

Designed to provide precise mA sourcing and measurement. With 0-30 VDC measurement capabilities, it ensures reliable loop voltage checks and offers exceptional accuracy of 0.02% for measurement and 0.05% for sourcing. Allowing for precise mA and % simulation with a 0.001% display span, along with selectable step or ramp outputs.

### Specifications

#### DC Voltage Measurement

|              |                    |
|--------------|--------------------|
| Range        | 30V                |
| Output Range | -30.000 to 30.000V |
| Resolution   | 0.001V             |
| Accuracy     | ±0.02% rdg. + 2mV  |

#### DC Current Measurement

|              |                       |
|--------------|-----------------------|
| Range        | 30mA                  |
| Output Range | -30.000mA to 30.000mA |
| Resolution   | 0.001mA               |
| Accuracy     | ±0.02% rdg. + 4µA     |

#### Current Output

|              |                   |
|--------------|-------------------|
| Range        | 30mA              |
| Output Range | 0.000 to 30.000mA |
| Resolution   | 0.001mA           |
| Accuracy     | ±0.05% rdg. + 4µA |

#### Analog Transducer Output

|            |      |
|------------|------|
| Loop Power | 24V  |
| Accuracy   | ±10% |

#### General Specifications

|                            |                                       |
|----------------------------|---------------------------------------|
| Display                    | 6-Digit LCD                           |
| Backlit Display            | Yes                                   |
| Kick Stand                 | Yes                                   |
| Magnetic Hanger Compatible | Yes (R5900 sold separately)           |
| Built-In Flashlight        | Yes                                   |
| Zero Adjustment Button     | Yes                                   |
| Power Supply               | 3 AA Batteries                        |
| Battery Life               | Approx. 20 hours                      |
| Cold Junction Compensation | Yes                                   |
| Auto shut off              | Yes (up to 60 minutes/off)            |
| Low Battery Indicator      | Yes                                   |
| Replaceable Test Leads     | Yes                                   |
| Product Certifications     | CE                                    |
| Operating Temperature      | 32 to 122°F (0 to 50°C)               |
| Operating Humidity Range   | 0 to 85%                              |
| Storage Temperature        | 14 to 122°F (-10 to 50°C)             |
| Dimensions                 | 7.5 x 3.5 x 2.1"<br>(191 x 90 x 53mm) |
| Weight                     | 17.6oz (500g)                         |

### TECHNICAL DATA



### Features

- mA sourcing and measurement
- 0-30 VDC measurement to check loop voltage
- Basic measurement/sourcing accuracy of 0.02% and 0.05%, respectively
- Simulate mA and % with 0.001% display span
- Selectable step or ramp outputs
- Easy to read 6-digit LCD display
- Built-in LED flashlight
- Internal 24V loop power supply
- Low battery indicator and auto shut off
- Includes test leads, alligator clips and batteries

| Model      | Description            |
|------------|------------------------|
| R5825      | Loop Calibrator        |
| R5825-NIST | Loop Calibrator & NIST |
| R5900      | Magnetic Meter Strap   |