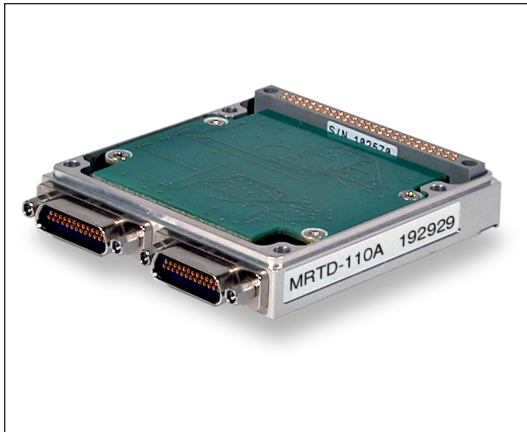


10-Channel RTD Conditioner w/Multiplexed Current Excitation



Applications

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

Features

- 10-Channel RTD Conditioner Module
- Interfaces to 3 and 4 Wire RTDs
- Dual Tracking Constant Current Excitation per Module
- Compatible with the MEDAU/MCDAU-2000 System
- > 10,000 Software Programmable Gains per Module
- $\pm 0.5\%$ System Accuracy
- Zero Calibration and Voltage Substitution
- 1,000 Megohms Input Impedance
- +/- 35VDC Overvoltage Protection
- Programmed with Windows Based Software
- Windows 95/98/NT/2000 Software Included

Description

The MRTD-110A is a 10-channel RTD signal conditioning module for use in TTC's MEDAU-2000 or MCDAU-2000 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 (internal-factory installed, 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

MRTD-110A Datasheet

©2015 Teletronics - A Curtiss-Wright Company
 Specifications subject to change without notice.

Approved for Public Release 16-S-0917



CAIS
Compatible



Management
System
AS9100C
ISO 9001:2008

Teletronics - A Curtiss-Wright Company
 15 Terry Drive, Newtown, PA 18940
 phone: 267.352.2020 fax: 267.352.2021 Sales@ttcdas.com

www.ttcdas.com