





PRODUCT DATASHEET

Microprocessor Calibrator Thermometer

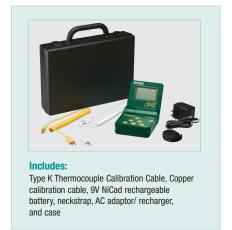
Source and Measure 8 thermocouple type devices J, K, T, E, C, R, S and N

With one model for multiple thermocouple types with precision output displayed as mV or °C/°F

Features:

- Upgraded model now features super large LCD display and touch keypad
- Basic accuracy of 0.15% of reading over wide ranges
- · Five stored calibration values for fast calibrations
- High accuracy calibration function simulates precision thermocouple outputs for use in calibrating thermometers, transmitters, controllers or recorders.
- 0.1°/1° resolution for J, K, T and E Types; 1° for C, R, S and N Types
- °C/°F switchable for increased versatility
- 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
- Complete with Type K Thermocouple Calibration Cable, Copper calibration cable, 9V NiCad rechargeable battery, neckstrap, AC adaptor/recharger, and case





| 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 | (-270 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 4172°F | (0 to 2300°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 | $10\mu V \pm 1d$ |
| 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:

| 433201 | Microprocessor Calibrator Thermometer (115V AC Adaptor) |) |
|-------------|---|---|
| 433201-NIST | 433201 with NIST Certificate | |
| 433202-220 | Microprocessor Calibrator Thermometer (220V AC Adaptor) |) |
| 433202-240 | Microprocessor Calibrator Thermometer (240V AC Adaptor |) |



