

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. The ICTD probe is encapsulated and completely isolated from ground loop possibilities. The ICTD can be used in energy management, freezer control, and similar applications.

Part Number	Description
AD4	ICTD Temperature Input
ICTD	ICTD Temperature Probe



Specifications

AD4

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:	16 mA at +15 VDC 11 mA at -15 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