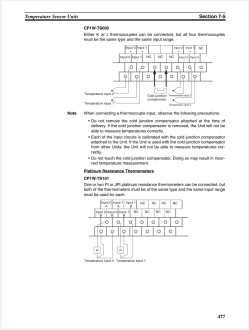
FIELD INSTALLATION QUICK GUIDE

# Installation Instructions

CP1W-TS002

Four-channel thermocouple input unit



| | |
|---|---|
| PRODUCT | CP1W-TS002 |
| FAMILY | CP1W temperature sensor expansion |
| FUNCTION | Four-channel thermocouple input unit |
| STATUS | Verify exact installed equipment |

Prepared by Amikon Limited from Omron documentation. This guide supplements the complete manufacturer manual and site procedure.

## 01 CONFIRM THE ORDERED CONFIGURATION

| | |
|---|---|
| Thermocouple input channels | 4 |
| Sensor types | K or J; the same type on all four inputs |
| K wide input range | -200 to 1300 deg C, rotary setting 0 |
| K decimal input range | 0.0 to 500.0 deg C, rotary setting 1 |
| J wide input range | -100 to 850 deg C, rotary setting 2 |
| J decimal input range | 0.0 to 400.0 deg C, rotary setting 3 |

## 02 PREPARATION AND CONNECTION

- Isolate the CPU and expansion supply before connection.
- Choose the common K or J range for all four inputs.
- Keep the supplied cold-junction compensator attached.
- Connect the fixed expansion cable in the documented unit order.

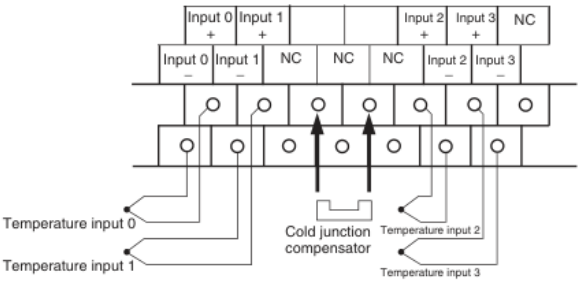
03

# OFFICIAL INSTALLATION REFERENCE



**CP1W-TS002**

Either K or J thermocouples can be connected, but all four thermocouples must be the same type and the same input range.



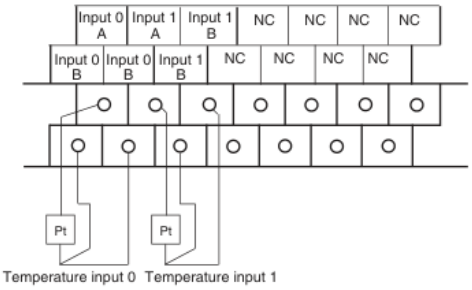

**Note** When connecting a thermocouple input, observe the following precautions:

- Do not remove the cold junction compensator attached at the time of delivery. If the cold junction compensator is removed, the Unit will not be able to measure temperatures correctly.
- Each of the input circuits is calibrated with the cold junction compensator attached to the Unit. If the Unit is used with the cold junction compensator from other Units, the Unit will not be able to measure temperatures correctly.
- Do not touch the cold junction compensator. Doing so may result in incorrect temperature measurement.

**Platinum Resistance Thermometers**

**CP1W-TS101**

One or two Pt or JPt platinum resistance thermometers can be connected, but both of the thermometers must be of the same type and the same input range must be used for each.






Official manufacturer page reproduced at its original aspect ratio.

## 04 COMMISSIONING CHECKS

| | |
|---|---|
| 01 | Verify each thermocouple polarity against the four-input drawing. |
| 02 | Leave NC terminals unused. |
| 03 | Confirm Celsius or Fahrenheit and the selected range. |
| 04 | Allow approximately one second for initial conversion. |
| 05 | Check all four allocated input words. |
| 06 | Verify open-circuit detection and normal readings. |

## 05 CONTROLLED DOCUMENT

| | |
|---|---|
| Official source | OMRON W462 CP1L CPU Unit Operation Manual, Section 7-5, printed pages 473-479. |
| Product record | CP1W-TS002 |
| Manufacturer | Omron |
| Warranty | 12 months from AMIKON |
| Support | INFO@AMIKON.CN |

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