



GT15 CC-Link communication unit

User's Manual

GT15-75J61BT13-Z

Set of A8GT-J61BT13 and GT15-75IF900

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	GT15-75J61BT13-Z-U
MODEL CODE	1D7M31
IB(NA)-0800316-D(2011)MEE	

GRAPHIC OPERATION TERMINAL

GOT1000

●SAFETY PRECAUTIONS●

(Always read these instructions 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 "WARNING" and "CAUTION".



Indicates that incorrect handling may cause hazardous conditions, resulting in death or severe injury.



Indicates that incorrect handling may cause hazardous conditions, resulting in medium or slight personal injury or physical damage.

Note that the  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]

WARNING

- Some faults of this unit may keep the outputs on or off. An external monitoring circuit should therefore be provided to check for output signals which may lead to a serious accident.
Not doing so can cause an accident due to mis-output or misoperation.
- If a communication error (including cable disconnection) occurs during monitoring with the GOT, communication between the GOT and master station is interrupted, disabling operation.
When using the GOT to configure a system, assume that a GOT communication error will occur and configure a system in which switches used to perform significant operation for the system are provided on any device other than the GOT.
Not doing so can cause an accident due to mis-output or misoperation.
- To maintain the security (confidentiality, integrity, and availability) of the GOT and the system against unauthorized access, DoS^{*1} attacks, computer viruses, and other cyberattacks from unreliable networks and devices via network, take appropriate measures such as firewalls, virtual private networks (VPNs), and antivirus solutions.
Mitsubishi Electric shall have no responsibility or liability for any problems involving GOT trouble and system trouble by unauthorized access, DoS attacks, computer viruses, and other cyberattacks.
^{*1} DoS: A denial-of-service (DoS) attack disrupts services by overloading systems or exploiting vulnerabilities, resulting in a denial-of-service (DoS) state.

CAUTION

- Do not bunch the control wires or communication cables with the main circuit or power wires, or lay them close to each other.
As a guide, separate the lines by a distance of at least 100 mm (3.94 inch) otherwise malfunctions may occur due to noise.

[INSTALLATION PRECAUTIONS]

WARNING

- Be sure to shut off all phases of the external power supply used by the system before mounting or removing this unit to/from the GOT.
Not doing so can cause a unit failure or misoperation.

[INSTALLATION PRECAUTIONS]

CAUTION

- Use this unit in the environment given in the general specifications of the 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 unit damage.

[WIRING PRECAUTIONS]

WARNING

- Be sure to shut off all phases of the external power supply used by the system before wiring.
Not doing so can cause an electric shock, product damage or misoperation.

CAUTION

- When switching power on or starting operation after mounting, wiring or other work, always fit the terminal cover supplied to the product.
Not doing so can cause an electric shock, short circuit or failure.
- Always ground the FG terminal of the GOT power supply and the FG1 terminal of this unit to the protective ground conductor.
Be sure to ground the GOT and this unit separately.
Not doing so may cause an electric shock or misoperation.
- Before wiring the unit, confirm the rated voltage and terminal arrangement of the product.
A fire or failure can occur if the power supply connected is different from the rating or wiring is incorrect.
- Use applicable solderless terminals and tighten them with the specified torque. If any solderless spade terminal is used, it may be disconnected when the terminal screw comes loose, resulting in failure.

[WIRING PRECAUTIONS]

CAUTION

- Be sure to tighten any unused terminal screws within a tightening torque range (0.36 to 0.48•Nm).
Failure to do so may cause a short circuit due to contact with a solderless terminal.
- Tighten the terminal screws within the specified torque range.
Undertightening can cause a short circuit or misoperation.
Overtightening can cause a short circuit or misoperation due to damaged screws or unit.
- Ensure that foreign matters such as chips and wire off-cuts do not enter the unit.
They can cause a fire, failure or misoperation.
- Be sure to fix the wires or cables by ducts or clamps when connecting them to the unit.
Not doing so can damage the unit or cables due to dangling, moved or accidentally pulled cables or can cause misoperation due to cable contact fault.
- Do not install the control lines together with the communication cables, or bring them close to each other.
Failure to do so may cause malfunctions due to noise.
- When disconnecting a communication or power supply cable from the unit, do not pull on the cable itself.
Disconnect cables fitted with connectors by holding and pulling the cable connector. Disconnect cables not fitted with a connector by removing the screws from the part connected to the unit.
Pulling on a cable that is connected to the unit can cause damage to the unit or cable, or malfunction due to cable connection faults.

