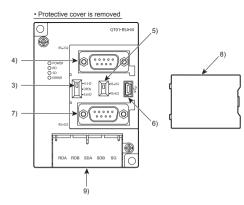
3.4 LED Light Specifications

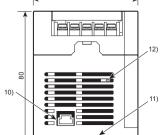
LED Name	Status	Description	
POWER	Lit	Power is properly supplied.	
POWER	Not lit	Power is not properly supplied.	
SD	Lit	Sending the data to PLC	
30	Not lit	Not sending the data to PLC	
RD	Lit	Receiving the data from PLC	
RD	Not lit	Not receiving the data from PLC	
	Not lit	No error	
ERROR*1	Lit in red	Communication error with PLC	
	Blinking in red	Multi-drop communication error	-

*1 For details of corrective actions, refer to Chapter 7 Troubleshooting.

4. External Dimensions and Part name







No	Name		Specifications
1)	Installation hole for the main unit		Installation hole
		POWER	Lit in green when the power is properly supplied.
2)	LED	SD	Lit in green when the data is being sent to PLC.
2)		RD	Lit in green when the data is being received from PLC.
		ERROR	Lit or blinking depending on the status.
3)	Terminating resistor selector		Can be selected among 110 Ω , OPEN and 330 Ω (set to "OPEN" by default)
4)	Connector for PLC communication (for	RS-232 connection)	D-sub 9-pin (male)
5)	Connector selection switch for PLC communication		Switch for selecting RS-422 or RS-232 (set to "RS-422" by default)
6)	USB port For connecting to a personal computer (for changing the communication driver)		For connecting to a personal computer (for changing the communication driver)
7)	Connector for PLC communication (for RS-422 connection) D-sub 9-pin (female)		D-sub 9-pin (female)
8)	Protective cover		Protect unused D-sub connector, USB port and switches.
9)	Terminal block for the serial multi-drop	communication	Terminal block 5-pin (with a protective cover) M3 Tightening torque 0.5 to 0.6N.m
10)	Power supply connector		24VDC power supply connector insertion point (A dedicated cable is included.)
11)	Slider for installing the DIN rail		-
12)	Mode selection switch (Slide switch)		Do not operate. (Set to right by default. When set to left, the module does not operate normally.)

5. Installation

5.1 Installed with DIN Rail

Install the multi-drop connection module with its hook (1 place) using the DIN rail. • Applicable DIN rail DIN46277 (width: 35mm) (Install the DIN rail with screws at intervals of 150mm.)

5.2 Directly Installed to Panel

Install the multi-drop connection module to the panel using 64.5mm holes (2 places).

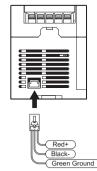
5.3 Caution for compliance with EMC Directive

Programmable logic controllers are open-type devices that must be installed and used within conductive control boxes. Please use the Multi-Drop Connection Unit while installed in conductive shielded control boxes. Please secure the control box lid to the control box (for conduction). Installation within a control box greatly affects the safety of the system and aids in shielding noise from the Multi-Drop Connection Unit.

6. Wiring

6.1 Power Supply Wiring

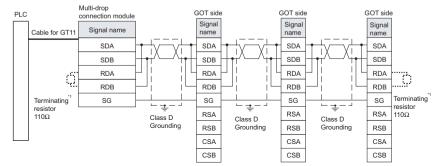
Connect the power supply cable with connectors (included) and the 24VDC terminal of the external power supply.



6.2 Wiring and Terminating Resistor Setting

6.2.1 For 1 pair wiring

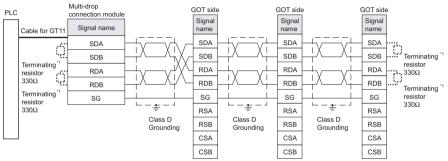
Make sure to ground a twisted pair cable by applying Class D Grounding (100 Ω or less).



*1 The terminating resistor (110Ω) is built in the multi-drop connection module and GOT (GT21, GT10, GT11, or GT14). Make sure to set it on both ends of the line. For GT27, GT25, GT15, and GT16, external wiring is required. Set the terminating resistors of the GOT that is not at the end of the line to "OPEN".

6.2.2 For 2 pair wiring

Make sure to ground a twisted pair cable by applying Class D Grounding (100 Ω or less).



*1 The terminating resistors (330Ω) are built in the multi-drop connection module and GOT (GT21, GT10, GT11, or GT14). Make sure to set them on both ends of the line. For GT27, GT25, GT15, and GT16, external wiring is required. Set the terminating resistors of the GOT that is not at the end of the line to "OPEN".

7. Troubleshooting

In the case where ERROR LED is lit or blinking, check the following items.

