



Read This First

ATTENTION

24V dc FLEX I/O Thermocouple/RTD Input Module

(Cat. No. 1794-IRT8)

This version of the thermocouple/RTD module (firmware revision E) differs from previous versions. Read the following Attention statements prior to using this module.

ATTENTION

This thermocouple/RTD module (firmware revision E) differs from previous versions of the module as follows:

- **Adjust the cold junction compensation (CJC) temperature range:**

This temperature range has been increased to accommodate situations where the terminal base ambient temperature may operate above or below the current recommended range of 0 to 70°C.

ATTENTION



This thermocouple/RTD module (firmware revision E) differs from previous versions of the module as follows:

- **Change to the CJC sensor fault modes:**

When one CJC sensor has failed 'open' or 'shorted', the module will use the remaining 'good' CJC value for **both** CJC sensors and set the CJC fault bit for the failed sensor. When both CJC sensors have failed 'open' or 'shorted', the module will substitute the value of 100°C for both CJC values and set both CJC fault bits. This will result in increased temperature data for any thermocouple type. **(In previous versions, if a CJC sensor fails 'open', the module uses 0°C for that CJC value, and if a CJC sensor fails 'shorted', the module uses 70°C for that CJC value.**

ATTENTION

This thermocouple/RTD module (firmware revision E) differs from previous versions of the module as follows:

- the delay time of the open wire (open input) detection function has been decreased. The input devices will be checked during every internal module scan. To accomplish this enhancement, the internal module scan time has been increased slightly for all modes of operation.

(In previous versions, there was a long, variable delay time from when an input device opened to when the module detected the fault.)

- **Correction to an internal hardware error at 'power up':**

During power up, if there is an internal error relating to the module's RAM or EEPROM, the module will

- set the appropriate diagnostic code in WORD 11 of the module's READ data,
- set all channel data to '32767 (7FFF in hex)',
- set all channel fault bits
- leave the channel 0 fault LED on (solid RED).

(In previous versions, the module would continue to 'run' without indicating an error.)

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