MITSUBISHI MODEL GT15-J61BT13 CC-Link communication unit

User's Manual

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-J61BT13-U | | | |
|---------------------------|----------------|--|--|--|
| MODEL CODE | 1D7M57 | | | |
| IB(NA)-0800351-C(0707)MEE | | | | |

GRAPHIC OPERATION TERMINAL



●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 instructions given in this manual are concerned with this product. In this manual, the safety instructions are ranked as "DANGER" 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 A 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]

DANGER

 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.

ACAUTION

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]



 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 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]

DANGER

 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

- Connect the connectors to the unit securely.
- Always ground the FG terminal of the GOT power supply and the FG termial
 of this unit to the protective ground conducter.

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

- 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]

DANGER

 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]

DANGER

- 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 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 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 |
| Mar., 2006 | IB(NA)-0800351-A | First edition |
| Sep. 2006 | IB(NA)-0800351-B | Partial additon Chapter 1 Addition Compliance with the EMC and Low Voltage Directives |
| Jul. 2007 | IB(NA)-0800351-C | Partial corrections Compliance with the EMC and Low Voltage Directives, Chapter 2, 4, 5 |
| | | |

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Manuals

The following shows manuals relevant to this product.

Detailed Manual

| Manual name | Manual number (Model code) |
|---|----------------------------------|
| GT15 User's Manual (Sold sepa | SH-080528ENG rately) (1D7M23) |
| GOT1000 Series Connection Manual (Sold sepa | SH-080532ENG rately) (1D7M26) |

Relevant Manuals

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

Compliance with the EMC and Low Voltage Directives

When incorporating the Mitsubishi GOT into other machinery or equipment and keeping compliance with the EMC and low voltage directives, refer to "EMC AND LOW VOLTAGE DIRECTIVE" of GT15 User's Manual.

The CE logo is printed on the rating plate of the GOT, indicating compliance with the EMC and low voltage directives.

Packing List

The following items are included.

| Model | Product | Quantity |
|--------------|---|----------|
| | CC-Link communication unit | 1 |
| | Mounting screw set (2 screws, 2 stickers) | 2 |
| | Extension interface relay board | 1 |
| GT15-J61BT13 | Terminating resistor 110Ω 1/2W (brown, brown, brown)* ¹ Plate type solderless terminal set | 1 |
| | Terminating resistor 130Ω 1/2W (brown, orange, brown)*2 Plate type solderless terminal set | 1 |
| | Solderless terrninal (For connecting the braid shield wire, Plate type) | 2 |
| | Terminal block socket | 1 |

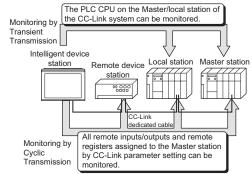
- *1 Use it when using the Ver.1.10 compatible CC-Link dedicated cable/ Ver.1.00 compatible CC-Link dedicated cable.
- *2 Use it when using the Ver.1.00 compatible CC-Link dedicated highperformance cable.

1. Overview

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

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

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



When using the CC-Link connection, make the communication setting to perform communication with PLCs.

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

2. Specifications

2.1 Performance Specifications

The following is the performance specification of CC-Link communication unit. The general specification of the CC-Link communication unit are the same as those of the GOT.

For the general specifications of the GOT refer to GT15 User's Manual. *1

| Item | | Specifications | | |
|---|---------------|---|-------------------|--|
| CC-Link station type | | Intelligent device station | | |
| Number of occupied stations | | May be selected | between 1 and 4. | |
| | | Remote I/O(RX, RY)*2 | 8192 points | |
| | Ver.2 mode | Remote register(RWw) | 2048 points | |
| Maximum number of link | | Remote register(RWr) | 2048 points | |
| points per system | | Remote I/O(RX, RY)*2 | 2048 points | |
| | Ver.1 mode | Remote register(RWw) | 256 points | |
| | | Remote register(RWr) | 256 points | |
| Number of link points per | station | Refer | to *3 | |
| Number of link points per number of occupied stations | | Refer to *4 | | |
| Transmission speed | | 156kbps/625kbps/2.5Mbps/5Mbps/10Mbps | | |
| Max. transmission distance | е | Depends on the tr | ansmission 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 | | |
| Internal current consumption (5VDC) | | 0.56A | | |
| Weight | | 0.18kg (0.40lb) | | |

