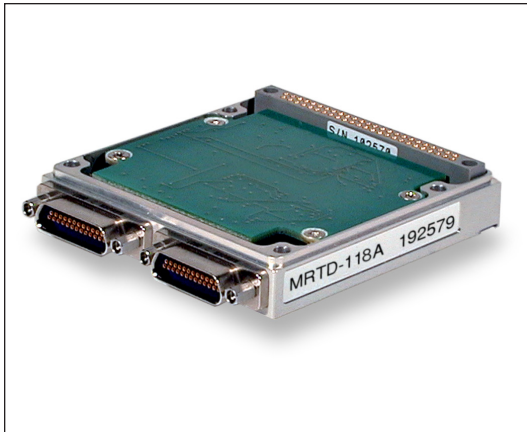


18-Channel RTD Conditioner w/Multiplexed Current Excitation



Applications

- Flight test instrumentation
- Factory automation and process control
- Research measurements and experiments

Features

- 18-channel RTD conditioner module
- Dual tracking constant current excitation per module
- Compatible with the MnDAU/MnWDAU/MnACQ-2000 system
- >10,000 software programmable gains per module
- $\pm 0.5\%$ system accuracy
- 1,000 Megohms input impedence
- $\pm 35\text{VDC}$ overvoltage protection
- Microsoft Windows application software included

Description

The MRTD-118A is an 18-channel RTD signal conditioning module for use in TTC's miniature, stackable data acquisition products. The module provides dual-tracking constant current excitation and signal conditioning for RTD inputs. The excitation is multiplexed to each channel resulting in minimal transducer self-heating. The excitation level is programmable by the user. Provisions are 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 data output format.

Revision 05/12/2015

MRTD-118A Datasheet

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Specifications subject to change without notice.

Approved for Public Release 16-S-0923

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



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