



Microprocessor Calibrator Thermometer

Source and Measure 8 thermocouple type devices

One model for multiple thermocouple types (J, K, T, E, C, R, S and N) with precision output displayed as mV or °C/°F



Edificio Antalia, Albasanz 16, 28037 Madrid +34 91 567 97 00 | alavaingenieros.com | alava@alava-ing.es Madrid | Barcelona | Zaragoza | Lisboa | Lima | Quito | Texas

Features:

- High accuracy calibration function simulates precision thermocouple outputs for use in calibrating thermometers, transmitters, controllers or recorders
- Basic accuracy of ±0.15% of reading over wide ranges
- 0.1°/1° resolution for J, K, T and E Types; 1° for C, R, S and N Types
- Five stored calibration values for fast calibrations
- · Displays output in terms of millivolts or temperature based on thermocouple tables
- 4 digit LCD display is easy to read with thermocouple type indication
- Unique handheld Oyster case design features large digital display built into "flip-up" cover automatically shuts off when closed
- Portable and rugged industrial design for field, plant or benchtop use
- Operates on alkaline batteries, rechargeable batteries or AC adaptor
- Standard Thermometer Calibration cables (terminated with subminiature connectors on either side) comes standard with the meter. Optional Process Calibration Cable is terminated with spade lug for process applications





Specifications	Ranges for Calibrate and Measure modes		Accuracy
Type J	-58 to 1830°F	(-50 to 1000°C)	0.15% rdg ±1°
Type K	-58 to 2498°F	(-50 to 1370°C)	0.15% rdg ±1°
Type T	-184 to 752°F	(-120 to 400°C)	0.15% rdg ±1°
Type E	-58 to 1382°F	(-50 to 750°C)	0.15% rdg ±1°
Type C	32 to 3272°F	(0 to 1800°C)	0.15% rdg ±1°
Type R	32 to 3182°F	(0 to 1750°C)	0.15% rdg ±1°
Type S	32 to 3182°F	(0 to 1750°C)	0.15% rdg ±1°
Type N	-58 to 2372°F	(-50 to 1300°C)	0.15% rdg ±1°
Voltage	-5.00mV to +55.00mV	10μV	10μV ±1d
Resolution	0.1° (up to 999.9) or 1° (over 999.9°)		
Cold Junction Compensation	0.03°C/°C (0.02°F/°F)		
Input Impedance	10 Mohm		
Sampling Time	4 times/second		
Dims/Weight	3.8 x 4.2 x 1.8" (96 x 108 x 45mm)/ 17oz		

Ordering Information:

433201Microprocessor Calibrator Thermometer (115V AC Adaptor) 433201-NIST433201 with Calibration Traceable to NIST Certificate





PRC20 Thermocouple Calibrator



Source and measure 8 thermocouple type devices (J, K, T, E, C, R, S and N) with one meter that provides precision output displayed as $^{\circ}$ C/ $^{\circ}$ F or mV.

Applications include:

- Lab and Field Calibration and Verification Operations of Sensors, Thermocouple Probes, Controllers, Panel meters & Testing tools.
- Engineering Research and Design
- Manufacturing and Test Engineering
- HVAC
- Temperature Control Process Troubleshooting



Features

- Palm-sized double molded housing and large dot-matrix digital backlit LCD with thermocouple type indication
- High accuracy calibration function simulates precision thermocouple outputs for use in calibrating thermometers, transmitters, controllers or recorders
- Displays output in terms of millivolts or temperature based on thermocouple tables
- Standard mini-thermocouple input
- Large battery bank for extended work cycle
- Up to five user adjustable calibration presets
- External power adapter for continuous work cycle

Specifications	Range		Basic Accuracy		
Thermocouple					
Type J	-58 to 1832°F	(-50 to 1000°C)	0.05% rdg ±1°		
Type K	-58 to 2498°F	(-50 to 1370°C)	0.05% rdg ±1°		
Туре Т	-184 to 752°F	(-120 to 400°C)	0.05% rdg ±1°		
Type E	-58 to 1382°F	(-50 to 750°C)	0.05% rdg ±1°		
Type C	32 to 3182°F	(0 to 1750°C)	0.05% rdg ±1°		
Type R/S	32 to 3182°F	(0 to 1750°C)	0.05% rdg ±1°		
Type N	-58 to 2372°F	(-50 to 1300°C)	0.05% rdg ±1°		
Voltage	-10.00mV to +60.00mV	10μV	10μV ±1d		
Resolution	0.1° (up to 999.9) or 1° (over 999.9°) for J, K, T, E ; 1° for R, N; 0.5° for C, S				
Input Impedance	10 ΜΩ				
Sampling Time	4 times/second				
Meter Dims (LxWxH)	6.3" x 3.2" x 1.7" (159 x 80 x 44mm)				
Meter Wt	8oz (225g) - not including battery weight				

Ordering

PRC20Thermocouple Calibrator
PRC20-NISTPRC20 with Certificate of Calibration Traceable to NIST



Complete with Thermocouple calibration cable with subminiature connectors, standard calibration cable with subminiature connectors, 100V-240V AC Universal Adaptor with 4 plugs, 6 x 1.5V AA batteries, and hard carrying case

