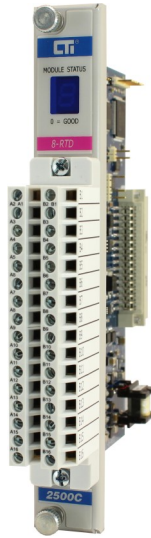




2500C-8-RTD



2500C-8-RTD

The 2500C-8-RTD is a high-speed 8-point RTD input module designed to translate RTD signals into a scaled temperature value. This module is designed to work in a CTI 2500 Series Compact I/O base.

Key Features

- 8 RTD inputs
- Supports Classic and Classic Plus Modes
- 7 Segment Display for Module Status indication
- No user calibration
- Supports 2, 3 and 4 wire RTDs
- Software Configurable Range Selection
- Uses 2500C-32F removable wiring connector

2500-8-RTD Default Shipment Settings	
Operation Mode	Classic Mode
Logon	8WX
RTD	100Ω Pt
RTD Type	3 Wire
Temperature Units	Degrees C
Digital Filtering	Enabled

2500C-8-RTD Specifications		
Parameter	Classic Mode	Classic Plus Mode
Inputs	8 RTD Inputs	
Logon	8WX	16WX/8WY
Resolution	9 mSec	
Update Rate	1000 mSec or 1 second	
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)	
RTD Resistance	100Ω, 120Ω, 130Ω, 200Ω, 500Ω, 1000Ω, 10Ω, 9.03Ω	
Temperature Range	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)	
RTD Wire Config	2, 3, 4 Wire	
Current	250μA	
Impedance	1000Ω per lead wire (max)	
Accuracy	±0.1°C, ±0.2°C for all RTD Types	
Units	Degrees C or Degrees F selectable	
Resolution	0.1°C	
Power	100Ω Pt 0.90c (1.6°F) from 0-60°C Ωx100 0.36Ω from 0-60°C	
Frequency	>130db @ 60Hz	
Isolation	-80db @ 60Hz,	
Power	1.123 watts	
Compliance	IEC 1000-4-2 Level 4	
Voltage	30VDC or VAC continuous	
Isolation	Channel to Backplane 1500VDC	
Temperature	0°C to 60°C (32°F to 140°F)	
Standards	UL, ULC, UL Class 1, Div 2, CE	
Dimensions	223.84mm x 109.86mm x 34.93mm, 0.234kg	
Temperature	-40°C to 85°C (-40F to 185°F)	
Humidity	5% to 95% (non-condensing)	



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Channel 2 Source	A1		B1	Channel 1 Source
Channel 2 Sense +	A2		B2	Channel 1 Sense +
Channel 2 Sense -	A3		B3	Channel 1 Sense -
Channel 2 Return	A4		B4	Channel 1 Return
Channel 4 Source	A5		B5	Channel 3 Source
Channel 4 Sense +	A6		B6	Channel 3 Sense +
Channel 4 Sense -	A7		B7	Channel 3 Sense -
Channel 4 Return	A8		B8	Channel 3 Return
Channel 6 Source	A9		B9	Channel 5 Source
Channel 6 Sense +	A10		B10	Channel 5 Sense +
Channel 6 Sense -	A11		B11	Channel 5 Sense -
Channel 6 Return	A12		B12	Channel 5 Return
Channel 8 Source	A13		B13	Channel 7 Source
Channel 8 Sense +	A14		B14	Channel 7 Sense +
Channel 8 Sense -	A15		B15	Channel 7 Sense -
Channel 8 Return	A16		B16	Channel 7 Return

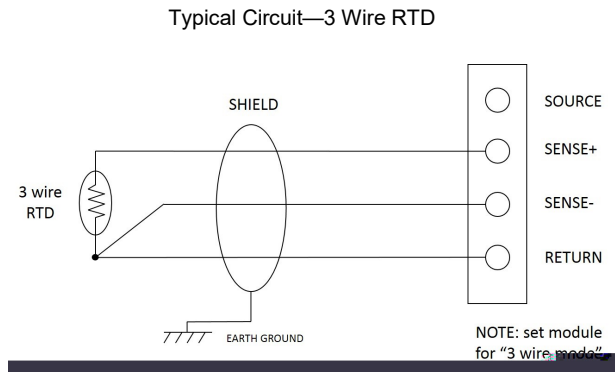
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Note:
The 2500C-8-RTD Input Module uses CTI Wiring Connector 2500C-32F. Please see the wiring connector specification table below. This connector is ordered separately from the module.

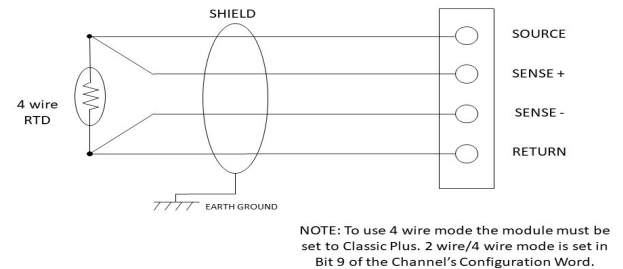
2500C-32F Specifications	
7cbbYWhcf'GhmY	Removable
Bi a VYf'cZ' K]f]b[`7cbbYWh]cbg	32 point
K]fY' ; Ui [Y	14 to 22AWG
GWfYk'Hcfe iY'JU' iY	5.22 lb-in
7 i ffYbh'FUh]b[6A @ 300VAC
-bg i`Uh`cb`Ghf]dd]b[`@Yb[h\	0.24" 6mm
Connector Material	
6cXm.'	Polycarbonate UL 94V0
GWfYk'.'	M3 Zinc plated Steel
7U[Y'7'Ua d	Nickel Plated Brass
GcW_Yh`7cbbUWh'Gdf]b[.'	Tin Plated Bronze
FYhU]b]b[`GWfYk.'	M3 Zinc Plated Steel

7 Segment LED Code Description	
0	Normal Operation
A	Internal RAM Fail
b	Code Memory Failure
C	Internal MOVx RAM Failure
d	Shared RAM Failure
L	Lookup Table Flash Failure

Typical Circuit—2 Wire RTD



Typical Circuit—4 Wire RTD



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