

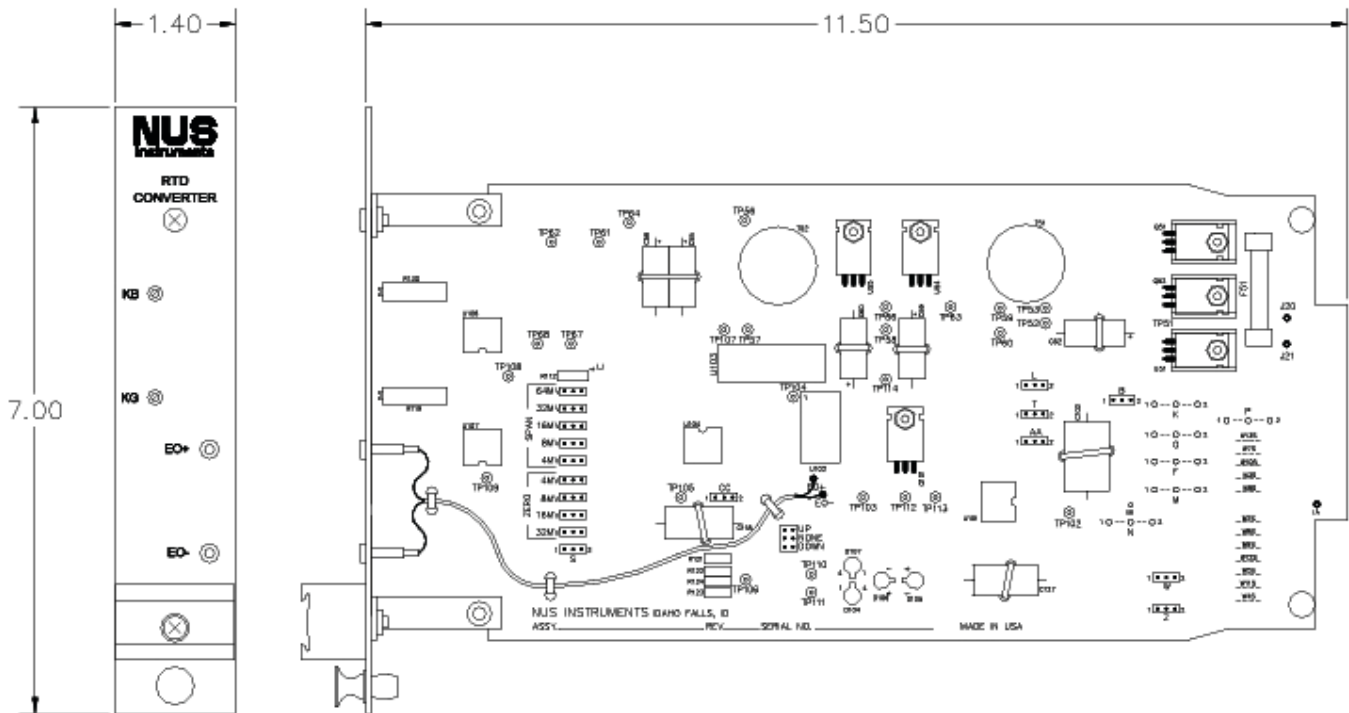
RTD2000-7403 Resistance Temperature Detectors (RTD)

The RTD2000-7403 Resistance Temperature Detectors (RTD) Converter replaces the obsolete Bailey Type 7403 RTD converter while retaining the functions of the Bailey converter, and is available in a Nuclear Qualified model.

The RTD2000-7403 converts resistance input signals to the following dc output signals: 1 V to 5 V; -10 V to 10 V; or 4 mA to 20 mA. Standard input to output isolation is 127 V RMS, 287 Vdc. Output signal selection is performed by user-selectable jumpers. The RTD2000-7403 is used with RTDs or other sensors which have a resistance output. The front panel contains adjustments for zero and span, and test jacks for measuring the output signal.



RTD2000-7403



NUSI 2000 Series

Proportional & Delay Module

SPECIFICATIONS

Input Signal:	10 Ω Copper RTD: 0 Ω to 0.4 Ω , through 0 Ω to 24 Ω Zero adjustment: 0 Ω to 22 Ω RTD energized with 5 mA dc 100 Ω Platinum RTD: 0 Ω to 4.0 Ω , through 0 Ω to 240 Ω Zero adjustment: 0 Ω to 220 Ω RTD energized with 0.5 mA dc
Input Impedance:	250 k Ω , minimum
Output Signals:	1 V to 5 Vdc into 1.5 k Ω or greater 4 mA to 20 mA dc into 0 Ω to 600 Ω -10 V to 10 Vdc into 2 k Ω
Accuracy:	> 10 mV span, $\pm 0.3\%$ of span 2 mV to < 10 mV span, 0.3% x 10 mV/span
Frequency Response:	3 db down at 6 Hz, Phase angle < 80° nominal at 3 db down
Operating Influences:	Supply voltage: $\pm 0.05\%$ of output span
Temperature Effects:	$\pm 0.5\%$ span from 40 °F to 120 °F (5 °C to 49 °C)
Power Supply Voltage:	< 145 mA @ 24 V ± 2 Vdc (22 V to 28 Vdc operative limits)
Operating Influence:	Supply Voltage: 24 V ± 2 Vdc ($\pm 0.05\%$ of Output Span)
Ambient Temperature:	40 °F to 120 °F (5 °C to 49 °C) (normal operation) 0 °F to 140 °F (-18 °C to 60 °C) (operative limits) 0 °F to 120 °F (-18 °C to 49 °C) (storage)
EMI/RFI Protection:	EPRI report TR-102323, Rev. 2
Seismic Qualification:	NUS Instruments Composite Required Response Spectra (RRS)
Dimensions:	1.4 in x 7 in x 11.5 in
Weight:	Net 1 lb
Mounting:	Bailey mounting only in Type 761 chassis; module is one unit wide
Legend:	Translucent legend holder integral with withdrawal handle

For more information please request a
RTD Converter Operation & Maintenance Manual.

CONTACT INFORMATION:

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