



## **Multifunction Process Calibrator**

**Precision Simultaneous Source and Measure** 

For thermocouples (Types R, S, J, K, T, E, N and B), RTD, mA, mV, V, Hz, and  $\Omega$  devices

## **Features:**

- Simultaneously source excitation voltage and measure mA output of 2-wire transmitters
- Source 0 to 22mA with 1µA resolution
- Measure 0 to 50mA (1µA resolution)
- Select Type R, S, J, K, T, E, N, or B thermocouple and RTD (Pt100, Pt1000) for precision calibrations in °F/°C
- Output 0 to 100mV, 0 to 1V, or 0 to 10.0000V
- Measure 0 to 50.00V
- Single/continuous step function for Voltage and Current
- Self-contained 24V loop power supply drives current loads up to  $1000\Omega$
- · Complete with four AAA batteries and test leads



Specifications	Range	Accuracy
Source		
Current	0.000 to 22.00mA	$\pm$ (0.02% of reading $\pm$ 0.02%Range)
Voltage	-1.0000V to 11.0000V	$\pm (0.02\% \text{ of reading } \pm 0.01\% \text{Range})$
Resistance	0.00 to 40.000KΩ	$\pm$ (0.02% of reading $\pm$ 0.025%Range)
Type J	-328 to 2192°F (-200 to 1200°C)	±1.2°F or 0.7°C
Type K	-328 to 2501°F (-200 to 1372°C)	±1.6°F or 0.9°C
RTD (Pt100)	-328 to 1472°F (-200 to 800°C)	±1.4°F or 0.8°C
Frequency	1.00Hz to 110kHz	±2 digits
Pulse	1.0 to 100000 cycles	±2 digits
Switch (open/close)	1.00Hz to 110kHz	±2 digits
Loop Power	24V	±10%
Max. Load	1000 @ 20mA	
Measure		
Current	-5.000 to 55.000mA	$\pm (0.02\% \text{ of reading } \pm 0.01\% \text{Range})$
Voltage	-5.000mV to 55.00V	$\pm (0.02\% \text{ of reading } \pm 0.01\% \text{Range})$
Resistance	$0.00$ to $5.5000$ k $\Omega$	$\pm (0.05\% \text{ of reading } \pm 0.02\% \text{Range})$
Type J	-76 to 2192°F (-60 to 1200°C)	±1.8°F or 1.0°C
Type K	-148 to 2501°F (-100 to 1372°C)	±2.1°F or 1.2°C
RTD (Pt100)	-328 to 1472°F (-200 to 800°C)	±1.4°F or 0.8°C
Frequency	3Hz to 50.000kHz	±2 digits
Continuity	<50Ω	
Dimensions/Weight	8 x 3.7 x 1.7" (205 x 95 x 42mm)/1.1lbs (500g)	

## **Ordering Information:**

PRC70 ......Multifunction Calibrator PRC70-NIST ..PRC70 with NIST Certificate