Status of ERROR LED	Description
Lit in red	Check the following items. Check if the power supply status is normal or not. Check the wiring of the connection cable. Install the correct communication driver. Check if the communication interface to which the cable is connected is correct or not. Check the setting of the RS-422/RS-232 selector switch.
Blinking in red	 Check the following items. Check that the Mode selection switch is set to the right. The OS may be faulty. Install the standard OS and communication driver from GT Designer2 or GT Designer3^{*1} to the multi-drop module again.

*1 With GT Designer3 (GOT2000), the standard monitor OS and communication drivers cannot be written.

To use the GOT multi-drop connection with GOT2000, write the standard monitor OS and communication drivers with GT Designer3 (GOT1000) (Version 1.14Q or later).

「电器电子产品有害物质限制使用标识要求」的表示方式



Note: This symbol mark is for China only.

含有有害6物质的名称,含有量,含有部品

本产品中所含有的有害6物质的名称,含有量,含有部品如下表所 示。

产品中有害物质的名称及含量

Î	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)	
		外壳	0	0	0	0	0	0	
	显示器 GOT	印刷基板	×	0	0	0	0	0	
	001	电缆	\times	0	0	0	0	0	

本表格依据SJ/T 11364的规定编制。

- 〇:表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572 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/T 26572规定的限量要求。

Referenced Standard: GB/T15969.2 (Requirement of Chinese standardized law) This manual confers no industrial property rights or any rights of any other kind, nor does it confer any patent licenses. Mitsubishi Electric Corporation cannot be held responsible for any problems involving industrial property rights which may occur as a result of using the contents noted in this manual.

Warranty

Exclusion of loss in opportunity and secondary loss from warranty liability Regardless of the gratis warranty term, Mitsubishi shall not be liable for compensation to:

- Damages caused by any cause found not to be the responsibility of Mitsubishi.
- (2) Loss in opportunity, lost profits incurred to the user by Failures of Mitsubishi products.
- (3) Special damages and secondary damages whether foreseeable or not, compensation for accidents, and compensation for damages to products other than Mitsubia products.
- (4) Replacement by the user, maintenance of on-site equipment, start-up test run and other tasks.

⚠ 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 Mitsubish Electric.
- This product has been manufactured under strict quality control. However when installing the product where major accidents or losses could occur if the
- when installing the product where major accidents or losses could occur if the product fails, install appropriate backup or failsafe functions in the system.

MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE : TOKYO BUILDING, 2-7-3 MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN



GT01-RS4-M When installing the battery wear an earth band etc. to avoid the static electricity. The static electricity can cause the unit to fail or malfunction. Serial Multi-Drop Connection Unit MOUNTING PRECAUTIONS **User's Manual** Use the Multi-Drop Connection Unit in the environment that satisfies the genera specifications described in this manual. Not doing so can cause an electric shock fire, malfunction or product damage or deterioration. Manual Number JY997D35801J GOTIDDO Date Sep. 2021 VIRING PRECAUTIONS 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 of This manual describes the specifications of the product. Before use, read this Please make sure to ground FG terminal of the Multi-Drop Connection Unit power supply section by applying 100 or less which is used exclusively for the GOT. No doing so may cause an electric shock or malfunction. Correctly wire the Multi-Drop Connection Unit power supply section after confirming the rated voltage and terminal arrangement of the product. Not doing so can cause a fire or failure. manual and manuals of relevant products fully to acquire proficiency in handling and operating the product. Make sure to learn all the product information, safety information, and precautions. And, 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. Registration The company name and the product name to be described in this manual are the registered trademarks or trademarks of each company. malfunction Effective Sep 2021 Specifications are subject to change without notice. © 2009 MITSUBISHI ELECTRIC CORPORATION Safety Precaution (Read these precautions before using.) IRING PRECAUTIONS 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 "WARNING" and "CAUTION". Indicates that incorrect handling may cause hazardou conditions, resulting in death or severe injury. STARTUP/MAINTENANCE PRECAUTIONS WARNING Indicates that incorrect handling may cause hazardou conditions, resulting in medium or slight personal inju or physical damage. Depending on circumstances, procedures indicated by "CA linked to serious results. In any case, it is important to follow the directions for usage. dures indicated by "CAUTION" may also be nned Some failures of the Multi-Drop Connection Unit or cable may keep outputs on or off. An external monitoring circuit should be provided to check for output signa which may lead to a serious accident. Not doing so can cause an accident due to false output or malfunction If a communication fault (including to haise output on manufactor). If a communication fault (including to haise output occurs during monitoring on the GOT, communication between the GOT and PLC CPU is suspended and the GOT becomes inoperative. A system where the GOT is used should be configured to perform any significant operation to the system by using the switches of a device other than the GOT on the assumption that a GOT communication fault will occur. Not doing so can cause an accident due to false output or malfunction. Do not use the Multi-Drop Connection Unit as the warning device that ma cause a serious accident. An independent and redundant hardware or mechanical interlock is required to configure the device that displays and outputs serious warning. Failure to observe this instruction may result in an accident due to incorrec output or malfunction. When disposing of the product, handle it as industrial waste TRANSPORTATION RECAUTIONS DESIGN PRECAUTIONS Do not bundle the control and communication cables with main-circuit, pow or other wiring. Run the above cables separately from such wiring and keep them a minir of 100mm (3.94in.) apart.Not doing so noise can cause a malfunction. MOUNTING PRECAUTIONS / WARNING

Be sure to shut off all phases of the external power supply used by the system before mounting or removing the Multi-Drop Connection Unit to/fro system before mounting or removing une multi-prop the panel. Not doing so can cause the unit to fail or malfunction.