- *1 When installing an extension unit on the CC-Link communication unit, limit the maximum operating ambient temperature by subtracting 5 degrees from operating ambient temperature of the general specifications.
- *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 The number of link points per station depends on the mode setting of CC-Link as shown below.

For CC-Link Ver.2

| | Number of link points per station | | | | | |
|--------------------------------------|-------------------------------------|-----------|-----------|------------|--|--|
| Link device Extension cyclic setting | | | | | | |
| | Single | Double | Quadruple | Octuple | | |
| Remote I/O(RX, RY) | 32 points | 32 points | 64 points | 128 points | | |
| Remote register(RWw) | 4 points | 8 points | 16 points | 32 points | | |
| Remote register(RWr) | 4 points 8 points 16 points 32 poin | | | | | |

For CC-Link Ver 1

| Link device | Number of link points per station | |
|----------------------|-----------------------------------|--|
| Remote I/O(RX, RY) | 32 points | |
| Remote register(RWw) | 4 points | |
| Remote register(RWr) | 4 points | |

*4 The number of link points per number of occupied stations depends on the mode setting of CC-Link as shown below.

For CC-Link Ver 2

| 1 Of CC-Liffk Vel.2 | | | | | | | | | |
|----------------------|-----------------------------------|--------------------------|--------------|---------------|--------------|---------------|---------------|---------------|--|
| | Number of link points per station | | | | | | | | |
| | | Extension cyclic setting | | | | | | | |
| I tale decides | Single | | Double | | Quadruple | | Octuple | | |
| Link device | 1 | 4 | 1 | 4 | 1 | 4 | 1 | 4 | |
| | station | station | station | station | station | station | station | station | |
| | occup- | occup- | occup- | occup- | occup- | occup- | occup- | occup- | |
| | ied | ied | ied | ied | ied | ied | ied | ied | |
| Remote I/O(RX, RY) | 32 points | 128 points | 32 points | 224 points | 64 points | 448 points | 128 points | 896 points | |
| Remote register(RWw) | 4 points | 16 points | 8 points | 32 points | 16 points | 64 points | 32 points | 128 points | |
| Remote register(RWr) | 4 points | 16 points | 8 points | 32 points | 16 points | 64 points | 32 points | 128 points | |

For CC-Link Ver.1

| Link device | Number of link points per station | | | |
|----------------------|-----------------------------------|--------------------|--|--|
| Lilik device | 1 station occupied | 4 station occupied | | |
| Remote I/O(RX, RY) | 32 points | 128 points | | |
| Remote register(RWw) | 4 points | 16 points | | |
| Remote register(RWr) | 4 points | 16 points | | |

2.2 Specifications of terminal block socket

| Item | Specifications | | |
|-------------------------|--|--|--|
| Screw tightening torgue | Wiring screw : 0.5 to 0.6 N•m Terminal block fixing screw : 0.7 to 0.8 N•m | | |
| Recommended driver | Flat-blade screwdriver (Blade thickness 0.6mm, Width 3.5mm) | | |

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.

