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 100µV 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

Ordering Information

<table>
<thead>
<tr>
<th>Micro-Ohmmeter</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>444-2 Micro-Ohmmeter, 85V/250V</td>
<td>12681</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Accessories</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Test Lead Set</td>
<td>00827</td>
</tr>
<tr>
<td>Kelvin Test Probe Set</td>
<td>02151</td>
</tr>
<tr>
<td>Case, Molded Plastic</td>
<td>45029</td>
</tr>
</tbody>
</table>
### 444-2 Low Voltage Micro-Ohmeter

**Specifications**

<table>
<thead>
<tr>
<th>Range</th>
<th>Resolution</th>
<th>Maximum Test Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>20mΩ</td>
<td>1µΩ</td>
<td>5mA</td>
</tr>
<tr>
<td>200mΩ</td>
<td>10µΩ</td>
<td>500µA</td>
</tr>
<tr>
<td>2Ω</td>
<td>100µΩ</td>
<td>50µA</td>
</tr>
<tr>
<td>20Ω</td>
<td>1mΩ</td>
<td>5µA</td>
</tr>
</tbody>
</table>

**Accuracy**

- ± (0.05% of input ± 600 counts) DC mode
- ± (0.05% of input ± 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

**Set Point Accuracy** ± (2% of input ±150 counts)

**Maximum Test Voltage** 100µV peak

**Measurement Techniques** (AC) Pulse of 40 Hertz Square Wave and DC Switchable Polarity

**Display**

19,999 counts, 4.5 digits LCD type, 0.5” high, and "AC," "DC" and " annunciators

**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

**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.