2. Outline Procedure

The outline procedure is shown below GT11 installation follows.

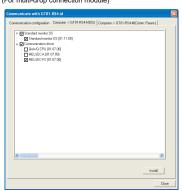
1) Install the OS.

- · Install the communication driver of the PLC connected to the multi-drop connection module
- Install the communication driver (multi-drop (Slave)) to the GOT.
 For details on the installation method, refer to GT Designer2 Version2 Basic Operation/Data Transfer Manual or GT Designer3 Version1 Screen Design Manual (For GOT1000 Series)

(For GOT)

Write Mode

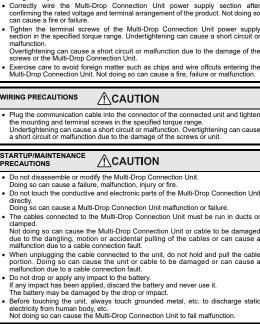
- For GT Designer2 (For multi-drop connection module)



(For GOT) Project Upload > Computer I OS Install > GOT Boot OS Insta Upload -> Verity Standard monitor D! andard monitor OS minurication driver A/QinA/Q CPU, QJ71C2 V/71QC24, MELDAS C6 /771C24/UC24 (D4 03.00 ELSECFYC (04.03.00) `Link(G4) (04.03.00) `LisERVO J3J25/M (D4 biblop(Slave) (04.07.00) Joer area size: kbyte kbyte Used Empty User area size: kbyte Furth area size ONTROLLER (04.03.00 GT11"-Q(320k GOT Type: 150 kbste Instal Get Latest

- For GT Designer3

(For multi-drop connection module^{*1}) cate with GT01-RS4-M te(OS) 📑 GT01-RS4-M Write(Comm. Param.) Standard monitor OS



Make sure to transport the Multi-Drop Connection Unit main unit and/or releval unit(s) in the manner they will not be exposed to the impact exceeding the impa-resistance described in the general specifications of this manual, as they ar precision devices. Failure to do so may cause the unit to fail. Check if the unit operates correctly after transportation.

Compliance with EC directive (CE Marking) This note does not guarantee that an entire mechanical module produced in accordance with the contents of this note will comply with the following standards. Compliance to EMC directive for the entire mechanical module should be checked by the user / manufacturer. For more details please contact the local Mitsubishi Electric

Attention This product is designed for use in industrial applications

Requirement for Compliance with EMC directive

The following products have shown compliance through direct testing (to the identified standards) and design analysis (forming a technical construction file) to the European Directive for Electromagnetic Compatibility when used as directed by the appropriate documentation.

This product is designed for use in industrial applications
 Type: Graphic operation terminal
 Models: GOT2000 series

Remark Standard Compliance with all relevant aspects of the standard (Radiated Emissions) EN61131-2 : 2007 EMI Programmable controllers-Equipment, requirement and tests Compliance with all relevant aspects of the standard. (ESD, RF electromagnetic field, EFTB, Surge, RF conducted disturbances and Power frequency EMS magnetic field) For more details please contact the local Mitsubishi Electric sales site For details of CE marking, refer to the following. \rightarrow GOT2000 Series User's Manual (Hardware)

Compliant with the UKCA marking

nts for compliance with the UKCA marking are the same with the EC Directives (CE marking).

Associated Manuals

re relevant to this product. When these loose manuals are required, please consult with our local distributor. e followina

Manual Name	Manual Number (Model Code)	Description
GOT2000 Series Connection Manual (Mitsubishi Electric Products) For GT Works3 Version1	SH-081197ENG (1D7MJ8)	Describes system configurations of connection methods applicable to GOT2000 series and cable creation methods
GOT1000 Series Connection Manual 1/3, 2/3, 3/3	SH-080532ENG (1D7M26)	Describes system configurations of connection methods applicable to GOT1000 series and cable creation methods
GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3	SH-080868ENG (1D7MC2)	Describes system configurations of connection methods applicable to GOT1000 series and cable creation methods
GT Designer2 Version2 Basic Operation/Data Transfer Manual (For GOT1000 Series)	SH-080529ENG (1D7M24)	Describes methods of the GT Designer2 installation operation, basic operation for drawing and transmitting data to GOT1000 series
GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) 1/3, 2/3, 3/3	SH-080530ENG (1D7M25)	Describes specifications and settings of the object functions used in GT Designer2
GT Designer3 Version1 Screen Design Manual (For GOT1000 Series) (Fundamentals) 1/2, 2/2	SH-080866ENG (1D7MB9)	Describes methods of the GT Designer3 installation operation, basic operation for drawing and transmitting data to GOT1000 series
GT Designer3 (GOT2000) Screen Design Manual	SH-081220ENG (1D7ML9)	Describes methods of the GT Designer3 (GOT2000) installation operation, basic operation for drawing and transmitting data to GOT2000 series