| | Device No. | | | | |
|-------------------------|-------------------------|------------------------------|---------------------------|---------------------|--|
| | Extension cy | clic setting*1 | | | |
| Sir | ngle | Do | uble | Signal name | |
| 1 station occupied | 4 station occupied | 1 station 4 station occupied | | | |
| RXn0 to RXnF | RXn0 to RX(n+6)F | RXn0 to RXnF | RXn0 to RX(n+12)F | User area | |
| RX(n+1)0 to RX(n+1)A | RX(n+7)0 to RX(n+7)A | RX(n+1)0 to RX(n+1)A | RX(n+13)0 to RX(n+13)A | Reserved | |
| RX(n+1)B | RX(n+7)B | RX(n+1)B | RX(n+13)B | Remote READY flag*2 | |
| RX(n+1)C to RX(n+1)F | RX(n+7)C to RX(n+7)F | RX(n+1)C to RX(n+1)F | RX(n+13)C to RX(n+13)F | Reserved | |

| Signal Direction : GOT→Master module | | | | | | | |
|--------------------------------------|---------------------------|-------------------------|---------------------------|---------------------------------|--|--|--|
| | Device No. | | | | | | |
| | Extension of | cyclic setting*1 | | | | | |
| Qua | adruple | 0 | ctuple | Signal name | | | |
| 1 station occupied | 4 station occupied | 1 station occupied | | | | | |
| RXn0 to RX(n+2)F | RXn0 to RX(n+26)F | RXn0 to RX(n+6)F | RXn0 to RX(n+54)F | User area | | | |
| RX(n+3)0 to RX(n+3)A | RX(n+27)0 to RX(n+27)A | RX(n+7)0 to RX(n+7)A | RX(n+55)0 to RX(n+55)A | Reserved | | | |
| RX(n+3)B | RX(n+27)B | RX(n+7)B | RX(n+55)B | Remote READY flag ^{*2} | | | |
| RX(n+3)C to RX(n+3)F | RX(n+27)C to RX(n+27)F | RX(n+7)C to RX(n+7)F | RX(n+55)C to RX(n+55)F | Reserved | | | |

| Signal Direction : GOT→Master module | | | | | | |
|--------------------------------------|-------------------------|-------------------------|---------------------------|-------------|--|--|
| | Device No. | | | | | |
| | Extension cy | clic setting*1 | | Signal name | | |
| Sii | ngle | Do | uble | | | |
| 1 station occupied | 4 station occupied | 1 station occupied | 4 station occupied | | | |
| RYn0 to RYnF | RYn0 to RY(n+6)F | RYn0 to RYnF | RYn0 to RY(n+12)F | User area | | |
| RY(n+1)0 to RY(n+1)F | RY(n+7)0 to RY(n+7)F | RY(n+1)0 to RY(n+1)F | RY(n+13)0 to RY(n+13)F | Reserved | | |

| Signal Direction : GOT→Master module | | | | | | |
|--------------------------------------|---------------------------|-------------------------|---------------------------|-------------|--|--|
| | Device No. | | | | | |
| | Extension cy | clic setting*1 | | | | |
| Quad | druple | Oct | uple | Signal name | | |
| 1 station occupied | 4 station occupied | 1 station occupied | 4 station occupied | | | |
| RYn0 to RY(n+2)F | RYn0 to RY(n+26)F | RYn0 to RY(n+6)F | RYn0 to RY(n+54)F | User area | | |
| RY(n+3)0 to RY(n+3)F | RY(n+27)0 to RY(n+27)F | RY(n+7)0 to RY(n+7)F | RY(n+55)0 to RY(n+55)F | Reserved | | |

- *1 When the mode setting of CC-Link is Ver.1, the extension cyclic setting is not available. (Fixed to Single)
- *2 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.

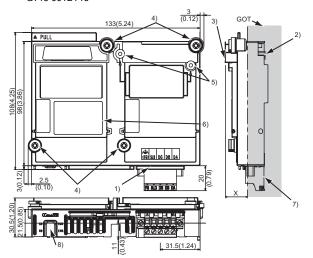
| | | Add | | | | |
|------------------------|--------------------|--------------------|--------------------|--------------------|-----------------|---|
| - , | | Extension cy | | Default Value | | |
| Transfer Direction | Single | | Double | | Description | |
| | 1 station occupied | 4 station occupied | 1 station occupied | 4 station occupied | | |
| Master station GOT | RWwm to RWwm+3 | RWwm to RWwm+F | RWwm to RWwm+7 | RWwm to RWwm+1F | User wirte area | 0 |
| GOT ↓ Master station | RWrn to RWrn+3 | RWrn to RWrn+F | RWrn to RWrn+7 | RWrn to RWrn+1F | User read area | 0 |

