

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.

TECHNICAL DATA

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" (191 x 90 x 53mm)
Weight	17.6oz (500g)



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