

2552-A 8-Channel Isolated RTD Input Module



Description

The 2552-A is a high-speed 8-channel isolated RTD input module designed to be compatible with the CTI 2500 Series® or Simatic® 505 I/O base in local, remote I/O, and Profibus configurations. The 2552-A translates RTD input signals into a scaled temperature value.

Features

- CTI 2500 Series® or Simatic® 505 base format
- 1500V channel-to-channel isolation
- 1500V channel-to-PLC backplane isolation
- Fast 2msec update time per channel
- Detects open in RTD or field wiring
- Compensates for lead wire resistance
- Supports 0 - 100 millivolt inputs on any channel

Specifications

Input Channels: 8 RTD input channel, independently isolated and configurable

RTD Types:

100Ω platinum: TCR = 0.003850, Ω/Ω/°C

European DIN 43760

-198 °C to 849.8 °C (-327.6°F to 1561.6°F)

120Ω nickel: TCR = 0.00672, Ω/Ω/°C

Temperature Range: -79.8°C to 260.0°C (-111.6°F to 500.0°F)

Other RTD types by special request: 0Ω Cu

Absolute Temp Accuracy: ±0.4°C (±0.8°F)

Millivolt Range: 0 to 103.04 Millivolts

Millivolt Input Impedance: >10KΩ @ 60Hz

Absolute Millivolt Accuracy: ±0.5% full scale or ±500μV

Lead Compensation: 20Ω per lead wire

Bias Current to RTD Probe: 250 microamps

Digital Filtering Time Constant: 0.3 Sec

Output Units: Degrees C or F

Repeatability: 0.05% full scale

Resolution: 0.025% full scale

Update Time: 2msec per channel

Common Mode Rejection: >110db @ 60Hz (digital filtering disabled)

Normal Mode Rejection: >145db @ 60Hz (digital filtering enabled)

Input ESD Protection: 20,000V

Overrange Protection: 20 VDC input to common

Isolation: 1500V channel-to-channel

1500 VDC channel-to-PLC

Connector: Fixed 32 position terminal strip

Wire Gauge: 18-24 AWG

Backplane Power: 2.75W @ 5 VDC

Module Size: Single-wide

Shipping Weight: 1.5 lb. (0.68 Kg)

Additional Product Information:

On CTI's Website you will find links to the 2500 Series Standard Environmental Specifications and the UL Agency Certificates of Compliance.

ROCK SOLID PERFORMANCE. TIMELESS COMPATIBILITY.



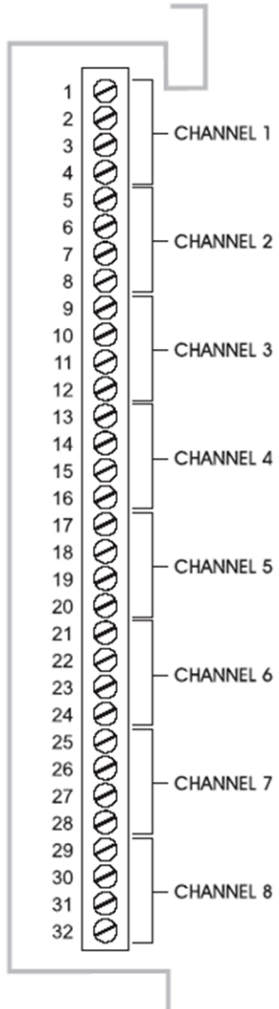
Control Technology Inc.

5734 Middlebrook Pike, Knoxville, TN 37921-5962

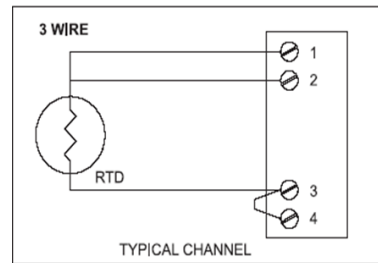
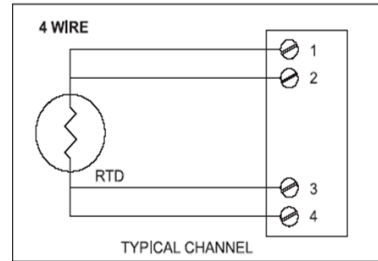
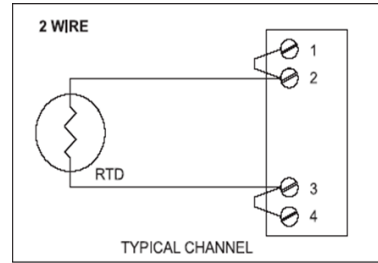
Phone: +1.865.584.0440 Fax: +1.865.584.5720

www.controltechnology.com

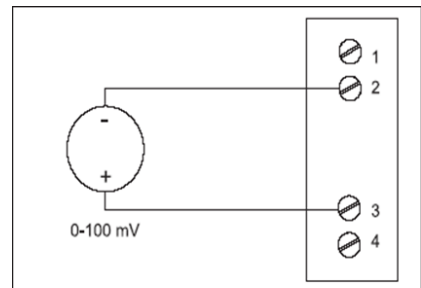
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2552-A Input Connector



2552-A RTD Wiring Applications



2552-A Millivolt Wiring Application

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