| | | Add | | | | | |
|------------------------|--------------------|--------------------|--------------------|--------------------|-----------------|---|--|
| Transfer | | Extension cy | | Default Value | | | |
| Direction | Quadruple | | Octuple | | Description | | |
| | 1 station occupied | 4 station occupied | 1 station occupied | 4 station occupied | | | |
| Master station GOT | RWwm to RWwm+F | RWwm to RWwm+3F | RWwm to RWwm+1F | RWwm to RWwm+7F | User wirte area | 0 | |
| GOT ↓ Master station | RWrn to RWrn+F | RWrn to RWrn+3F | RWrn to RWm+1F | RWrn to RWrn+7F | User read area | 0 | |

^{*3} When the mode setting of CC-Link is Ver.1, the extension cyclic setting is not available. (Fixed to Single)

4. Part Names and External Dimensions

GT15-J61BT13



Dimensions of X when the CC-Link communication unit is mounted to the GOT.

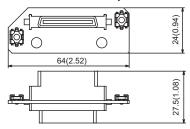
| 15",10.4" | 21(0.83) |
|-----------|----------|
| 12" | 18(0.71) |
| 8.4",5.7" | 23(0.91) |

Unit:mm(inch)

| No. | Name | Description |
|-----|---------------------------------|--|
| 1) | CC-Link communication connector | Connector for connecting the CC-Link dedicated cable |
| 2) | Interface connector | Extension connector installed to a front extension unit or the GOT |
| 3) | Extension connector | Extension connector to which a back extension unit is installed |
| 4) | Mounting screw | Mounting screws fixed with a front extension unit or the GOT |
| 5) | Board fixing screw | Screw for fixing the extension interface relay board |
| 6) | Rating plate | - |

| No. | Name | | Description | | | | | |
|------------------------|---|--|--|--------------------------|--|--|--|--|
| 7) | Terminal block socket | Socket for connecting the CC- communication connector | Socket for connecting the CC-Link dedicated cable to the CC-Link communication connector | | | | | |
| | | communication status. The LED lighting status includ | e CC-Link communication unit and the les the normal mode and error mode. | | | | | |
| | | (1) Normal mode If any communication | LED name | Status | Details | | | |
| | | error occurs in the normal mode, specify the | RUN | OFF | The GOT is being reset. | | | |
| | | error cause by the [NETWK unit status | RON | ON | The unit is in a normal status. | | | |
| | | display] screen. Refer to GT15 User's Manual for details on the | | OFF | The unit is in a normal status. | | | |
| | | [NETWK unit status display] screen. | ERR. | ON | The communication statues of all stations are abnormal. | | | |
| Operation indicator LE | | (2) Error mode When the RUN LED is flickering, the LED indication will change to the error mode. If an error occurs in the error mode, restart the GOT. If the error mode is not released after restarting | ERK. | Flicker | A communication error has occurred at a station or a station number is duplicated. | | | |
| | Operation indicator LED | | SD | OFF | Data have not been transmitted or the GOT is being reset. | | | |
| 8) | SD ORUN | | | ON | Data are being transmitted. | | | |
| | the GOT, the system alarm "460 Communication unit error" may have occurred. | alarm "460 Communication unit | RD | OFF | Data have not been received or the GOT is being reset. | | | |
| | | | ON | Data are being received. | | | | |
| | | For system alarms, refer to GT15 User's Manual. | | | | | | |
| | | | LED name | Status | Details | | | |
| | | | RUN | Flicker | The error mode has been entered. | | | |
| | | | NOI | ON OFF | No errors | | | |
| | | | ERR. | OFF | A starting error has not occurred. | | | |
| | | | LINIX. | ON | A starting error has occurred. | | | |
| | | | RD | OFF | A hardware failure has not occurred. | | | |
| | | | | ON | A hardware failure has occurred. | | | |

Extension interface relay board

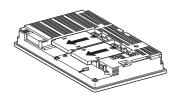


Unit:mm(inch)

5. Installation Procedure

5.1 CC-Link communication unit installation

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

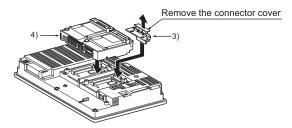


(3) Attach the extend interface relay board to the extend I/F-2 side on the GOT.

