

PRC30 Multifunction Process Calibrator



Precision source and measure for thermocouples (8-Types), mA, mV, and V devices

Applications include:

- Lab and Field Calibration and Verification Operations of Sensors, Thermocouple Probes, Controllers, Panel meters & Testing tools.
- Temperature Control Process Troubleshooting
- Process devices calibration and simulation: Transducers, Transmitters, Indicators, Controllers, and Recorders
- Field test and service
- Bench research and development



Features

- Palm-sized double molded housing and large dot-matrix backlit LCD
- Measures DC process signals
- High accuracy calibration function simulates precision thermocouple outputs for use in calibrating thermometers, transmitters, controllers or recorders
- Up to five user adjustable calibration presets
- Displays output in terms of millivolts or temperature based on thermocouple tables
- 24V Loop Power
- Zero adjustment, auto zero when power on and change mode
- Standard banana I/O ports
- Large battery bank for extended work cycle
- External power adapter for continuous work cycle



Complete with test leads, alligator clips, Thermocouple calibration cable with subminiature connector, universal calibration cable with subminiature terminal, 100V-240V AC Universal Adaptor with 4 plugs, six 1.5V AA batteries, and hard carrying case

Ordering

PRC30Multifunction Process Calibrator

PRC30-NISTPRC30 with Certificate of Calibration Traceable to NIST



| Specifications | Range | Basic Accuracy |
|--------------------|---|---|
| DC Source | | |
| Current | 0 to 24mA, -25% to +125% | $\pm(0.01\% + 1 \text{ digit})$ |
| Max. Load | 1000 Ω @ 24mA | |
| Voltage | 0 to 2000mV, 0 to 20V | $\pm(0.01\% + 1 \text{ digit})$ |
| mV/Temp | -5 to 55mV | $\pm(0.01\% + 1 \text{ digit})$ |
| Type J | -58 to 1832°F (-50 to 1000°C) | $\pm(0.05\% + 2^\circ\text{F or } 1^\circ\text{C})$ |
| Type K | -58 to 2498°F (-50 to 1370°C) | $\pm(0.05\% + 2^\circ\text{F or } 1^\circ\text{C})$ |
| Type T | -184 to 752°F (-120 to 400°C) | $\pm(0.05\% + 2^\circ\text{F or } 1^\circ\text{C})$ |
| Type E | -58 to 1382°F (-50 to 750°C) | $\pm(0.05\% + 2^\circ\text{F or } 1^\circ\text{C})$ |
| Type C, R, S | 32 to 3182°F (0 to 1750°C) | $\pm(0.05\% + 2^\circ\text{F or } 1^\circ\text{C})$ |
| Type N | -58 to 2372°F (-50 to 1300°C) | $\pm(0.05\% + 2^\circ\text{F or } 1^\circ\text{C})$ |
| DC Measure | | |
| Current | 0 to 50mA, -25% to +230% | $\pm(0.01\% + 1 \text{ digit})$ |
| Voltage | 0 to 1999mV / 2 to 20V | $\pm(0.01\% + 1 \text{ digit})$ / auto range |
| mV/Temp | -10 to 60mV | $\pm(0.01\% + 1 \text{ digit})$ |
| Type J | -58 to 1832°F (-50 to 1000°C) | $\pm(0.05\% + 1.8^\circ\text{F or } 1^\circ\text{C})$ |
| Type K | -58 to 2498°F (-50 to 1370°C) | $\pm(0.05\% + 1.8^\circ\text{F or } 1^\circ\text{C})$ |
| Type T | -184 to 752°F (-120 to 400°C) | $\pm(0.05\% + 1.8^\circ\text{F or } 1^\circ\text{C})$ |
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| Type N | -58 to 2372°F (-50 to 1300°C) | $\pm(0.05\% + 2^\circ\text{F or } 1^\circ\text{C})$ |
| Loop Power | 24V | |
| Meter Dims (LxWxH) | 6.3" x 3.2" x 1.7" (159 x 80 x 44mm) | |
| Meter Wt | 8.4oz (236g) - not including battery weight | |