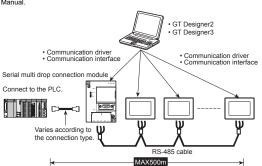
Bundled Items

Included Item	Number of Items
GT01-RS4-M main unit	1
Power supply cable with connectors	1
GT01-RS4-M Serial Multi-Drop Connection Unit USER'S MANUAL (this manual)	1

1. System Configuration

1.1 System Configuration

GOT multi-drop connection is a communication method for 1:N communication by connecting multiple GOTs to one PLC, using the GT01-RS4-M serial multi-drop connection module. For details of the system configuration, refer to the GOT1000 Series Connection



1.3 Compatible GOT

The followings are the GOTs compatible with the GOT multi-drop connection. For the confirmation method of the hardware version, refer to the User's Manual of each GOT.

GOT	Hardware version
GOT2000 series ^{*1}	Version A or later
GT16==, GT15==	Version A or later
GT1455-QTBD, GT1450-QLBD GT1455-QTBDE, GT1450-QLBDE	Version A or later
GT1155-QTBD	Version C or later
GT1155-QSBD, GT1150-QLBD	Version F or later
GT1055-QSBD, GT1050-QBBD	Version C or later
GT1045-QSBD, GT1040-QBBD	Version A or later
GT1030-LBD/LWD, GT1030-LBDW/LWDW GT1030-HBD/HWD, GT1030-HBDW/HWDW	Version B or later
GT1020-LBD/LWD, GT1020-LBDW/LWDW	Version E or later

*1 For details on the GOT2000 series GOTs compatible with the GOT multi-drop connection, refer to the GOT2000 Series Connection Manuals.

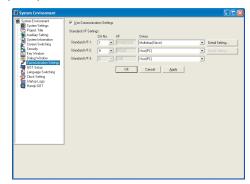
1.4 Compatible drawing software version

GOT1000 series> GT Designer2 Version 1 1.01B or later (GT16 and GT15: Ver.1.14Q or later, GT14: Ver.1.37P or later) GOT2000 series>

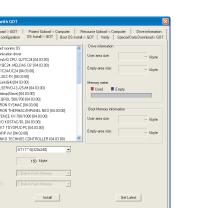
With GT Designer3 (GOT2000), the standard monitor OS, communication drivers, and communication parameters cannot be written to the multi-drop connection

module. To use the GOT multi-drop connection with GOT2000, write the standard monitor OS, communication drivers, and communication parameters with GT Designer3 (GOT1000) (Version 1.14Q or later).

(For GOT)



Controller Setting							
Controller Setting CH 1: MELSEC QnU, Q17							
Network/Duplex Setting	Manufacturer:	Mitsubishi		~			
	Controller Type:	MELSEC-QnU, Q1	MELSEC-QnU, Q17nD/M/NC/DR				
	L/F:	Standard I/F(RS42	2/232)	~			
	Driver:	Multidrop(Slave)		~			
	Detail Setting						
	Property		Value				
	Transmiss	ion Speed(BPS)	115200				
	Retry(Tim	es]	0				
	Timeout T	ime(Sec)	3				
	GOT Add	1015	0				
	Delay Tim	e(mo)	0				





- For GT Designer3

mmunicate with	GT01-RS4-M	
🐙 🖥 GT01-RS4-M V	/rite(OS) 🛛 🐺 🖥 GT01-RS4-M	Write(Comm. Param.)
For Connected GOT:	Multidrop(Host)	V Details
For Controller:	MELSEC-FX	Details
Points of caution-		
Communication p	arameter setting will be written int	o GT01-RS4-M.
(2) Communication for GT01-RS4-M.	n parameter setting of driver for G n parameter setting of driver for c r to be connected with GT01-BS-	ontroller connection can be set

- For GT Designer2 (For multi-drop connection module)

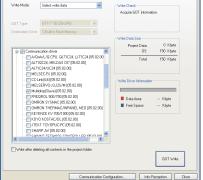
1.2 Compatible PLC

Serial multi drop connection module

For PLCs compatible with the GOT multi-drop connection, refer to the GOT1000 Series Connection Manual.

Manual.

