CIO-EXP-RTD16 Series 16-Channel RTD Multiplexer for CIO Series Plug-In Cards

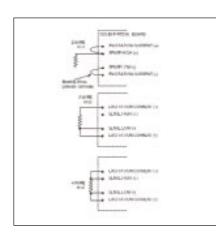


- Multiplex up to 256 RTD Inputs
- ✓ 2-, 3- or 4-Wire RTD Support
- On Board Excitation Current

3 YEAR WARRANTY

The CIO-EXP-RTD16 multiplexer and signal conditioner expands the total number of analog input channels of any CIO Series A/D board up to 256 channels, and is specifically designed for Resistance Temperature Devices (RTD's). Each CIO-EXP-RTD16 will accept 16 RTD inputs, and is multiplexed into one of the CIO-DAS800/08 (expands up to 128 inputs) or CIO-DAS1600/1400/16 (expands up to 256 inputs) A/D board's analog input channels.

The inputs of the CIO-EXP-RTD16 are designed to provide the excitation and signal conditioning required to use RTD's. RTD's may have 2, 3 or 4 wires which you must connect to the measurement instrument; in this case, a CIO-EXP-RTD16. The three types of RTD16 connections and how to connect them to the input channels are shown below.



\$799 Basic Unit

Connector

Signals from the CIO-EXP-RTD16 exit the board via a 37 D type connector. The pin assignments are consistent with the other CIO-EXP boards, and connect directly to the CIO-DAS800/08 and CIO-DAS1600/1400/16 families of data acquisition boards. Power for the EXP is drawn from a MOLEX connector or directly from the PC.

Specifications

ANALOG INPUTS Channels: 16, fully differential Gains: 1, 2, 4, 7, 8, 14, 28, 56 Excitation current: 1 mA Temperature resolution: (12-bit A/D board) -200 to 200°C input range, 0.109°C -200 to 400°C input range, 0.218°C assumes .00385 alpha, 100 ohm Platinum RTD ENVIRONMENTAL Operating temperature range: 0 to 60°C (32 to 140°F) Storage temperature range: -40 to 100°C (-40 to 212°F)

Humidity: 0 to 90% non-condensing

To Order (Specify Model Number) **Model Number** CIO-EXP-RTD16 \$799 16-channel RTD multiplexer board CIO-EXP-RTD16/DST 869 16-channel RTD multiplexer board with detachable screw terminals 2' flat ribbon cable for connecting CIO-EXP-C37FF-2 25 RTD16 to CIO-DAS800/08 series input cards **C37FFS-5** 35 5' shielded cable for connecting CIO-EXP-RTD16 to CIO-DAS800/08 series interface cards C-EXP2DAS16-10 10' cable for connecting CIO-EXP-RTD16 to 40 CIO-DAS1600/1400/16 series interface cards Screw terminal panel, 16 x 4" (406 x 102 mm) **CIO-TERMINAL** 99 with protype area

The CIO-EXP-RTD16 series comes with a complete user's manual.

Ordering Example: CIO-EXP-RTD16 multiplexer, one C37FF-2 cable (assuming unit is to be connected to a CIO-DAS08), and OMEGACARESM 1- year extended warranty for CIO-EXP-RTD16 (adds 1 year to standard 3- year warranty), \$799 + 25 + 80 = \$904

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