

2559-RTD

8-Channel RTD Input Module



Description

The 2559-RTD is a high-speed 8-channel RTD input module designed to be compatible with the SIMATIC® 505 I/O base. The Model 2559-RTD translates RTD input signals into scaled temperature values.

Features

- CTI 2500 Series® or Simatic® 505 base format
- 1500V channel-PLC backplane isolation
- Fast 25ms update time for all channels
- Detects open in RTD or field wiring
- Compensates for lead resistance

Specifications

Input Channels:

8 RTD input channels

Supported RTD Types:

Platinum 0.003850 (European DIN)

Platinum 0.003916 (American)

Platinum 0.003902

Platinum 0.003920

Copper 0.004274

Nickel 0.006720

Nickel 0.006178 (European DIN)

Supported Ohm Values @ 0°C:

100Ω, 120Ω, 130Ω, 200Ω, 500Ω, 1000Ω, 10Ω, 9.03Ω

Supported Probe Types:

2,3, 4 wire

RTD Excitation Current:

250μA

Lead Compensation:

1000Ω per lead wire (max)

Input Overrange Protection:

30VDC or VAC continuous

Measurement Ranges:

10Ω Cu: -100°C to 260°C (-148°F to 500°F)

100Ω Pt: -200°C to 850°C (-328°F to 1562°F)

120Ω Pt: -80°C to 260°C (-112°F to 500°F)

Output Units:

°C, °F, ohms (selectable)

Repeatability:

+0.1°C, ±0.2°F

Resolution:

0.1°

Accuracy:

100Ω Pt 0.9°C (1.6°F) from 0-60°C

0x100 0.36Ω from 0-60°C

Update Time:

25 mSec (all channels, no filtering)

Common Mode Rejection:

>130db @ 60Hz

Normal Mode Rejection:

>80db @ 60Hz

Isolation:

1500 VDC channel-to-PLC

Standard Shipping Configuration:

3 wire 100Ω platinum

Digital filtering enabled

Degrees C

Connector: standard CTI 2500-40F 40-position removeable connector, 14-22 AWG

Backplane Power: 2.8W @ 5 VDC

Module Size: Single-wide

Operating Temperature: 0° to 60°C (32° to 140°F)

Agency Approvals Pending: UL, ULC, CE, FM (Class 1, Div.2)

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.



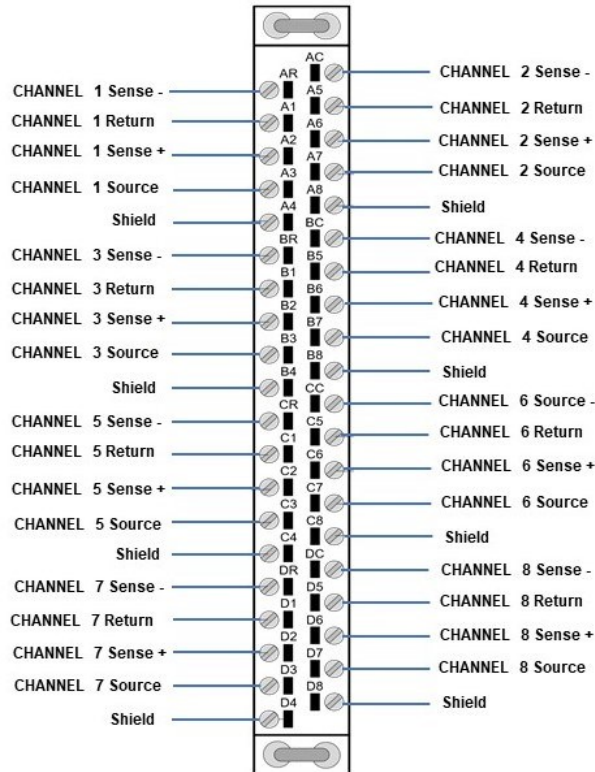
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2559-RTD 8-Channel RTD Input Module



2559-RTD 8-Point Wiring Connector

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