□ 0+0-0 0 00 0000	GOT Type GT111102030448 の の の
Wite Committation Certifyastion. Close	KY-THERE KY-7XX41000, (55, 62, 00) KY-THERE KY-7XX41000, (55, 62, 00) THERE TO THERE KY-7XX41000, (55, 62, 00) THERE KY-7X41000, (55, 62, 00) SHAPP JAY (55, 62, 00) Wile after deleting all contents in the project todes Wile after deleting all contents in the project todes Communication C



💭 → 🗖 GOT Write 🗐 ← 🗖 GOT Read 📑 🗂 GOT Verify

O Boot DS

/rite Data: () Project Data, DS

*1 With GT Designer3 (GOT2000), the standard monitor OS and communication drivers cannot be written to the multi-drop connection module To use the GOT multi-drop connection with GOT2000, write the standard monitor OS and communication drivers with GT Designer3 (GOT1000) (Version 1.14Q or later)

2) Make sure that the OS is installed

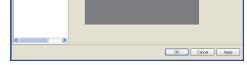
- Check GT Designer2 or GT Designer3 drive information to know if the OS is properly installed in the GOT. For details, refer to GT Designer2 Version2 Basic Operation/Data Transfer Manual or GT Designer3 Version1 Screen Design Manual (For GOT1000 Series).

3) Set the communication interface.

- For the multi-drop connection module, set the communication interface in the communication setting with GT01-RS4-M of GT Designer2 or GT Designer3.

For the GOT, set the communication interface in the Communication Settings of GT Designer2 or GT Designer3.
 For details, refer to GT Designer2 Version2 Basic Operation/Data Transfer Manual or GT Designer3 Version1 Screen Design Manual (For GOT1000 Series).





*1 With GT Designer3 (GOT2000), the communication parameters cannot be written to the multi-drop connection module. To use the GOT multi-drop connection with GOT2000, write the communication parameters with GT Designer3 (GOT1000) (Version 1.14Q or later).

4) Download the project data. For how to download project data, refer to GT Designer2 Version2 Basic Operation/Data Transfer Manual or GT Designer3 Version1 Screen Design Manual (For GOT1000 Series).

5) Connect the cable

For details on the cable connection, refer to the GOT2000/GOT1000 Series Connection Manuals.