[TEST OPERATION PRECAUTIONS]

WARNING

- Do not output (switch on) any reserved signal among the output signals provided from the master unit to the GOT.
Doing so can cause the PLC system to misoperate.

[STARTUP AND MAINTENANCE PRECAUTIONS]

WARNING

- Do not touch the terminals while power is on.
Doing so can cause an electric shock or misoperation.
- Before starting cleaning or terminal screw retightening, always switch power off externally in all phases.
Not doing so can cause a unit failure or misoperation.
Undertightening can cause a drop, short circuit or misoperation.
Overtightening can cause a drop, short circuit or misoperation due to damaged screws or unit.

CAUTION

- Do not disassemble or modify the unit.
Doing so can cause a failure, misoperation, injury or fire.
- Do not touch the conductive areas and electronic parts of the unit.
Doing so can cause the unit to misoperate or fail.
- Do not change any switch setting while power is on.
Doing so can cause a failure or misoperation.
- Do not drop the unit or subject it to strong impact.
Doing so can damage the unit.
- 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 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.

REVISIONS

* The manual number is noted at the lower right of the top cover.

Print Date	*Manual Number	Revision
Jan., 2005	IB(NA)-0800316-A	First edition
Dec., 2005	IB(NA)-0800316-B	Description of the front cover is reviewed.
Mar., 2006	IB(NA)-0800316-C	Partial corrections Chapter 1, Chapter 2, Chapter 4, Chapter 7
Nov., 2020	IB(NA)-0800316-D	Partial corrections SAFETY PRECAUTIONS

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Manuals

The following shows manuals relevant to this product.

Detailed Manual

Manual name	Manual number (Type code)
GT15 User's Manual (Option)	SH-080528ENG (1D7M23)
GOT1000 Series Connection Manual (Option)	SH-080532ENG (1D7M26)

Relevant Manuals

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

1. Overview

This user's manual introduces the GT15 CC-Link communication unit (hereinafter referred to as GT15-75J61BT13-Z) used in the Control & Communication Link system (hereinafter referred to as CC-Link).

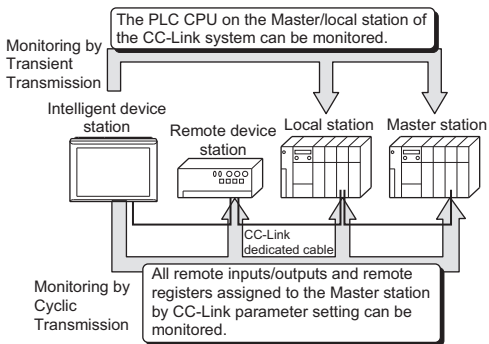
GT15-75J61BT13-Z is configured with the A8GT-J61BT13 CC-Link communication unit (hereinafter referred to as A8GT-J61BT13) and interface converter unit (hereinafter referred to as GT15-75IF900).

For attachable GOTs, refer to the GT15 User's Manual.

After unpacking the box of GT15-75J61BT13-Z, please check if the following items are contained.

Product name	Model name	Quantity
CC-Link communication unit	(A8GT-J61BT13)	1
Interface converter unit	(GT15-75IF900)	1
Fixing bracket for communication unit	-	3

The A8GT-J61BT13 can be connected to the GOT with the GT15-75IF900, which can perform monitoring as an intelligent device station (number of occupied stations selectable from 1 station / 4 stations) in the CC-Link system.



For the details of CC-Link connection, refer to the GOT1000 Series Connection Manual.

2. Performance Specifications

The following is the performance specification of CC-Link communication unit. For the general specifications of CC-Link communication unit, refer to the GT15 User's Manual.*1

