Standard Analog ICTD Module

Features

- Single channel of optically-isolated current-to-digital conversion
- designed for use with an ICTD probe from Opto 22 or from other vendors
- can be used in energy management, freezer control, and similar appllications

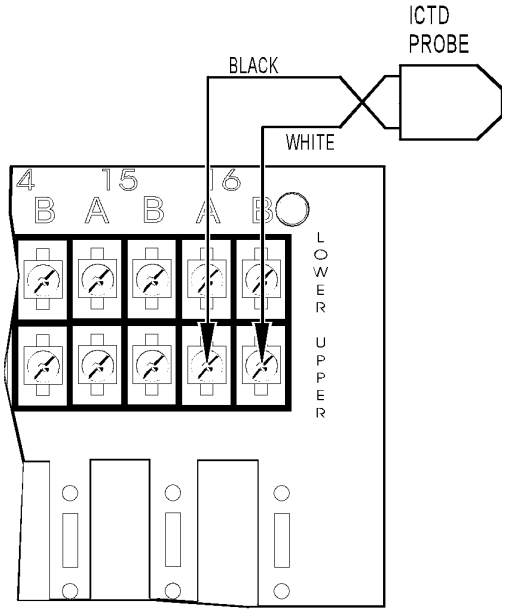
AD4 (shown with ICTD Temperature Probe)

Description

The AD4 module provides a single channel of optically-isolated temperature-to-digital conversion. Modules plug into any Opto 22 standard analog I/O rack and are secured by a captive screw. Field connections to the module are made via two terminals on the analog I/O rack.

The AD4 module is designed for use with an ICTD probe from Opto 22 or from other vendors. See form 2072, the *ICTD Temperature Probes Data Sheet*, for more information

AD4 Connection Diagram



Specifications

Input Temperature Range	- 188.4 °C to 150 °C
Input Response Time	5% full scale step change in 7.8 seconds 63% full scale step change in 150 seconds
Accuracy of AD4 Accuracy with ICTD Probe	± 0.3 °C ± 0.8 °C
Resolution with ICTD Probe	0.083 °C
Power Requirements: Module Logic	 16 mA at +15 (+/- 0.25) VDC 11 mA at -15 (+/- 0.25) VDC 1.6 mA at 5 VDC
Thermal Time Constant	2.5 minutes typical (still air)
Cable Length	> 2,000 feet (610 meters)
Isolation Input-to-Output	 4,000 Vrms
Ambient Temperature Operating Storage	 0 °C to 70 °C -25 °C to 85 °C

Part Number

Part	Description
AD4	ICTD Temperature Input