Specification

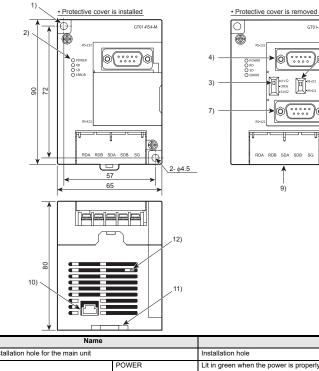
3.1 Gene	ltem									
Operating a										
temperature	emperature									
Storage am temperature		-20 to 60°C	to 60°C							
Operating/S ambient hu	Storage imidity	10 to 90% RH, non-	90% RH, non-condensing (The wet bulb temperature is 39°C or less.)							
					Frequency	Acceleration	Half-amplitude	Sweep Count		
		0	Installed with DIN	10 to 57Hz	-	0.035mm				
Vibration re	esistance	Conforms to JIS C60068-2-6			57 to 150Hz	4.9m/s ²	-	10 times each in X, Y and directions		
			Directly instal	lled	10 to 57Hz	-	0.075mm	(Total 80 minutes for each)		
			Directly motal	lieu	57 to 150Hz	9.8m/s ²	-			
Shock resis	stance	Conforms to JIS C6	0068-2-27 (147	′ m/s ² , 11	ms, Sine half-wave pu	se, 3 times ea	ich in the X, Y, and Z direct	ions)		
Operating a	atmosphere	Must be free of lamp direct sunlight. (This	black, corrosiv applies for stor	ve gas, fl rage as v	lammable gas, or exces vell)	sive amounts	of electro conductive dust	particles and must not be placed i		
Operating a	altitude	2000m (6562 ft) ma	к. ^{*1}							
Cooling me	ethod	Self-cooling								
External dir (D×W×H)	mensions	90×65×90mm								
Weight		Approx. 0.3kg								
Installation	method	Using DIN rail or fixe	ed with screws							
Exterior col	lor (Case)	Standard color of M	tsubishi Electric	c (Black:	corresponding to N-023	0-BG)				
Standard		Conforms to CE								
-	tem	Specifications I/F1 (RS-42	22)		I/F2 (RS-232)		I/F3 (RS-485)	I/F4 (USB)		
lt Connecti configuratio	on		22)		I/F2 (RS-232)	1:N	I/F3 (RS-485)	I/F4 (USB) 1:1		
Connecti	on on Transmissi on method	I/F1 (RS-42		RS-232		1:N RS-485 1		. ,		
Connecti	on Dr Transmissi on method Transmissi on speed	I/F1 (RS-42			1ch			1:1		
Connecti configuratio Transmiss ion	on on Transmissi on method Transmissi	I/F1 (RS-42 1:1 RS-422 1ch	400/19, 200/9, 6		1ch	RS-485 1	lch	1:1 USB device 1ch		
Connecti configuratio Transmiss ion	on on Transmissi on method Transmissi on speed Insulation	//F1 (RS-42 1:1 RS-422 1ch 115, 200/57, 600/38, 4	400/19, 200/9, 6 on	600/4, 80	1ch	RS-485 1 Termina type)	ich I block (attach/detach	1:1 USB device 1ch		
Connecti configuratic Transmiss ion standard Transmissio	on on Transmissi on method Transmissi on speed Insulation method Connector on distance	1/F1 (RS-42 1:1 RS-422 1ch 115, 200/57, 600/38, 4 Photocoupler insulatio	400/19, 200/9, 6 vn	600/4, 80	1ch 10 bps .pin (male)	RS-485 1 Termina type) 500m (n	lch	1:1 USB device 1ch Full Speed 12Mbps 		
Connecti configuratio Transmiss ion standard Transmissio Number o	on on Transmissi on method Transmissi on speed Insulation method Connector on distance of GOTs that	1/F1 (RS-42 1:1 RS-422 1ch 115, 200/57, 600/38, - Photocoupler insulatio D-sub 9-pin (female)	400/19, 200/9, 6 vn	600/4, 80 D-sub 9-	1ch 10 bps .pin (male)	Termina type) 500m (n extensior 16 (max.	ich i block (attach/detach nax.) (maximum overall length of the system))	1:1 USB device 1ch Full Speed 12Mbps 		
Connecti configuratic Transmiss ion standard Transmissic Number o can be con	on on Transmissi on method Transmissi on speed Insulation method Connector on distance of GOTs that	1/F1 (RS-42 1:1 RS-422 1ch 115, 200/57, 600/38, Photocoupler insulatio D-sub 9-pin (female) 30m or less	400/19, 200/9, 6 vn	600/4, 80 D-sub 9-	1ch 10 bps .pin (male)	Termina type) 500m (n extensior 16 (max. Half dupi	I block (attach/detach nax.) (maximum overall length of the system)) ex and full duplex selected depending on	1:1 USB device 1ch Full Speed 12Mbps Mini-B 		
Connecti configuratic Transmiss ion standard Transmissic Number o can be con	on Transmissi on method Transmissi on speed Insulation method Connector on distance of GOTs that nected	1/F1 (RS-4/ 1:1 RS-422 1ch 115, 200/57, 600/38, 4 Photocoupler insulatio D-sub 9-pin (female) 30m or less 1	- 100/19, 200/9, 6 m ; nultaneously	500/4, 80 D-sub 9- 3m or les	1ch 10 bps pin (male) ss connection . be used simultaneou	RS-485 1 Termina type) 500m (n extension 16 (max. Half dupi (Can be the wiring	I block (attach/detach nax.) (maximum overall length of the system)) ex and full duplex selected depending on	1:1 USB device 1ch Full Speed 12Mbps Mini-B 		
Connecti configuratic Transmiss ion standard Transmissia Number o can be com Communica	on on Transmissi on method Transmissi on speed Insulation method Connector on distance of GOTs that nected	I/F1 (RS-42 1:1 RS-422 1ch 115, 200/57, 600/38, Photocoupler insulatio D-sub 9-pin (female) 30m or less 1 Full duplex For PLC connection (Cannot be used sin	- 100/19, 200/9, 6 m ; nultaneously	500/4, 80 D-sub 9- 3m or les For PLC (Cannot	1ch 10 bps pin (male) ss connection . be used simultaneou	RS-485 1 Termina type) 500m (n extension 16 (max. Half dupi (Can be the wiring	I block (attach/detach nax.) (maximum overall n length of the system)) ex and full duplex selected depending on j)	1:1 USB device 1ch Full Speed 12Mbps Mini-B 1 PC communication		
