Test Leads and Probes

**TEST LEADS AND PROBES SELECTOR GUIDE**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>NAME</th>
<th>USE WITH</th>
</tr>
</thead>
<tbody>
<tr>
<td>1600A</td>
<td>High Voltage Probe</td>
<td>DMMs</td>
</tr>
<tr>
<td>1651</td>
<td>50-Ampere Shunt</td>
<td>DMMs</td>
</tr>
<tr>
<td>1681</td>
<td>Clip-On Test Lead Set</td>
<td>DMMs</td>
</tr>
<tr>
<td>1751</td>
<td>Safety Test Leads</td>
<td>All DMMs, 2400 Series</td>
</tr>
<tr>
<td>1754</td>
<td>Safety Universal Test Lead Kit</td>
<td>All DMMs, 2400 Series</td>
</tr>
<tr>
<td>3224</td>
<td>4-Terminal Alligator Clip Test Leads</td>
<td>3521, 3522, 3530 LCZ Meters</td>
</tr>
<tr>
<td>3225A</td>
<td>Kelvin Clip Test Leads</td>
<td>3521, 3522, 3530 LCZ Meters</td>
</tr>
<tr>
<td>3226A</td>
<td>Clip Component Test Leads</td>
<td>3521, 3522, 3530 LCZ Meters</td>
</tr>
<tr>
<td>5804</td>
<td>General-Purpose, 4-Terminal Test Lead Set</td>
<td>5801, 2400 Series, 2750, DMMs</td>
</tr>
<tr>
<td>5805</td>
<td>Kelvin Probes, 3 mm (3 ft)</td>
<td>5801, 2400 Series, 2750, DMMs</td>
</tr>
<tr>
<td>5805-12</td>
<td>Kelvin Probes, 3 mm (3 ft)</td>
<td>5801, 2400 Series, 2750, DMMs</td>
</tr>
<tr>
<td>5806</td>
<td>Kelvin Clip Leads</td>
<td>5801, 2400 Series, 2750, DMMs</td>
</tr>
<tr>
<td>5807</td>
<td>Helical Spring-Point Test Leads</td>
<td>5801, 2400 Series, 2750, DMMs</td>
</tr>
<tr>
<td>6309C</td>
<td>Voltage Divider Probe (1000:1)</td>
<td>610C, 617, 6517A Electrometers</td>
</tr>
<tr>
<td>6517-RH</td>
<td>Humidity Probe with Extension Cable</td>
<td>6517A</td>
</tr>
<tr>
<td>6517-TP</td>
<td>Thermocouple Lead Probe</td>
<td>6517A</td>
</tr>
<tr>
<td>7401</td>
<td>Thermocouple Wire Kit, 30 ft (10 m), Type K</td>
<td>2001-TSCAN, 7057A, 7700, 7706, 7708</td>
</tr>
<tr>
<td>8605</td>
<td>High Performance Modular Test Leads</td>
<td>All DMMs, 2400 Series</td>
</tr>
<tr>
<td>8606</td>
<td>High Performance Modular Probe Kit</td>
<td>All DMMs, 2400 Series</td>
</tr>
<tr>
<td>8681</td>
<td>Low Cost RTD</td>
<td>2001, 2002, 2010 DMMs (with 8600)</td>
</tr>
<tr>
<td>8693</td>
<td>Pt RTD General Purpose Probe</td>
<td>2001, 2002, 2010 DMMs (with 8600)</td>
</tr>
<tr>
<td>8695</td>
<td>Pt RTD Surface Probe</td>
<td>2001, 2002, 2010 DMMs (with 8600)</td>
</tr>
<tr>
<td>8696</td>
<td>Pt RTD Air/Gas Probe</td>
<td>2001, 2002, 2010 DMMs (with 8600)</td>
</tr>
<tr>
<td>CA-109</td>
<td>Test Lead Set for Output Connections</td>
<td>2000-TSCAN, 2001-TSCAN, 2001-TSCAN</td>
</tr>
</tbody>
</table>

