



PTC 400 Temperature Calibrator

The PTC 400 Temperature Calibrator is an ideal device to handle all of your temperature calibration needs in a truly rugged, low-cost package. It combines virtually all widely used thermocouples and RTDs in one device.

This is especially true when calibrating "smart" or pulsed RTD transmitters, where many other calibrators fail to work or operate at reduced accuracy specs. The PTC 400 handles those applications with ease.

Features:

- Calibrate thermocouples and RTDs
- Direct keyboard entry or scroll control of output
- User-defined setpoints
- High accuracy $\pm 0.4^{\circ}\text{C}$ J/T/C and $\pm 0.3^{\circ}\text{C}$ 4W PT385 RTD; all errors included
- Ten (10) T/C types and eight (8) RTD types including PT 385 (1,000 Ohm) and Cu (10 Ohm)
- Store up to nine (9) setpoints for each output function
- RS232 interface

Standard delivery:

- PTC 400
- Carrying case
- Test leads
- 4 AA alkaline batteries
- NIST-traceable certificate
- Instruction manual

Accessories:

- Protective case



Specifications (23 °C ± 5 °C unless otherwise noted)

Range

| | |
|------------------------|--|
| T/C | J, K, T, E, R, S, N, B, L, U including -10 to 75 mV range |
| RTD | Pt 385 (100, 200, 500, 1000 Ohm) Pt 392, JIS, Ni 120, Cu 10, YSI 400 |
| Ohm | 0.0 to 400.0 Ω 400 to 3.200 Ω |
| mV | -10 to +75 |
| RTD IEX-Range | 0.01 to 3 mA |
| RTD-Frequency Response | 10 ms; works with all pulsed transmitters |

Thermocouple Read and Source

| | |
|-------------------------|---|
| Kind | J, K, T, E, R, S, B, L, U, N |
| Accuracy | 0.4°C ... 2.4°C (depends on thermocouple) |
| Accuracy mV Read/Source | 0.014 % ± 2 digits |

RTD Read and source

| | |
|----------|---|
| Kind | Ni 120 (672), Pt 100 (385), Pt 100 (3926), Pt 100 (3916), Pt 200 (385), Pt 500 (385), Pt 1000 (385), Cu 10, YSI 400 |
| Accuracy | 0.2°C ... 2.2°C (depends on RTD) |

| | |
|-----------------------|---------------------|
| Operating Temperature | -10°C to +50°C |
| Storage Temperature | -20°C to +60°C |
| Power supply | 4 AA Alkaline cells |
| Operating time | 30 hrs. |
| Dimensions | 221 x 106 x 58 mm |
| Weight | 850 g |