



### 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"<br>(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. +2°C (≤-100°C) ±0.05% rdg. +1°C (>100°C)       |
|        | E     | -200.0 to 1000.0°C   | 0.1°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. +2°C (≤-100°C) ±0.05% rdg. +1°C (>100°C)       |
|        | E     | -200.0 to 1000.0°C   | 0.1°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      |  |