**Model 1600A High Voltage Probe**

- **MAXIMUM INPUT:** 40kV DC or peak AC to 300Hz.
- **INPUT RESISTANCE:** 1000MΩ.
- **DIVISION RATIO:** 1000:1 (into 10MΩ).
- **RATIO ACCURACY (into 10MΩ DMM):** ±2.5% from 1kV to 40kV DC; –3dB at 300Hz AC.
- **OPERATING TEMPERATURE:** 0° to 50°C.
- **CABLE LENGTH:** 2m (6.6 ft).

For use with: DMMs

**Model 1651 50 Ampere Shunt:**

- **External 0.001Ω ± 1%, 4-terminal shunt;** extends current measuring capability of Keithley DMMs to 50A.
- **CABLE LENGTH:** 1.4m (56 in).

For use with: DMMs

**Model 1681 Clip-On Test Lead Set:**

- Two 1.2m (48 in) leads terminated with banana plugs and spring action clip-on probes.

For use with: DMMs

**Model 1751 Safety Test Leads:**

- 91.4cm (36 in) test lead set supplied with each Model 175A and 197A. Finger guards and shrouded banana plugs help minimize the chance of making contact with live circuitry.

For use with: All DMMs, 2400 Series SourceMeter Instruments

**Model 1754 Universal Test Lead Kit:**

- 10-piece test lead kit with interchangeable plug-in accessories. Kit includes: 1 set of test leads, 91.4cm (36 in), 1 red and black, 2 spade lugs, 2 standard banana plugs, 2 hooks, and 2 miniature alligator clips with boots.

For use with: All DMMs, 2400 Series SourceMeter Instruments

**Item shipped may vary from model pictured here.**
Test Leads and Probes

Model 3324 Four-Terminal Alligator Clip Test Leads: Designed for use with low-impedance four-terminal components in which the current-supplying terminals and voltage-measurement terminals are separated. It is also useful to connect to low-impedance circuits or sub-assemblies with separated current and voltage paths. Cable length 1m (3.3 ft).
For use with: 3321, 3322, 3330 LCZ Meters

Model 3326A Chip Component Test Leads: These tweezer-type leads are designed for easy measurement of surface-mount chip components. They are also useful in determining the impedances of small pieces of material. Cable length 1m (3.3 ft).
For use with: 3321, 3322, 3330 LCZ Meters

Model 3325A Kelvin Clip Test Leads: Enables two clips to be used for four-terminal connections. The 3325A is used in measuring large or irregularly-shaped components that cannot be inserted into the Model 3323 direct test fixture. It can also be used as a terminal extension. Cable length 1m (3.3 ft). Replacement leads available as P/N 3325CBL.
For use with: 3321, 3322, 3330 LCZ Meters

Model 5804 Test Lead Set: Designed to be used with Keithley instruments that measure 4-terminal resistance. Contains: 2 test leads, 0.9m (36 in), red and black; 2 test clips, red and black; 2 plunger clip adapters, red and black; 2 alligator clips with boots (accept standard test probe tip); 2 alligator clips with boots (barrels accept standard banana plugs).
For use with: 580, 2400 Series SourceMeter Instruments, 2750, DMMs

Model 5805 Kelvin Probes: 2 spring-loaded test probes, red and black, 0.9m (36 in) with banana plug termination. Designed to be used with Keithley instruments that measure 4-terminal resistance and in-circuit current. ¼-in spacing between pin tips. A package of 8 replacement contacts (P/N CS-551) is available.
Model 5805-12: Similar to 5805 but 3.6m (12 ft) in length.
For use with: 580, 2400 Series SourceMeter Instruments, 2750, DMMs

