

DATA SHEET

page 1/2

Form 429-050809

Part Number	Description
G4AD4	ICTD Temperature Input

Description

The G4AD4 module works in conjunction with any standard ICTD temperature probe and provides a single channel of optically-isolated temperature-to-digital conversion. Modules plug into an Opto 22 Modular controller or an analog I/O brick and are secured by a captive screw. Field connections are made to the terminal strip located on the brick base or controller I/O board. The G4AD4 module also includes complete electrical channel-to-channel isolation which eliminates troublesome ground loop problems. The ICTD can be used in energy management, freezer control, etc. The G4AD4 module is compatible with Opto 22's ICTD probe and all other industry standard ICTDs.

NOTE: Any system using analog sensors and input modules should be calibrated annually for analog signals. To do so, use OptoControl commands "Calculate and Set Analog Offset" and "Calculate and Set Analog Gain."



Features

- Small Size, Rugged packaging
- Optical & Transformer Isolation
- 4000 Vrms Transient
- Runs on a Single 24 VDC Supply
- Factory-calibrated, no user adjustment necessary
- 12-bit Resolution
- Operating temperature 0° to 70° C

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Specifications G4AD4 WITH ICTD

Input Temperature Range G4AD4 ICTD Probe	-188.4°C to 150°C - 40°C to 100°C
Input response time	5% full scale step change in 7.8 seconds 63% full scale step change in 150 seconds
Output accuracy*	±0.8°C
Resolution	12 bits
Thermal time constant (ICTD)	2.5 minutes typical (still air)
Cable length	> 2,000 feet (610 meters)
Isolation(Transient) Input-to-output Input-to-analog supply	4,000 Vrms 4,000 Vrms
Module Ambient Temperature Operating	-30°C to 70°C -40°C to 85°C

* Accuracy figure requires use of gain and offset commands.

Connections

