

## High Speed 8-Channel Thermocouple Conditioner Module w/Ref Junction Compensation



### Applications

- Flight test instrumentation
- Factory automation
- Engine testing, aerodynamics testing

### Features

- 8-channels per module
- Two user-selectable data update rates
  - 250 updates/sec. and
  - 1000 updates/sec
- High resolution
  - 16-Bit resolution @ 250 updates/sec
  - 12-Bit resolution @ 1000 Hz updates/sec
- True real-time linearization
- Compatible with types J, K, T & E (-1 module), J, K, T & C (-2 module) or J, K, T & S (-3 module); other versions available
- Programmable on per-channel basis
- Mixed types in the same module
- Programmable measurement range
  - Full ANSI range (full scale),
  - ANSI range/2 (half scale) or
  - ANSI range/4 (quarter scale)
- Programmable sliding fine range (range min/max)
- $\pm 0.3\%$  system accuracy
- $\pm 35\text{VDC}$  overvoltage protection
- Open thermocouple detection
- Compatible with TTC's miniature data acquisition products
- Microsoft Windows application software included

### Description

The MTCD-208V is an 8-channel plug-in thermocouple conditioning module for use in TTC's miniature, stackable data acquisition products. The module is intended for applications that require high speed and high performance thermocouple signal conditioning, true real-time linearization, and compatibility with multiple ANSI thermocouple types, all within a single module. Each module is provided with an 8-channel RJC-108, Reference Junction Compensator unit. Thermocouple data is digitized to 16-bit resolution at a channel update rate of 250 Hz or 12-bit resolution at a channel update rate of 1000 Hz for transmission in the system data output format.

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### MTCD-208V Datasheet

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 Specifications subject to change without notice.



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