

Before Using the Product

SAFETY PRECAUTIONS

(Read these precautions before using this product.)

Before using this product, please read this manual and the relevant manuals carefully and pay full attention to safety to handle the product correctly.

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

Indicates that incorrect handling may cause hazardous conditions, resulting in minor or moderate injury or property damage.

Attire l'attention sur le fait qu'une négligence peut créer une situation de danger avec risque de mort ou de blessures graves.

Attire l'attention sur le fait qu'une négligence peut créer une situation de danger avec risque de blessures légères ou de gravité moyennes ou risque de dégâts matériels.

Under some circumstances, failure to observe the precautions given under "CAUTION" may lead to serious consequences.

Design Precautions

WARNING

- In the case of a communication failure in CC-Link IE Field Network, the status of the error station will be as follows: (1) All inputs from remote I/O stations connected to the CC-Link network are turned off.

CAUTION

- Do not install the control lines or communication cables together with the main circuit lines or power cables.

Installation Precautions

WARNING

- Shut off the external power supply (all phases) used in the system before connecting or disconnecting a module.

CAUTION

- Use the module in an environment that meets the general specifications in the CC-Link IE Field Network-CC-Link Bridge Module User's Manual.

Wiring Precautions

WARNING

- Shut off the external power supply (all phases) used in the system before wiring.

CAUTION

- Tighten any unused terminal screws within the specified torque range.

CAUTION

- Prevent foreign matter such as dust or wire chips from entering the module.

Startup and Maintenance Precautions

WARNING

- Do not touch any terminal while power is on.

CAUTION

- Do not disassemble or modify the modules.

Disposal Precautions

CAUTION

- When disposing of this product, treat it as industrial waste.

Précautions lors de la conception

AVERTISSEMENT

- En cas de problème de communication dans le réseau de terrain CC-Link IE, l'état de la station où se produit l'erreur sera comme suit.

ATTENTION

- Ne pas entremêler les lignes de commandes ou câbles de communication avec les lignes des circuits principaux ou les câbles d'alimentation.

Précautions d'installation

AVERTISSEMENT

- Couper l'alimentation externe (sur toutes les phases) utilisée par le système avant de connecter ou de déconnecter un module.

ATTENTION

- Utiliser le module dans un environnement en conformité avec les spécifications générales que présente le Manuel de l'utilisateur du module pont CC-Link pour réseau de terrain CC-Link.

Table with 4 columns: Specification, Test item, Test details, Standard value. Includes EN61000-4-2 Electrostatic discharge immunity test.

Table with 4 columns: Specification, Test item, Test details, Standard value. Includes EN61000-4-3 Radiated radio-frequency immunity test.

\*1 Bridge module is an open type device (a device designed to be housed in other equipment) and must be installed inside a conductive control panel.

(2) Installation in a control panel Bridge module is an open type device and must be installed inside a control panel.

(a) Control panel Use a conductive control panel.

(b) Wiring of power cables and ground cables Provide a ground point near the module power supply part.

(c) Cables Use shielded cables for the cables which are connected to the bridge module.

(a) Cables for the CC-Link IE Field Network Be sure to use the cables for the CC-Link IE Field Network.

(b) Grounding a Ver. 1.10-compatible CC-Link dedicated cable Be sure to ground the cable shield that is connected to the CC-Link module.

(c) Grounding a Ver. 1.10-compatible CC-Link dedicated cable Be sure to ground the cable shield that is connected to the CC-Link module.

(2) Wiring of a terminal block for CC-Link The following table lists an applicable solderless terminal connected to a terminal block.

Table with 7 columns: Model, Tightening torque, Diameter, Type, Material, Temperature rating, Wire.

(2) Câblage d'une plaque à bornes pour CC-Link Le tableau ci-dessous indique quelles bornes sans soudure peuvent être utilisées.

Table with 7 columns: Modèle, Couple de serrage, Diamètre, Type, Matériau, Gamme de température, Fil.

(3) Wiring of a module power supply The following table lists applicable bar solderless terminals connected to a terminal block.

Table with 7 columns: Model, Tightening torque, Diameter, Type, Material, Temperature rating, Wire.

(3) Câblage d'un module d'alimentation Le tableau ci-dessous indique quelles bornes-barres sans soudure peuvent être utilisées.

Table with 7 columns: Modèle, Couple de serrage, Diamètre, Type, Matériau, Gamme de température, Fil.

5. EMC and Low Voltage Directives Compliance to the EMC Directive, which is one of the EU Directives, has been a legal obligation for the products sold in European countries since 1996.

(1) Sales representative in EU member states Authorized representative in Europe is shown below.

5.1 Measures to Comply with the EMC Directive The EMC Directive specifies that "products placed on the market must be so constructed that they do not cause excessive electromagnetic interference (emissions) and are not unduly affected by electromagnetic interference (immunity)".

(1) EMC Directive related standards (a) Emission requirements

Table with 4 columns: Specification, Test item, Test details, Standard value. Includes CISPR16-2-3 Radiated emission.

Table with 4 columns: Specification, Test item, Test details, Standard value. Includes CISPR16-2-1, CISPR16-1-2 Conducted emission.

\*1 QP: Quasi-peak value, Mean: Average value \*2 Bridge module is an open type device (a device designed to be housed in other equipment) and must be installed inside a conductive control panel.