Item		Specifications	
CC-Link station type		Intelligent device station	
Number of link occupied stations		May be selected between 1 and 4.	
Maximum number of link points per system		Remote I/O (RX,RY) *2	2048 points
		Remote register (RWw)	256 points
		Remote register (RWr)	256 points
Number of link points per station		Remote I/O (RX,RY) *2	32 points
		Remote register (RWw)	4 points
		Remote register (RWr)	4 points
Number of link points per number of occupied stations	1 station occupied	Remote I/O (RX,RY) *2	32 points
		Remote register (RWw)	4 points
		Remote register (RWr)	4 points
	4 stations occupied	Remote I/O (RX,RY) *2	128 points
		Remote register (RWw)	16 points
		Remote register (RWr)	16 points
Transmission speed		156kbps/625kbps/2.5Mbps/5Mbps/10Mbps	
Max. transmission distance		Depends on the transmission speed.	
Max. number of modules connected		26 The max. number of modules connected depends on the configuration of the CC-Link system to be used. For more details on the max. number of modules connected, refer to the CC-Link System Master-Local Module User's Manual.	
Connection cable		CC-Link dedicated cable	
Terminal block		8-pin terminal block (M3 × 8 screws)	
Applicable crimping terminal		RAV1.25-3, RAV2-3.5 (conforming to JIS C2805)	
Internal current consumption (DC5V)		0.27A in total with GT15-75IF900	
Weight		0.36kg (0.79lb) in total with GT15-75IF900	

*1 : The vibration resistance of the CC-Link communication unit is as follows. (Differs with the GT15.)

Item	Specifications					
Vibration resistance	Conforming to JIS B 3502, IEC 61131-2	Under intermittent vibration	Frequency	Acceleration	Amplitude	Sweep count
			10 to 57Hz	---	0.075mm (0.003inch)	10 times each in X, Y, Z directions (for 80 minch)
		57 to 150Hz	9.8m/s ²	---		
		Under continuous vibration	10 to 57Hz	---	0.035mm (0.001inch)	
57 to 150Hz	4.9m/s ²		---			

*2 : Each of the I/O signals (RX, RY) occupies 16 points of a system area within device points.

For more details on the I/O signals, refer to Section 3.1.

3. I/O Signals and Remote Register Assignment

3.1 I/O Signals Transferred to/from the Master Module

The following table lists the I/O signals assigned to the GOT.

The I/O signals differ according to the set number of occupied stations (1 or 4 stations).

n in the table indicates the address assigned to the Master module by station number setting.

Signal Direction: GOT → Master module		Signal Direction: Master module → GOT		Signal name	
Device No.		Device No.			
Number of occupied stations		Number of occupied stations			
1 station	4 stations	1 station	4 stations		
RXn0 to RXnF	RXn0 to RX(n+6)F	User area	RYn0 to RYnF	RYn0 to RY(n+6)F	User area
RX(n+1)0 to RX(n+1)A	RX(n+7)0 to RX(n+7)A	Reserved	RY(n+1)0 to RY(n+1)A	RY(n+7)0 to RY(n+7)A	Reserved
RX(n+1)B	RX(n+7)B	Remote READY flag *1	RY(n+1)B	RY(n+7)B	
RX(n+1)C to RX(n+1)F	RX(n+7)C to RX(n+7)F	Reserved	RY(n+1)C to RY(n+1)F	RY(n+7)C to RY(n+7)F	

*1 : The remote READY flag is on during startup of the GOT.

It switches on when GOT power is switched on, hardware reset is made, or the GOT is ready to operate.

If GOT power is on, the remote READY flag is off when offline operation is performed (during OS installation or screen data downloading) or while initial processing is executed.

Use it for the interlock ladder when writing or reading data to or from the CC-Link Master station.

3.2 Remote Register Assignment

The following is the assignment of the remote registers of the GOT.
The remote registers differ according to the set number of occupied stations (1 or 4 stations).

All areas are use areas.

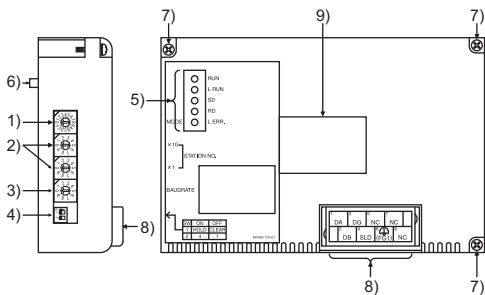
m and n in the table indicate the addresses assigned to the Master module by station number setting.

