

Precision Multifunction T/C, RTD, mA, mV Calibrator

0.03% accurate calibration source
simulates and measures thermocouples,
RTD, mA and voltage

Features

- Precision source for NIST and ISO calibrations
- Suitable for field or lab applications
- Current and Voltage ranges are programmable in engineering units
- Algorithms of thermocouples and resistance thermometers are in accordance with IEC and DIN standards
- Microprocessor performs automatic polynomial linearization and cold junction compensation to assure high accuracy of 0.03% of reading
- Automatic compensation from 23 to 122°F (-5 to 50°C)
- Polycarbonate membrane key board
- Large 16 character LCD dot matrix display is easy to read
- 60 values stored in memory for 7 different simulation programs
- Single value, multistep or continuous ramp/cycle simulation
- Made under strict ISO 9001 quality guidelines
- Optional MeterBOSS software and PortMUX enables user to multiplex and monitor up to 16 calibrators
- Complete with four Ni-Cd batteries, recharger and leather carrying case.



Optional bi-directional
RS232 interface and
software on 3.5" diskette
enables user to read &
operate calibrator from PC



Specifications:	Range		Resolution	Accuracy (% of reading @64-84°F)
J:	-274 to 2192 °F	-170 to 1200 °C	0.1 °F/C	±0.03% +0.18°F; ±0.03% +0.1°C
K:	-184 to 2372 °F	-120 to 1300 °C	0.1 °F/C	±0.03% +0.18°F; ±0.03% +0.1°C
T:	-184 to 752 °F	-120 to 400 °C	0.1 °F/C	±0.03% +0.18°F; ±0.03% +0.1°C
R:	932 to 3092 °F	500 to 1700 °C	0.1 °F/C	±0.03% +0.54°F; ±0.03% +0.3°C
S:	1472 to 3200 °F	800 to 1760 °C	0.1 °F/C	±0.03% +0.54°F; ±0.03% +0.3°C
C:	32 to 4172 °F	0 to 2300 °C	0.1 °F/C	±0.03% +0.72°F; ±0.03% +0.4°C
B:	1832 to 3308 °F	1000 to 1820 °C	0.1 °F/C	±0.03% +0.72°F; ±0.03% +0.4°C
G:	392 to 4172 °F	200 to 2300 °C	0.1 °F/C	±0.03% +0.72°F; ±0.03% +0.4°C
D:	32 to 3992 °F	0 to 2200 °C	0.1 °F/C	±0.03% +0.72°F; ±0.03% +0.4°C
U:	-184 to 752 °F	-120 to 400 °C	0.1 °F/C	±0.03% +0.18°F; ±0.03% +0.1°C
L:	-292 to 1400 °F	-180 to 760 °C	0.1 °F/C	±0.03% +0.18°F; ±0.03% +0.1°C
N:	32 to 2372 °F	0 to 1300 °C	0.1 °F/C	±0.03% +0.18°F; ±0.03% +0.1°C
E:	-238 to 1832 °F	-150 to 1000 °C	0.1 °F/C	±0.03% +0.18°F; ±0.03% +0.1°C
Pt100Ω:	-328 to 1112 °F	-200 to 600 °C	0.1 °F/C	±0.03% +0.18°F; ±0.03% +0.1°C
Ni100:	-76 to 356 °F	-60 to 180 °C	0.1 °F/C	±0.03% +0.18°F; ±0.03% +0.1°C
Ni120:	32 to 302 °F	0 to 150 °C	0.1 °F/C	±0.03% +0.18°F; ±0.03% +0.1°C
mV:	-18 to 21,	0 to 100mV	1µV	±0.03% +3µV; >50: ±0.03% +6µV
		0-1000mV	1µV	±0.03% +60µV
mA:		0 to 21mA	1µA,	±0.03% +0.5µA
Resistance:		0 to 400Ω	10mΩ	±0.03% +38mΩ
Dimension / Weight: 9x4x2" (230x120x60mm) / 3.5 lbs. (1.5 kgs)				

Ordering Information

423901Precision Multifunction Calibrator 117VAC adaptor
 423902Precision Multifunction Calibrator 220VAC adaptor
 423903-X.....Intrinsically safe Multifunction Calibrator 117VAC adaptor
 423923RS232 Interface, cable, software on 3.5" diskette

For optional Certificate of Traceability to NIST use part number with suffix "-NIST". Meter list price plus \$150.