ATTENTION

- Serrer toutes les vis des bornes inutilisées au couple prescrit.

- Utiliser des bornes sans soudure de type approprié et serrer au couple de serrage prescrit.

Précautions de mise en service et de maintenance

AVERTISSEMENT

- Ne pas démonter ni modifier les modules.

ATTENTION

- Ne pas débrancher le câble du module, ne tirer directement sur le câble proprement dit.

Précautions de mise au rebut

ATTENTION

- Lors de sa mise au rebut, ce produit doit être traité comme un déchet industriel.

CONDITIONS OF USE FOR THE PRODUCT

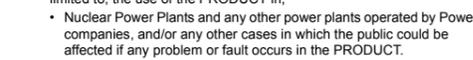
- (1) Mitsubishi programmable controller ("the PRODUCT") shall be used in conditions;

- (2) The PRODUCT has been designed and manufactured for the purpose of being used in general industries.

MITSUBISHI SHALL HAVE NO RESPONSIBILITY OR LIABILITY (INCLUDING, BUT NOT LIMITED TO ANY AND ALL RESPONSIBILITY OR LIABILITY BASED ON CONTRACT, WARRANTY, TORT, PRODUCT LIABILITY) FOR ANY INJURY OR DEATH TO PERSONS OR LOSS OR DAMAGE TO PROPERTY CAUSED BY THE PRODUCT THAT ARE OPERATED OR USED IN APPLICATION NOT INTENDED OR EXCLUDED BY INSTRUCTIONS, PRECAUTIONS, OR WARNING CONTAINED IN MITSUBISHI'S USER, INSTRUCTION AND/OR SAFETY MANUALS, TECHNICAL BULLETINS AND GUIDELINES FOR THE PRODUCT.

- (1) Nuclear Power Plants and any other power plants operated by Power companies, and/or any other cases in which the public could be affected if any problem or fault occurs in the PRODUCT.

- (2) Railway companies or Public service purposes, and/or any other cases in which establishment of a special quality assurance system is required by the Purchaser or End User.



4.2 Wiring products Produits pour câblage

(1) CC-Link IE Field Network The following table lists a cable connected to a CC-Link IE Field Network port.

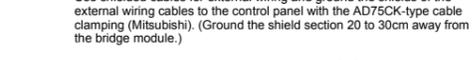
Table with 4 columns: Name, Connector, Cable, Category. Includes 1000BASE-T RJ45 Straight cable.

(1) Réseau de terrain CC-Link IE Le tableau ci-dessous indique quels câbles peuvent être utilisés pour le raccordement d'un port de réseau de terrain CC-Link IE.

Table with 4 columns: Nom, Connecteur, Câble, Catégorie. Includes 1000BASE-T RJ45 Câble simple.



(c) Grounding the cable clamp Use shielded cables for external wiring and ground the shields of the external wiring cables to the control panel with the AD75CK-type cable clamping (Mitsubishi).

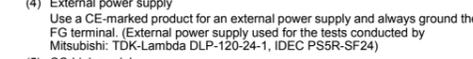


(4) External power supply Use a CE-marked product for an external power supply and always ground the FG terminal.

(5) CC-Link module To ground the Ver. 1.10-compatible CC-Link dedicated cable, refer to (3) (b) in this section.

(6) Others (a) Ferrite core A ferrite core has the effect of reducing radiated noise in the 30MHz to 100MHz band.

(b) Noise filter (power supply line filter) A noise filter is a component which has an effect on conducted noise.



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(c) Grounding a Ver. 1.10-compatible CC-Link dedicated cable Be sure to ground the cable shield that is connected to the CC-Link module.

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- Aircraft or Aerospace, Medical applications, Train equipment, transport equipment such as Elevator and Escalator, Incineration and Fuel devices, Vehicles, Manned transportation, Equipment for Recreation and Amusement, and Safety devices, handling of Nuclear or Hazardous Materials or Chemicals, Mining and Drilling, and/or other applications where there is a significant risk of injury to the public or property.

Notwithstanding the above, restrictions Mitsubishi may in its sole discretion, authorize use of the PRODUCT in one or more of the Prohibited Applications, provided that the usage of the PRODUCT is limited only for the specific applications agreed to by Mitsubishi and provided further that no special quality assurance or fail-safe, redundant or other safety features which exceed the general specifications of the PRODUCTS are required.

1. Relevant manuals

Details of the product are also described in the manual shown below (sold separately). Please read the manual and understand the functions and performance of the product to use it correctly.

- CC-Link IE Field Network-CC-Link Bridge Module User's Manual SH-081121ENG (13J284)

2. Packing list

Table with 2 columns: Item, Quantity. Includes "Before Using the Product" (this document) and A set of terminating resistors for CC-Link.

3. Operating ambient temperature

Use the module in the ambient temperatures of 0 to 55°C. 3. Température ambiante de fonctionnement Utiliser le module avec une température ambiante entre 0 et 55°C.

4. Wiring

Câblage

4.1 Wiring diagrams

Schémas de câblage



Table with 2 columns: English, French. Includes CC-Link dedicated cable, Terminating resistor, white, yellow.

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(2) Wiring of a power supply Câblage d'une alimentation



4.2 Wiring products Produits pour câblage

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