

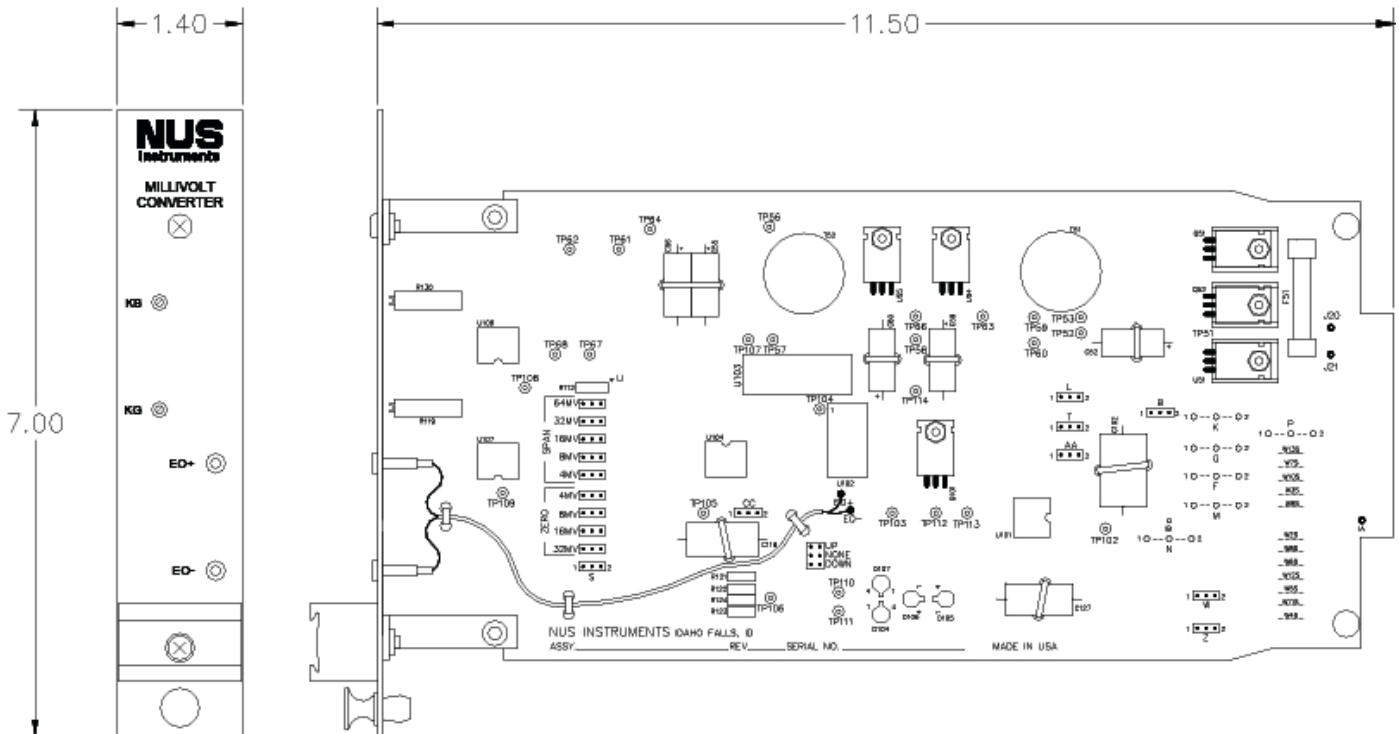
### MIL2000-7401 Millivolt Converter

The MIL2000-7401 Millivolt Converter replaces the obsolete Bailey Type 7401 millivolt converter while retaining the functions of the Bailey converter, and is available in a Nuclear Qualified model.

The MIL2000-7401 converts a millivolt or thermocouple input signal to an output signal of: 1 V to 5 V dc; -10 V to 10 V dc; or 4 to 20 mA. Output signal selection is done via circuit board jumpers. The MIL2000-7401 is designed for use with thermocouples or other sensors that have a millivolt output. The front panel contains adjustments for zero and span, and test jacks



MIL2000-7401



# NUSI 2000 Series

## Millivolt Converter

### SPECIFICATIONS

Input Signal:	0 mV to 2 mV, to 0 mV to 120 mV (mV to TC converter) Zero adjustment: 0 mV $\pm$ 60 mV
Input Impedance:	250 k $\Omega$ minimum
Input Series Resistance Effect:	0.2% increase in error for each 1 k $\Omega$ of series resistance in the input circuit
Output Signals:	1 V to 5 V dc into 1.5 k $\Omega$ or greater 4 mA to 20 mA dc into 0 $\Omega$ to 600 $\Omega$ -10 V to +10 V dc into 2 k $\Omega$
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
Temperature Effect:	$\pm$ 0.5% span for 40 °F to 120 °F (5 °C to 49 °C)
Power Supply Voltage:	130 mA nominal @ 24 V $\pm$ 2 V dc (22 V to 28 V dc operative limits)
Operating Influence:	Supply Voltage: 24 V $\pm$ 2 V dc ( $\pm$ 0.05%)
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:	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  
**Millivolt Converter Operation & Maintenance Manual.**

#### CONTACT INFORMATION:

Curtiss-Wright Nuclear Division / I&C Products  
1350 Whitewater Drive, Idaho Falls, ID, 83402 T: (208) 497.3333