

Thank you for purchasing our Conversion Connector CMAC.

This manual contains instructions for the connection, usage and notes when using the CMAC.

To ensure safe and correct use, thoroughly read and understand this manual before using CMAC.

To prevent accidents arising from the misuse of CMAC, please ensure the operator receives this manual.

Safety Precautions (Be sure to read these precautions before using our products.)

⚠ Caution: Procedures which may lead to dangerous conditions and cause superficial to medium injury or physical damage or may degrade or damage the product, if not carried out properly.

⚠ Safety Precautions

- (1) Insert the 3P socket pin into the holes of the controller with the UP mark upward. Do not forcibly insert it. Otherwise the CMAC or the receiving holes will be damaged.
- (2) Do not bend, pull strongly or put hard objects on the CMAC.
- (3) Do not insert or pull out the CMAC during communication. Doing this may cause malfunction.
- (4) The metallic parts of the CMAC should not come into contact with external power terminals.
- (5) Do not handle the CMAC and CMA plug with wet hands. This may cause an electrical shock.

⚠ Caution

CMAC is provided for Shinko agencies or other qualified service personnel.

Please store and handle it carefully avoiding excessive force.

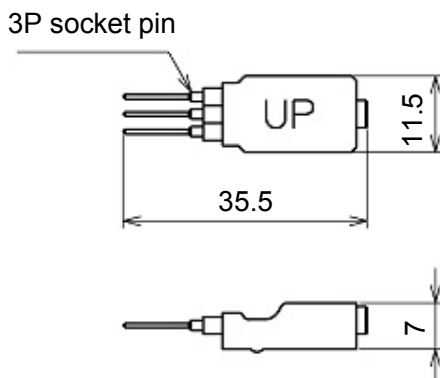
This product is used for setting the Configuration Editor (Setup software). Remove the CMAC from the controller after setting. Do not leave the CMAC connected to the controller after setting.

- (1) Ensure the mounting location corresponds to the following conditions.
 - A minimum of dust, and an absence of corrosive gases
 - No flammable, explosive gases
 - No mechanical vibrations or shocks
 - No exposure to direct sunlight, an ambient temperature of 0 to 50°C (32 to 122°F) that does not change rapidly, and no icing
 - An ambient non-condensing humidity of 35 to 85 %RH
 - No large capacity electromagnetic switches or cables through which large current is flowing.
 - No water, oil or chemicals or the vapors of these substances can come into direct contact with the CMAC.
- (2) Use a soft, dry cloth when cleaning the CMAC.
(Alcohol based substances may tarnish or deface the CMAC.)

1. Model

1.1 Model: CMAC (Conversion connector)

2. External Dimensions (Scale: mm)

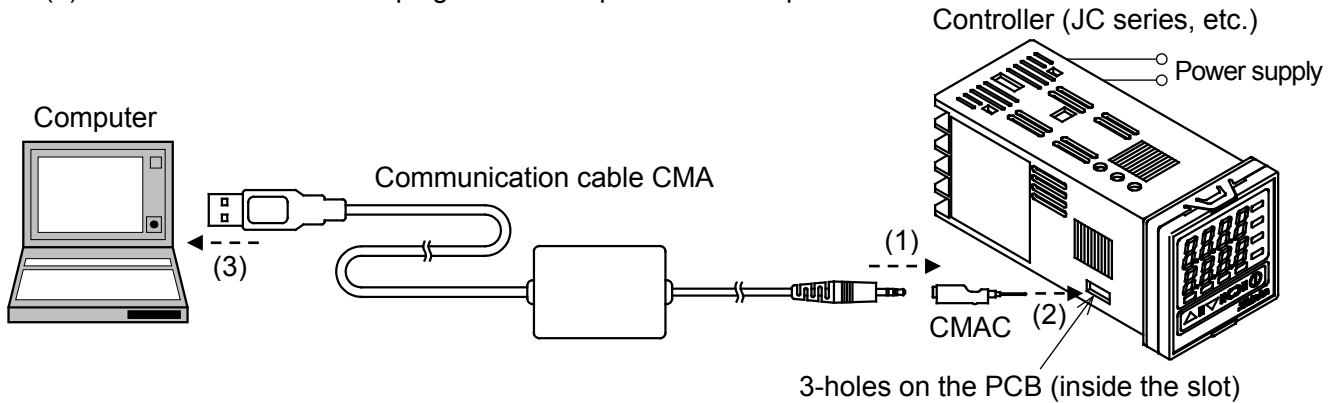


(Fig. 2-1)

3. Usage

3.1 Connection to the CMA

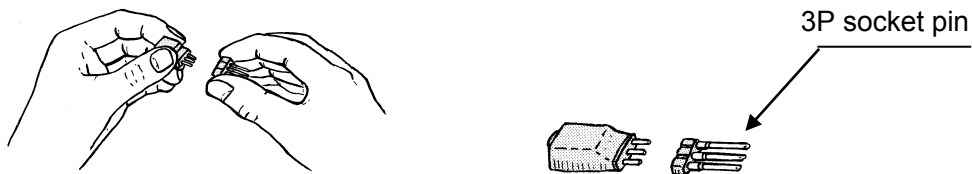
- (1) Insert the Communication cable CMA plug into 2.5 jack (small type) of the CMAC.
Insert the plug until a click sound is audible. Otherwise communication is impossible due to imperfect insertion.
- (2) Insert the CMAC (with the UP mark upward) into the holes of Shinko controller.
- (3) Connect the CMA USB plug to the USB port of the computer.



(Fig. 3.1-1)

3.2 3P Socket Pin Replacement

If the 3P socket pin contact is damaged due to frequent insertion/removal of the CMAC, use the included pin for replacement.



(Fig. 3.2-1)

4. Specifications

Connector (CMAC):	Communication cable side: Serial ϕ 2.5 jack (small type)
	Controller side: Serial 3P socket pin (Removable)
Material:	Heat shrinkable tube
Color:	Gray
Insertion/Removal force:	Communication cable side: 2.94 to 29.4 N
	Controller side: Depends on controllers.
Number of insertion times:	Communication cable side: 5,000 times
	Controller side: Depends on controllers.
Ambient temperature:	0 to 50°C (32 to 122°F) (No icing)
Ambient humidity:	35 to 85 %RH (Non-condensing)
Weight:	Approx. 2 g (with 3P socket pin)
Environment specification:	RoHS directive compliant
Accessories:	Instruction manual: 1 copy
	3P socket pin (for replacement): 1 piece

- For malfunctions, please contact our main office or dealers.

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