



Features

- Source and measure 8 thermocouple types, including R, S, B, E, K, J, T, N; and volts
- Basic accuracy of 0.05%
- Internal cold junction compensation
- Easy to read 6-digit LCD display
- Zero adjustment button
- User selectable unit of measure (°F/°C)
- Low battery indicator and auto shut off
- Includes test leads, alligator clips, thermocouple adapter, protective holster and batteries

| Model | Description |
|------------|--|
| R2810 | Thermocouple Calibrator |
| R2990 | Thermocouple Adapter |
| R1000 | Safety Test Lead Set, Double Insulated |
| R1020 | Fused Test Lead Set |
| R2920 | Surface Thermocouple Probe |
| R2930 | Right Angle Thermocouple Probe |
| R2940 | Air/Gas Thermocouple Probe |
| R2950 | Immersion Thermocouple Probe |
| R2960 | Needle Tip Thermocouple Probe |
| CA-05A | Soft Carrying Case |
| R9940 | Hard Shell Carrying Case |
| R2810-NIST | Thermocouple Calibrator & NIST |

Specifications

| | |
|-----------------------------|---------------------------------------|
| Display: | 6-Digit LCD |
| Zero Adjustment Button: | Yes |
| Kick Stand: | Yes |
| Power Supply: | 2 x AA Batteries |
| Cold Junction Compensation: | Yes |
| Auto Shut Off: | Yes (after 15 mins/off) |
| Low Battery Indicator: | Yes |
| Replaceable Test Leads: | Yes |
| Product Certifications: | CE |
| Operating Temperature: | 32 to 122°F (0 to 50°C) |
| Operating Humidity: | 0 to 85% |
| Storage Temperature: | 14 to 122°F (-10 to 50°C) |
| Dimensions: | 7.1 x 3.5 x 1.9" (180 x 90 x 47mm) |
| Weight: | 8.2oz (500g) |

TECHNICAL DATA

Measuring Function

| Output | Range | Output Range | Resolution | Accuracy |
|--------|-------|----------------------|------------|--|
| DCV | 100mV | -10.00mV to 110.00mV | 0.01mV | 0.05% rdg. + 30mV |
| | R | -40 to 1760°C | 1°C | ±0.05% rdg. +3°C (≤100°C) ±0.05% rdg. +2°C (>100°C) |
| TC | S | -20 to 1760°C | 1°C | ±0.05% rdg. +3°C (400 to 600°C); ±0.05% rdg. +2°C (>600°C) |
| | B | 400 to 1800°C | 1°C | ±0.05% rdg. +3°C (400 to 600°C); ±0.05% rdg. +2°C (>600°C) |
| | E | -200.0 to 1000.0°C | 0.1°C | ±0.05% rdg. +2°C (≤-100°C) ±0.05% rdg. +1°C (>100°C) |
| | K | -200.0 to 1370.0°C | 0.1°C | |
| | J | -200.0 to 1200.0°C | 0.1°C | |
| | T | -200.0 to 400.0°C | 0.1°C | |
| | N | -200.0 to 1300.0°C | 0.1°C | |

Source Function

| Output | Range | Output Range | Resolution | Accuracy |
|--------|--------------------|----------------------|------------|--|
| DCV | 100mV | -10.00mV to 110.00mV | 0.01mV | 0.05% rdg. + 30mV |
| | 1V | -0.1000V to 1.1000 V | 0.1mV | 0.05% rdg. + 0.3mV |
| TC | R | -40 to 1760°C | 1°C | ±0.05% rdg. +3°C (≤100°C) ±0.05% rdg. +2°C (>100°C) |
| | S | -20 to 1760°C | 1°C | ±0.05% rdg. +3°C (400 to 600°C); ±0.05% rdg. +2°C (>600°C) |
| | B | 400 to 1800°C | 1°C | ±0.05% rdg. +3°C (400 to 600°C); ±0.05% rdg. +2°C (>600°C) |
| | E | -200.0 to 1000.0°C | 0.1°C | ±0.05% rdg. +2°C (≤-100°C) ±0.05% rdg. +1°C (>100°C) |
| | K | -200.0 to 1370.0°C | 0.1°C | |
| | J | -200.0 to 1200.0°C | 0.1°C | |
| | T | -200.0 to 400.0°C | 0.1°C | |
| N | -200.0 to 1300.0°C | 0.1°C | | |