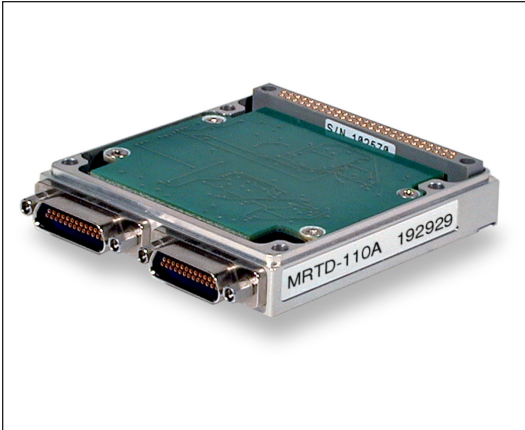


## 10-Channel RTD Conditioner w/Multiplexed Current Excitation



### 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.

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### MRTD-110A Datasheet

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Specifications subject to change without notice.



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