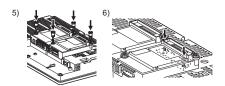
After the installation, detach the connector cover from the extend interface relay board.

For GT155□, the extension interface relay board is not needed.

(4) Fit the CC-Link communication unit in the GOT case.



- (5) Fasten the CC-Link communication unit by tightening its mounting screws (4 places) with tightening torgue 0.36 to 0.48 N·m.
- (6) Fasten the bus connection unit by tightening the board fixing screws (2 places) with the tightening torque of 0.36 to 0.48 N·m.

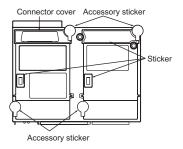


(7) When installing an extension unit on the unit that has been installed, remove the connector cover and the sticker.

When not installing an extension unit on the unit that has been installed, in order to avoid receiving electrostatic, stick accessory stickers to cover the top of mounting screws (4 places).

Keep the connector cover fixed.

Keep the sticker stuck as it is.

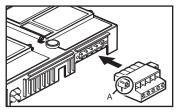


POINT

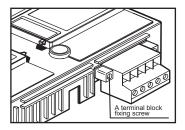
Remove the screws that fixes the extension interface relay board before removing the unit.(Above 6))

5.2 Terminal block socket installation

(1) Insert the terminal block socket in the CC-Link communication unit.



(2) Fasten the terminal block by tightening the terminal block fixing screws (2 places) with the tightening torque of 0.7 to 0.8 N·m. (Expanded figure of part A)



POINT

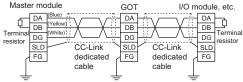
When attaching or removing a communication cable to/from the terminal block socket, detach the terminal block socket from the connector.

(When extension units are installed in multiple layers, the units do not have to be removed from the GOT main unit.)

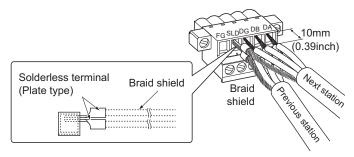
6. Wiring Method

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

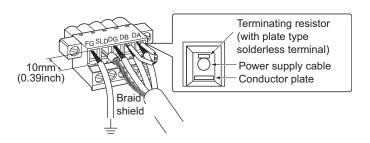


When connecting the CC-Link dedicated cables of the previous station and next station, strip the wire sheaths off for 10mm (0.39inch) and insert the cables into the terminal block socket with every two wires in the same color together. When connecting the braid shields of the CC-Link dedicated cables of the previous station and the next station, caulk each braid shield to the supplied solderless terminal (Plate type), then insert the shields into the terminal block socket.



(2) When connecting the terminating resistor and FG cable When connecting the terminating resistors to the GOT, be sure to connect the terminating resistors (with the supplied plate type solderless terminal) at the position as shown below.

When connecting the FG cable, strip the wire sheath of the FG cable (2mm²) off for 10mm (0.39inch) and insert it into the terminal block socket



POINT

- Tighten the terminal block wiring screws with the tightening torque of 0.5 to 0.6 N-m.
- Tighten terminal block mounting screws with the tightening torque of 0.7 to 0.8
 N-m.
- The terminating resistors supplied with the master module or the CC-Link communication unit must be connected to the PLC module or GOT at both ends of the 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 internally, always ground the FG terminal and FG1 terminal to the protective ground conductor.
- The FG terminal of the GOT power supply and the FG terminal of the CC-Link Communication unit must be connected separately.
- When using the plate type solderless terminal, be sure to insert the terminal in the horizontal direction toward the terminal block.

