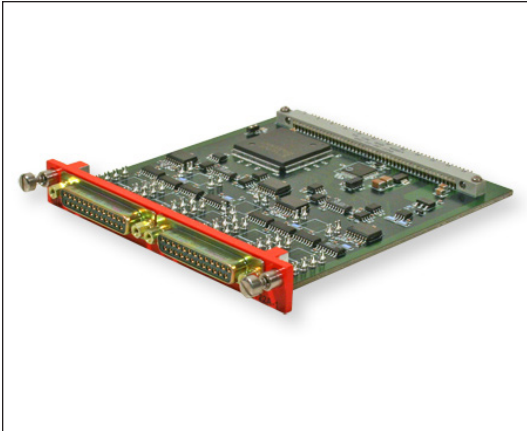


22-Channel RTD Signal-Conditioning Card w/Current Excitation



Applications

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

Features

- 22-channel RTD signal-conditioning card
- Dual tracking constant current excitation
- Dynamic parasitic offset cancellation
- > 14,000 software programmable gains
- Programmable moving average filter
- Up to 16 bits of resolution
- $\pm 0.5\%$ system accuracy
- 1,000 Megohms input impedance
- $\pm 35\text{VDC}$ overvoltage protection
- Compatible with the CDAU/EDAU/WDAU-20XX systems
- Microsoft Windows application software included

Description

The RTD-122A-1 is a 22-channel RTD signal-conditioning card for use in TTC's EDAU-20XX, CDAU-20XX or WDAU-20XX series products. The card 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 on a per-channel basis by the user. User configurable, on-card resistor completion is provided on a per-channel basis and also on a group basis (groups are channels 1 to 6, 7 to 12, 13 to 17 and 18 to 22). Each channel has programmable gain and programmable offset capability. The conditioned analog signal is digitized at up to 13-bit resolution for transmission in the system PCM output format. The output resolution can be increased up to 16-bit through the use of a moving average filter.

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RTD-122A-1 Datasheet

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