Connecti configuratic Transmiss ion standard Transmissia Number o can be com Communica	on on Transmissi on method Transmissi on speed Insulation method Connector on distance of GOTs that nected	V/F1 (RS-42 1:1 RS-422 1ch 115, 200/57, 600/38, 4 Photocoupler insulatio D-sub 9-pin (female) 30m or less 1 Full duplex For PLC connection (Cannot be used sin with I/F2)	- 100/19, 200/9, 6 m ; nultaneously	500/4, 80 D-sub 9- 3m or les For PLC (Cannot	1ch 10 bps pin (male) ss connection . be used simultaneou	RS-485 1 Termina type) 500m (n extension 16 (max. Half dupi (Can be the wiring	ich i block (attach/detach hax.) (maximum overall length of the system)) ex and full duplex selected depending on)) -drop connection	1:1 USB device 1ch Full Speed 12Mbps Mini-B 1 PC communication		
Connecti configuratic Transmiss ion standard Transmissia Number o can be con Communica Application 8.3 Powe	on on Transmissi on method Transmissi on speed Insulation Method Connector on distance of GOTs that nected ation method	V/F1 (RS-42 1:1 RS-422 1ch 115, 200/57, 600/38, 4 Photocoupler insulation D-sub 9-pin (female) 30m or less 1 Full duplex For PLC connection (Cannot be used sin with I/F2) pecifications	- 100/19, 200/9, 6 m ; nultaneously	500/4, 80 D-sub 9- 3m or les For PLC (Cannot	1ch 10 bps pin (male) ss connection . be used simultaneou	Termina type) 500m (n extension 16 (max. Half dupi (Can be the wiring Soly For multi-	ich i block (attach/detach hax.) (maximum overall length of the system)) ex and full duplex selected depending on)) -drop connection	1:1 USB device 1ch Full Speed 12Mbps Mini-B 1 PC communication		
Connecti configuratic Transmiss ion standard Transmissia Number o can be con Communica Application B.3 Powe	on on Transmissi on method Transmissi on speed Insulation Connector on distance of GOTs that nected ation method	I/F1 (RS-42 1:1 RS-422 1ch 115, 200/57, 600/38, Photocoupler insulation D-sub 9-pin (female) 30m or less 1 Full duplex For PLC connection (Cannot be used sin with I/F2) pecifications te 24VDC (- 400/19, 200/9, 6 on 	500/4, 80 D-sub 9- 3m or les For PLC (Cannot	1ch 10 bps pin (male) ss connection . be used simultaneou	Termina type) 500m (n extension 16 (max. Half dupi (Can be the wiring Soly For multi-	ich i block (attach/detach hax.) (maximum overall length of the system)) ex and full duplex selected depending on)) -drop connection	1:1 USB device 1ch Full Speed 12Mbps Mini-B 1 PC communication		
Connecti configuratic Transmiss ion standard Transmission Number o can be con Communica Application 3.3 Powe Fuse (built-	on on Transmissi on method Transmissi on speed Insulation Method Connector on distance of GOTs that nected ation method er Supply S Item r supply voltag	I/F1 (RS-42 1:1 RS-422 1ch 115, 200/57, 600/38, Photocoupler insulation D-sub 9-pin (female) 30m or less 1 Full duplex For PLC connection (Cannot be used sin with I/F2) pecifications ue 24VDC (canabase) 1A	- 400/19, 200/9, 6 on 	600/4, 80 D-sub 9- 3m or les For PLC (Cannot with I/F1	1ch 10 bps pin (male) ss connection . be used simultaneou	Termina type) 500m (n extension 16 (max. Half dupi (Can be the wiring Soly For multi-	ich i block (attach/detach hax.) (maximum overall length of the system)) ex and full duplex selected depending on)) -drop connection	1:1 USB device 1ch Full Speed 12Mbps Mini-B 1 PC communication		
Connecti configuratic Transmiss ion standard Transmissia Number o can be con Communica Application 3.3 Powe	on on Transmissi on method Transmissi on speed Insulation Method Connector on distance of GOTs that nected ation method er Supply S item r supply voltag -in, not exchan sumption	I/F1 (RS-42 1:1 RS-422 1ch 115, 200/57, 600/38, Photocoupler insulation D-sub 9-pin (female) 30m or less 1 Full duplex For PLC connection (Cannot be used sinwith I/F2) pecifications Image: Part of the state of	+10%, -15%)	500/4, 80 D-sub 9- 3m or les For PLC (Cannot with I/F1 4VDC)	1ch 10 bps pin (male) ss connection . be used simultaneou	Termina type) 500m (n extension 16 (max. Half dupi (Can be the wiring Soly For multi-	ich i block (attach/detach hax.) (maximum overall length of the system)) ex and full duplex selected depending on)) -drop connection	1:1 USB device 1ch Full Speed 12Mbps Mini-B 1 PC communication		