Transfer Direction	Addresses		Description	Default Value
	Number of occupied stations			
	1 station	4 stations		
Master station ↓ GOT	RWwm to RWwm+3	RWwm to RWwm+F	User write area	0
GOT ↓ Master station	RWRn to RWRn+3	RWRn to RWRn+F	User read area	0

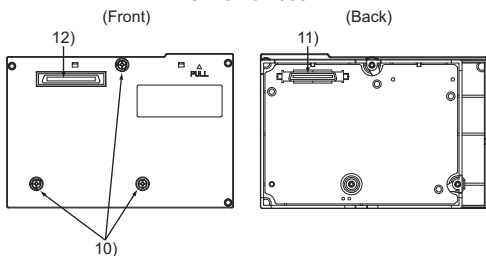
4. Part Names and the Settings


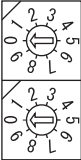


This section provides the names of the A8GT-J61BT13 and GT15-75IF900 parts and how to set the switches.

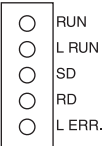
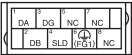
A8GT-J61BT13



GT15-75IF900

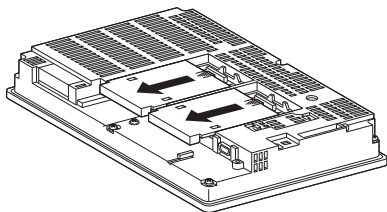


Number	Name	Description			
1)	Mode setting switch 	Used to set the operating status of the module. (Factory setting:0)			
		Number	Name	Description	
		0	Online	Data link enabled and automatic return made	
		1	(Reserved)	-	
		2	Offline	Disconnected from data link	
3 to F	(Reserved)	-			
2)	Station number setting switches 	Used to set the station number of the A8GT-J61BT13 between 1 and 64. (Factory setting: 01) Use "× 10" to set the tens. Use "× 1" to set the units.			
3)	Transmission baudrate setting switch 	Used to set the transmission speed of the module. (Factory setting:0)			
		Number to be Set	Transmission Baudrate		
		0	156kbps		
		1	625kbps		
		2	2.5Mbps		
		3	5Mbps		
		4	10Mbps		
5 to 9	Reserved (If the value you set is 5 to 9, the L.ERR LED is lit to indicate a communication error.)				
4)	Condition setting switches 	Used to set the operational conditions. (Factory setting:OFF)			
		Number	Setting Item	Switch Position	
				ON	OFF
		SW1	Input data status of faulty data link station	Held	Cleared
SW2	Number of occupied stations	4 stations	1 station		

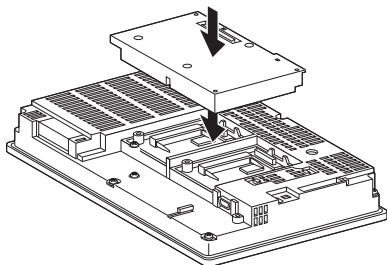
Number	Name	Description															
5)	Indicator LEDs 	Data link status can be conformed by the on/off statuses of the LEDs.															
		<table border="1"> <thead> <tr> <th>LED Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td rowspan="2">RUN LED</td> <td>On : Indicates that the module is normal.</td> </tr> <tr> <td>Off : Indicates a watchdog timer error.</td> </tr> <tr> <td rowspan="2">L RUN LED</td> <td>On : Indicates that communication is normal.</td> </tr> <tr> <td>Off : Indicates a communication break (time excess error).</td> </tr> <tr> <td>SD LED</td> <td>On : Indicates data transmission.</td> </tr> <tr> <td>RD LED</td> <td>On : Indicates data receive.</td> </tr> <tr> <td rowspan="2">L ERR. LED</td> <td>On : Indicates a communication data error (CRC error).</td> </tr> <tr> <td> Flicker : Indicates that any switch (1 to 4) position was changed while power is on. Off : Indicates that communication is normal. </td> </tr> </tbody> </table>	LED Name	Description	RUN LED	On : Indicates that the module is normal.	Off : Indicates a watchdog timer error.	L RUN LED	On : Indicates that communication is normal.	Off : Indicates a communication break (time excess error).	SD LED	On : Indicates data transmission.	RD LED	On : Indicates data receive.	L ERR. LED	On : Indicates a communication data error (CRC error).	Flicker : Indicates that any switch (1 to 4) position was changed while power is on. Off : Indicates that communication is normal.
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6)	Connector	Connector for connection to the GOT															
7)	Module fixing screws	Screws for installation to the GOT (M3 × 3 screw)															
8)	Terminal block	Terminal block for cable connection (M3 × 8 screw)															
																	
9)	Rating plate	-															
10)	Mounting screw	Mounting screw to be fixed with the GOT main unit															
11)	Interface connector	Connector connecting to GOT															
12)	Extension connector	Connector connecting with A8GT-J61BT13															

5. Installation Procedure

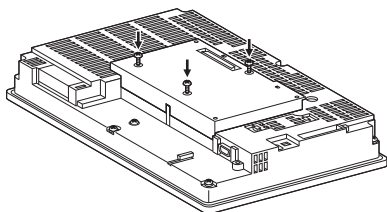
- (1) Power off the GOT.
- (2) Remove the two extension unit covers of the GOT.



