



### TECHNICAL DATA

| Output | Range      | Output Range           | Resolution | Accuracy                                                  |
|--------|------------|------------------------|------------|-----------------------------------------------------------|
| DCV    | 100mV      | -10.00mV to 110.00mV   | 0.01mV     | 0.05% rdg. + 30uV                                         |
|        | 1000mV     | -100.00mV to 1100.00mV | 0.1mV      | 0.05% rdg. + 0.3mV                                        |
| OHM    | 400Ω       | 0.0 to 400.0Ω          | 0.1Ω       | ±0.05% rdg. + 0.2Ω                                        |
|        | 4000Ω      | 0 to 4000Ω             | 1Ω         | ±0.05% rdg. + 2Ω                                          |
| TC     | R          | -40 to 1760°C          | 1°C        | ±0.05% rdg. +3°C                                          |
|        | S          | -20 to 1760°C          | 1°C        | (≤100°C) ±0.05% rdg. +2°C (>100°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      |                                                           |
|        | Cu10       | -10.0 to 250.0°C       | 0.1°C      | ±0.05% rdg. +0.6°C                                        |
|        | Cu50       | -50.0 to 150°C         | 0.1°C      |                                                           |
|        | Pt10 385   | -200.0 to 850°C        | 0.1°C      | ±0.05% rdg. +0.6°C                                        |
|        | Pt100 385  | -200.0 to 850°C        | 0.1°C      |                                                           |
| RTD    | Pt200 385  | -200.0 to 630°C        | 0.1°C      | ±0.05% rdg. +0.6°C                                        |
|        | Pt500 385  | -200.0 to 630°C        | 0.1°C      |                                                           |
|        | Pt1000 385 | -200.0 to 630°C        | 0.1°C      |                                                           |
|        |            |                        |            |                                                           |

### Features

- Source 8 thermocouple types, including R, S, B, E, K, J, T, N; and 5 RTDs types, including Pt 100 (385), Pt200 (385), Pt500 (385), Pt1000 (385), Cu50; plus volts and ohms
- 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

### 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)                       |

| Model             | Description                            |
|-------------------|----------------------------------------|
| <b>R2800</b>      | Temperature Simulator                  |
| <b>R2990</b>      | Thermocouple Adapter                   |
| <b>R1000</b>      | Safety Test Lead Set, Double Insulated |
| <b>R1020</b>      | Fused Test Lead Set                    |
| <b>R2920</b>      | Surface Thermocouple Probe             |
| <b>R2930</b>      | Right Angle Thermocouple Probe         |
| <b>R2940</b>      | Air/Gas Thermocouple Probe             |
| <b>R2950</b>      | Immersion Thermocouple Probe           |
| <b>R2960</b>      | Needle Tip Thermocouple Probe          |
| <b>CA-05A</b>     | Soft Carrying Case                     |
| <b>R9940</b>      | Hard Shell Carrying Case               |
| <b>R2800-NIST</b> | Temperature Simulator & NIST           |