

Measures from 50 Micro-Ohm to 20 Ohms

Simpson's high precision Model 444-2 has been redesigned for added ESD immunity and longer battery life. The model 444-2 Micro-Ohmmeter measures resistance from 50 micro-ohm to 20 ohms. It measures using an extremely small test voltage (100 microvolt maximum) and a four wire measurement technique. The resistance reading is indicated on a 4- 1/2 digit LCD display using one of two measuring modes: An automatic AC measurement mode or a manual DC measurement mode. By limiting the test voltage of the Model 444-2 to only 100 micro volts the instrument will not "punch through" contamination or corrosion. An audible tone can be used to indicate resistance values below any selected reading. The Model 444-2 has a universal power input range of 85Vac to 250Vac and incorporates a self-contained rechargeable Ni-Cad battery for field use.

- 20,000 Count 4 1/2-Digit LCD
- 2 Measurement Methods: AC Pulse and DC Polarity Switching
- Punch-Through Prevention by 100 μ V Max. Test Voltage
- User-Adjustable, Low-Resistance Alarm
- AC Test Mode Cancels Offset Voltages and Thermocouple Effects
- Includes Ni-Cad Battery for Field Use and Test Leads
- Extended Battery Life, 10 Hours Typical

Specifications

Range	Resolution	Maximum Test Current	
20mΩ	1μΩ	5mA	
200mΩ	10μΩ	500µA	
2Ω	100μΩ	50µA	
20Ω	$1 \text{m} \Omega$	5µA	

Accuracy: \pm (0.05% of input \pm 600 counts) DC mode

 \pm (0.05% of input \pm 15 counts) AC mode

Alarm: Resistance below set point activates audible beeper and display annunciator. Resistance above set point activates display annunciator. Set point Adjustment: Front Panel Knob

Accuracy: \pm (2% of input +150 counts)

Maximum Test Voltage: 100µV peak

Measurement Techniques: (AC) Pulse of 50 Hertz Square Wave and DC Switchable Polarity

Display: 19,999 count LCD with 0.5" digits and "AC," "DC," "B" and " Conversion rate: reading 2 per second Test Leads: BNC to dual Kelvin clip (2 leads) RG-58 Operating Voltage: 85VAC to 250VAC, 10VA maximum Operating Temperature Range: 0° to 50°C

Storage Temperature Range: -40° to +60°C

Ordering Information

MICRO	-OHMMETER	Catalog No.	ACCESSORIES	Catalog No.	ACCESSORIES	Catalog No.
444-2 M	licro-Ohmmeter, 85V/250V	12681	Standard Test Lead Set	00827	Case, Molded Plastic	45029
			Kelvin Test Probe Set	02151		



Specifications (Continued)

Relative Humidity: 90% maximum up to 35°C, 70% maximum up to +50°C (non-condensing) Temperature Coefficient: 0.2%/°C (0° to 18°C and 28° to 50°C) Extended Battery Life: Typical 10 hours Battery Mode Rated Circuit-To-Ground Voltage: 30V (RMS) Display Settling Time: <15 seconds Dimensions: 2.7" x 8.4" x 9.0" (68 x 213 x 228 mm) nominal Weight: Approximately 3 lbs.