The solderless terminal may come off when it is inserted in the vertical direction.

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|---------------|--|----------------|--|
| U.S.A | Mitsubishi Electric Automation Inc. 500 Corporate Woods Parkway Vernon Hills, IL 60061, U.S.A. Tel: +1-847-478-2100 | Hong Kong | Mitsubishi Electric Automation (Hong Kong) Ltd. 10th Floor, Manulife Tower, 169 Electric Road, North Point, Hong Kong |
| Brazil | MELCO-TEC Rep. Com.e Assessoria Tecnica Ltda. Rua Correia Dias, 184, Edificio Paraiso Trade Center-8 andar Paraiso, Sao Paulo, SP Brazil Tel: +55-11-5908-8331 | China | Tel: +852-2887-8870 Mitsubishi Electric Automation (Shanghai) Ltd. 4/F Zhi Fu Plazz, No.80 Xin Chang Road, Shanghai 200003, China Tel: +86-21-6120-0808 |
| Germany | Mitsubishi Electric Europe B.V. German Branch Gothaer Strasse 8 D-40880 Ratingen, GERMANY | Taiwan | Setsuyo Enterprise Co., Ltd. 6F No.105 Wu-Kung 3rd.Rd, Wu-Ku Hsiang, Taipei Hsine, Taiwan Tel : +886-2-2299-2499 |
| U.K | Tel: +49-2102-486-0 Mitsubishi Electric Europe B.V. UK Branch Travellers Lane, Hatfield, Hertfordshire., | Korea | Mitsubishi Electric Automation Korea Co., Ltd. 1480-6, Gayang-dong, Gangseo-ku Seoul 157-200, Korea Tel: +82-2-3660-9552 |
| Italy | AL10 8XB, U.K. Tel: +44-1707-276100 Mitsubishi Electric Europe B.V. Italian | Singapore | Mitsubishi Electric Asia Pte, Ltd. 307 Alexandra Road #05-01/02, Mitsubishi Electric Building, Singapore 159943 Tel: +65-6470-2460 |
| Spain | Branch Centro Dir. Colleoni, Pal. Perseo-Ingr.2 Via Paracelso 12, I-20041 Agrate Brianza., Milano, Italy Tel: +39-039-60531 Mitsubishi Electric Europe B.V. Spanish | Thailand | Mitsubishi Electric Automation (Thailand) Co., Ltd. Bang-Chan Industrial Estate No.111 Moo 4, Serithai Rd, T.Kannayao, A.Kannayao, Bangkok 10230 Thailand |
| France | Branch Carretera de Rubi 76-80, E-08190 Sant Cugat del Valles, Barcelona, Spain Tel: +34-93-565-3131 | Indonesia | Tel: +66-2-517-1326 P.T. Autoteknindo Sumber Makmur Muara Karang Selatan, Block A/Utara No.1 Kav. No.11 Kawasan Industri Pergudangan Jakarta - Utara 14440, P.O.Box 5045 Jakarta, 11050 Indonesia |
| France | Mitsubishi Electric Europe B.V. French Branch 25, Boulevard des Bouvets, F-92741 Nanterre Cedex, France TEL: +33-1-5588-5568 | India | Tel: +62-21-6630833 Messung Systems Pvt, Ltd. Electronic Sadan NO:III Unit No15, M.I.D.C Bhosari, Pune-411026, India Tel: +91-20-2712-3130 |
| South Africa | Circuit Breaker Industries Ltd. Private Bag 2016, ZA-1600 Isando, South Africa Tel: +27-11-928-2000 | Australia | Mitsubishi Electric Australia Pty. Ltd. 348 Victoria Road, Rydalmere, N.S.W 2116, Australia Tel: +61-2-9684-7777 |

♣MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE: TOKYO BUILDING, 2-7-3 MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN NAGOYA WORKS: 1-14. YADA-MINAMI 5-CHOME. HIGASHI-KU. NAGOYA, JAPAN

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