

# Precision Multifunction Calibrator

**Accurate calibration source**  
For thermocouple, mA, mV, V and frequency inputs

## Features:

- Source 4 to 20mA, 0 to 20mA or 0 to 24mA with 0.001mA resolution
- Select Type K, J, T or E thermocouple for precision calibrations in °F or °C
- Output 0 to 100.00mV, 0 to 1.0000V or 0 to 10.000V
- Frequency source of 1Hz to 62.5kHz in over 700 steps
- Maximum current load 1000Ω
- User can easily set output steps from 1% to 100%
- Basic 4 to 20mA process loop accuracy of 0.025%
- Large 5 digit LCD display
- Step and auto-ramp features
- Simple keypad operation
- Audible warning if load is open with mA output or shorted with V output
- Powered by internal 9V battery or external battery pack (attaches to meter stand) for extended field applications or optional AC adaptor
- Complete with 9V battery, external battery pack, carrying case, alligator clips, Type K and Type J test cables



Specifications	Ranges	Basic Accuracy
DC Current (mA)	4 to 20.000mA, 0 to 20.000mA, 0 to 24.000mA	±(0.025%+3μA)
DC Voltage	0 to 100.00mV 0 to 1.0000V 0 to 10.000V	±(0.05%+30μV) ±(0.05%+300μV) ±(0.05%+3mV)
Type K	-328 to 32°F (-200 to 0°C) 32 to 2400°F (0 to 1370°C)	±2.0°F (1.1°C) ±1.5°F (0.8°C)
Type J	-148 to 32°F (-100 to 0°C) 32 to 1400°F (0 to 760°C)	±1.6°F (0.9°C) ±1.2°F (0.7°C)
Type E	-148 to 32°F (-100 to 0°C) 32 to 1292°F (0 to 700°C)	±1.6°F (0.9°C) ±1.2°F (0.7°C)
Type T	-328 to 32°F (-200 to 0°C) 32 to 752°F (0 to 400°C)	±1.8°F (1.0°C) ±1.5°F (0.8°C)
Frequency	1 to 62500Hz	±(0.01% + 0.04Hz)
Power	9V battery or external battery pack (6xAA batteries) or optional AC adaptor	
Dimensions	3.46 x 6.61 x 1.03" (88 x 168 x 26mm)	
Weight	11.63oz (330g)	

## Ordering Information:

422123 ..... Precision Multifunction Calibrator  
422123-NIST ..... 422123 with NIST Certificate  
149116 ..... 115V AC Adaptor  
159220 ..... 220V AC Adaptor