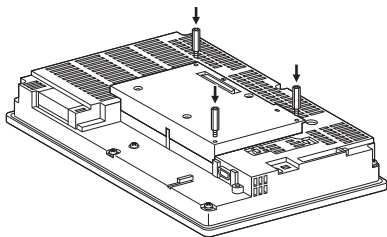
- (3) Fit the GT15-75IF900 along the groove of the GOT case.



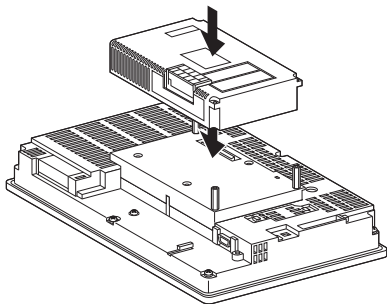
- (4) Fasten the GT15-75IF900 by tightening its mounting screws (3 places) with tightening torque 0.36 to 0.48 N•m.



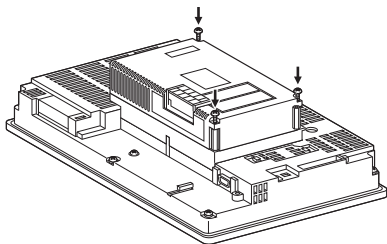
- (5) Attach the communication unit fixing brackets (3 places) to GT15-75IF900, then fasten them with tightening torque of 0.36 to 0.48 N•m.



- (6) Mount the A8GT-J61BT13 to GT15-75IF900.



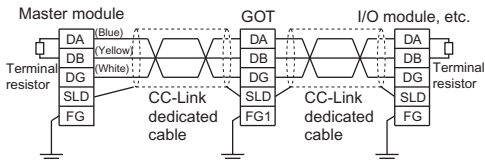
- (7) Fasten the unit fixing brackets (3 places) with tightening torque of 0.36 to 0.48N•m.



6. Wiring Method

The following diagram shows how to wire the GOT and CC-Link system modules.

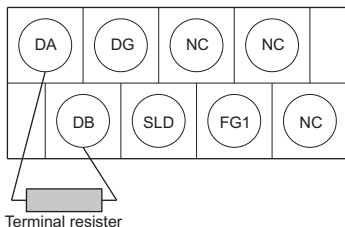
- (1) Wiring the GOT and CC-Link system modules by CC-Link dedicated cable



- (2) Connection of terminal resistor to the GOT

When connecting a terminal resistor to the GOT, always connect it in the following position.

The terminal resistor is contained in the package of the Master module.



POINT

- Tighten terminal block terminal screws (M3 screw) with the tightening torque of 0.36 to 0.48N•m.
- Tighten terminal block mounting screws (M3.5 screw) with the tightening torque of 0.59 to 0.88N•m.
- The "terminal resistors" supplied with the Master module must be connected to the modules at both ends of data link. (Connect them across DA-DB.)
- Connect the shield wire of the CC-Link dedicated cable to "SLD" of each module.
Since "SLD" is connected to "FG/FG1" internally, always ground the FG terminal and FG1 terminal to the protective ground conductor.
- The FG terminal of the GOT power supply and the FG1 terminal of the A8GT-J61BT13 must be connected separately.

Warranty

Mitsubishi will not be held liable for damage caused by factors found not to be the cause of Mitsubishi; machine damage or lost profits caused by faults in the Mitsubishi products; damage, secondary damage, accident compensation caused by special factors unpredictable by Mitsubishi; damages to products other than Mitsubishi products; and to other duties.

For safe use

- This product has been manufactured as a general-purpose part for general industries, and has not been designed or manufactured to be incorporated in a device or system used in purposes related to human life.
- Before using the product for special purposes such as nuclear power, electric power, aerospace, medicine or passenger movement vehicles, consult with Mitsubishi.
- This product has been manufactured under strict quality control. However, when installing the product where major accidents or losses could occur if the product fails, install appropriate backup or failsafe functions in the system.

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