



Hand-Held Rugged Temperature Calibrator Including Loop Power

The Martel PTC-9002 is a full function thermocouple/RTD calibrator combined with the ability to simultaneously read and display a 4 to 20 mA current loop. These features make it ideal for calibrating all types of temperature measuring devices and transmitters.

Housed in a rugged hand-held case, the PTC-9002 features 0.5°C accuracy on the most commonly used T/C and RTD ranges. Up to nine (9) setpoints can be stored in non-volatile memory for each of the seven ranges. An auto-step function allows the user to automatically step through each of the stored setpoints for a particular range at a predetermined interval.

Resolution is .1°C/.1°F on all temperature ranges and .001mA on the milliamp range. An internal 24 volt loop power supply allows the user to power a two-wire transmitter and read the output current. No external loop power is required.

PTC-9002

Precision Temperature Calibrator with Simultaneous mA Input Capability

Features

- High Accuracy on 4 T/C and 3 RTD Ranges
- Direct Keyboard Entry of Data
- 63 Point Calibration Memory
- Simultaneous Display of Temperature Output and 4-20 mA Input
- Built-in 24 Volt Loop Power Supply

Each Unit Includes:

Test leads, carrying case, 4 alkaline AA batteries, instruction manual, and NIST Certificate

General Specifications

Input/Output Ranges:	T/C: J, K, T, E RTD: Pt 392, Pt 385, Ni 120 mA: 0 to 24.000
Accuracy:	±.5°C ±1 LSD; .05% of F.S. for mA
Cold Junction Accuracy:	±.2°C
Input z (T/C Read):	1M typical
Output Current (T/C Source):	±10 mA
Excitation Current (RTD Read):	2.0 mA typical
Excitation Current Input (RTD Source):	0.2 to 3 mA
Stability:	±0.005%/°C of FS reading
Oper. Temp:	32 to 122°F / 0 to 50°C
Display:	32 Character, 2 x 16 format dot matrix
Power Supply:	4 AA Alkaline Cells or 4 AA Ni-Cd Cells Optional AC Adaptor/Charger Available
Size:	7" x 3.8" x 1.6" HWD
Weight:	15 oz.

Range	Min	Max	Accuracy
Pt392	-200.0	-100.0	1.0°C
	-100.0	850.0	0.7°C
Pt385	-200.0	-100.0	1.0°C
	-100.0	850.0	0.7°C
Ni120	-80.0	320.0	0.7°C
J Thermocouple	-150.0	-100.0	1.0°C
	-100.0	1200.0	0.7°C
K Thermocouple	-200.0	-100.0	1.0°C
	-100.0	1300.0	0.7°C
T Thermocouple	-200.0	-100.0	1.0°C
	-100.0	400.0	0.7°C
E Thermocouple	-150.0	-100.0	1.0°C
	-100.0	950.0	0.7°C
mA	0.000	24.000	0.013 mA

MODEL NO.

DESCRIPTION

PTC-9002	Temperature Calibrator
10077	AA Ni-Cd Batteries (requires 4)
1001-9V	Optional A/C Adapter/Charger