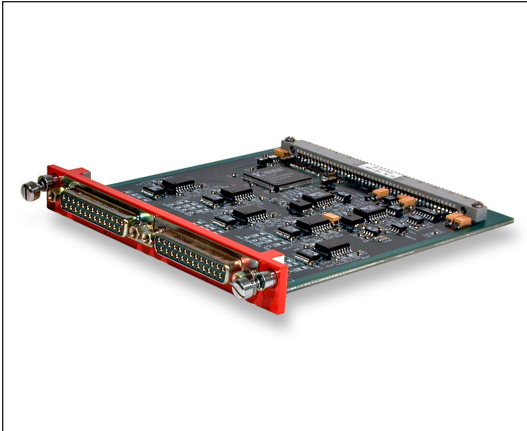


## 10-Channel RTD Conditioner with Multiplexed Current Excitation



### Applications

- Flight Test Instrumentation
- Factory Automation and Process Control
- Research Measurements and Experiments

### Features

- 10-Channel RTD Conditioner Card
- Interfaces to 3 and 4 Wire RTD's
- Dual Tracking Constant Current Excitation per Card
- Compatible with the EDAU/CDAU/WDAU-20XX System
- > 10,000 Software Programmable Gains per Card
- $\pm 0.5\%$  System Accuracy
- Zero Calibration and Voltage Substitution
- 1,000 Megohms Input Impedance
- $\pm 35\text{VDC}$  Overvoltage Protection
- Programmed with Windows Based Software
- Windows 95/98/NT/2000 Software Included

### Description

The RTD-110W is a 10-channel RTD signal conditioning card for use in TTC's EDAU/CDAU/WDAU-20XX series products. It is designed to interface to 3 and 4 wire RTDs. The module provides dual-tracking constant current excitation and signal conditioning for 3 and 4 wire RTD inputs. The excitation is multiplexed to each channel resulting in minimal transducer self-heating. The excitation level is programmable by the user. Provisions were made to allow the use of a single completion resistor (external-user selected). Each channel has programmable gain and offset capability. The conditioned analog signal is digitized at up to 12-bit resolution for transmission in the system PCM output format.

Revision 05/12/2015

### RTD-110W Datasheet

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Specifications subject to change without notice.

Approved for Public Release 16-S-1213



CAIS  
Compatible



Management  
System  
AS9100C  
ISO 9001:2008

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