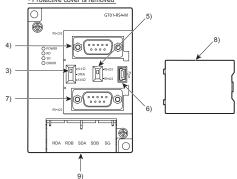
3.4 LED Light Specifications

LED Name	Status	Description			
POWER	Lit	Power is properly supplied.			
FOWER	Not lit	Power is not properly supplied.			
SD	Lit	Sending the data to PLC			
30	Not lit	Not sending the data to PLC			
RD	Lit	Receiving the data from PLC			
KD.	Not lit	Not receiving the data from PLC			
	Not lit	No error			
ERROR*1	Lit in red	Communication error with PLC			
	Blinking in red	Multi-drop communication error			

*1 For details of corrective actions, refer to Chapter 7 Troubleshooting.

4. External Dimensions and Part name





No	Name		Specifications		
1)	nstallation hole for the main unit		Installation hole		
	LED	POWER	Lit in green when the power is properly supplied.		
2)		SD	Lit in green when the data is being sent to PLC.		
2)		RD	Lit in green when the data is being received from PLC.		
		ERROR	Lit or blinking depending on the status.		
3)	Terminating resistor selector		Can be selected among 110 Ω , OPEN and 330 Ω (set to "OPEN" by default)		
4)	Connector for PLC communication (for RS-232 connection)		D-sub 9-pin (male)		
5)	Connector selection switch for PLC communication		Switch for selecting RS-422 or RS-232 (set to "RS-422" by default)		
6)	USB port		For connecting to a personal computer (for changing the communication driver)		
7)	Connector for PLC communication (for RS-422 connection)		D-sub 9-pin (female)		
8)	Protective cover		Protect unused D-sub connector, USB port and switches.		
9)	Terminal block for the serial multi-drop communication		Terminal block 5-pin (with a protective cover) M3 Tightening torque 0.5 to 0.6N.m		
10)	Power supply connector		24VDC power supply connector insertion point (A dedicated cable is included.)		
11)	Slider for installing the DIN rail		-		
12)	Mode selection switch (Slide switch)		Do not operate. (Set to right by default. When set to left, the module does not operate normally.)		

5. Installation

Insulation resistance

Grounding

5.1 Installed with DIN Rail

- Install the multi-drop connection module with its hook (1 place) using the DIN rail. Applicable DIN rail DIN46277 (width: 35mm) (Install the DIN rail with screws at intervals of 150mm.)
- 5.2 Directly Installed to Panel
- Install the multi-drop connection module to the panel using \u03c64.5mm holes (2 places).

5.3 Caution for compliance with EMC Directive

Programmable logic controllers are open-type devices that must be installed and used within conductive control boxes. Please use the Multi-Drop Connection Unit while installed in conductive shielded control boxes. Please secure the control box lid to the control box (for conduction). Installation within a control box greatly affects the safety of the system and aids in shielding noise from the Multi-Drop Connection Unit.

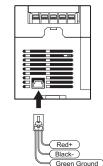
 $10M\Omega$ or larger by insulation resistance tester (across power supply terminals and earth)

Class D grounding (100 Ω or less), To be connected to the panel when grounding is not possible

6. Wiring

6.1 Power Supply Wiring

Connect the power supply cable with connectors (included) and the 24VDC terminal of the external power supply



6.2 Wiring and Terminating Resistor Setting

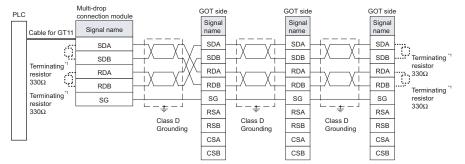
6.2.1 For 1 pair wiring

Make sure to ground a twisted pair cable by applying Class D Grounding (100 $\!\Omega$ or less). Multi-drop

「电器电子产品有害物质限制使用标识要求」的表示方式

6.2.2 For 2 pair wiring

Make sure to ground a twisted pair cable by applying Class D Grounding (1000 or less).

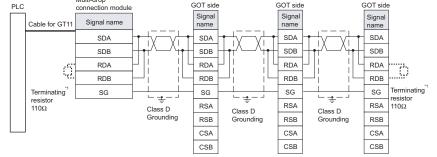


The terminating resistors (330Ω) are built in the multi-drop connection module and GOT (GT21, GT10, GT11, or GT14). Make sure to set them on both ends of the line. For GT27, GT25, GT15, and GT16, external wiring is required. Set the terminating resistors of the GOT that is not at the end of the line to "OPEN".

7. Troubleshooting

Status of ERROR LED	Description				
Lit in red	Check the following items. Check if the power supply status is normal or not. Check the wiring of the connection cable. Install the correct communication driver. Check if the communication interface to which the cable is connected is correct or not. Check the setting of the RS-422/RS-232 selector switch.				
Blinking in red	 Check the following items. Check that the Mode selection switch is set to the right. The OS may be faulty. Install the standard OS and communication driver from GT Designer2 or GT Designer3^{*1} to the multi-dro module again. 				

To use the GOT multi-drop connection with GOT2000, write the standard monitor OS and communication drivers with GT Designer3 (GOT1000) (Version 1.14Q or later).



*1 The terminating resistor (1100) is built in the multi-drop connection module and GOT (GT21, GT10, GT11, or GT14). Make sure to set it on both ends of the line. For GT27, GT25, GT15, and GT16, external wiring is required. Set the terminating resistors of the GOT that is not at the end of the line to "OPEN".



Note: This symbol mark is for China only.

含有有害6物质的名称,含有量,含有部品 本产品中所含有的有害6物质的名称,含有量,含有部品如下表所 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)		
	外壳	0	0	0	0	0	0		
显示器 GOT	印刷基板	×	0	0	0	0	0		
001	电缆	×	0	0	0	0	0		

本表格依据SJ/T 11364的规定编制。

- 〇:表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572 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/T 26572规定的限量要求。

Referenced Standard: GB/T15969.2 (Requirement of Chinese standardized law)

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- (2) Loss in opportunity, lost profits incurred to the user by Failures of Mitsubishi
- (2) Loss in opportunity, lost products the test of test of the test of te
- and other tasks

A 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.
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