Model 5806 Kelvin Clip Lead Set: 2 clip test leads, red and black, 0.9m (36 in) with banana plug termination. Designed to be used with Keithley instruments that measure 4-terminal resistance. Maximum jaw opening ½ in. A package of 8 replacement elastic bands (P/N 5806-306B) is available.
For use with: 580, 2400 Series SourceMeter Instruments, 2750, DMMs

Item shipped may vary from model pictured here.
Test Leads and Probes

Model 5807-7 Helical Spring Point Test Leads: Two excellent Kelvin test probes for Keithley instruments that measure 4-terminal resistance. The probes have pointed tips that rotate when pressure is exerted on the handle. Good contact is assured, and the handle can be held at any angle to the measurement surface. The lead wires terminate in banana jacks. Lead wire length: 2m (7 ft).
For use with: 580, 2400 Series SourceMeter Instruments, 2750, DMMs

Model 6103C Voltage Divider Probe: Permits voltage measurement to 30kV and has a 1000:1 division ratio. Accuracy is ±5% of reading. Its 3.8×10^{-11} \Omega input resistance permits use with Keithley electrometers. Connector is a UHF male plug. Requires the 6012 Triax to UHF Adapter when used with Models 617 and 6517A. Lead length is 0.8m (30 in). Also requires the 6171 Adapter when used with the Model 6517A.
For use with: 610C, 617, 6517A Electrometers

Model 6517-RH Humidity Probe: The 6517-RH comes with a 5m (10 ft) extension cable and is designed to be used with the 6517A Electrometer. The 6517-RH measures the relative humidity of the testing environment.
OPERATING TEMPERATURE RANGE: -10°C to +60°C
OPERATING HUMIDITY RANGE: 0 to 100% RH
MEASURING RANGE: 0 to 90% RH
TEMPERATURE DEPENDENCE: ±2% from -10°C to +60°C
For use with: 6517A Electrometer

Model 6517-TP Thermocouple Bead Probe: Designed to be used with the 6517A Electrometer, the 6517-TP measures the temperature of the testing environment. 6517-TP is 36 in. long and has a temperature calibration (range) of 0°C to 1250°C.
For use with: 6517A Electrometer

Model 7401: Type K thermocouple wire kit includes 30.5m (100 ft) of type K (chromel-alumel) thermocouple wire.
For use with: 2001-TCSCAN, 7057A, 7700, 7706, 7708

Model 8605 High Performance Modular Test Leads: Highest quality lead with silicone insulation, and removable test probes. Rated to 1600V UL listed. Length: 0.9m (3 ft).
For use with: All DMMs, 2400 Series SourceMeter Instruments

Model 8606 High Performance Modular Probe Kit: For use with Model 8605 High Performance Modular Test Leads. Contains 2 each spade lugs, alligator clips, and retractable hooks.
For use with: All DMMs, 2400 Series SourceMeter Instruments

Item shipped may vary from model pictured here.
Test Leads and Probes

Model 8681 Low Cost RTD: This inexpensive RTD has small size (0.09 in × 0.09 in) and fast thermal response time. 100Ω, 0.385%/°C element. Meets or exceeds DIN 43760-1980-A, IEC 751:1983-A, BS190:1984-A, and JIS C1604-1981-0.2. Can be used with Model 8680 RTD Input Probe Adapter. Measures from −200° to +600°C.

LENGTH: 0.9m (3 ft).
ACCURACY: ±0.1°F or ±0.002 × |t| °C, where |t| is absolute value of temperature in °C.
For use with: 2001, 2002, 2010 DMMs (with 8680), 7700, 7702, 7706, 7708

Model 8693 General Purpose/Immersion Probe: Platinum RTD sensor. Designed for immersion in liquids as well as other general purpose applications. Measures from −220°C to +630°C; the probe has a basic tolerance of ±0.3°C at 0°C. 100Ω, 0.385%/°C element.

PROBE LENGTH: 50.8cm (20 in).
EXTENDED CABLE LENGTH: 1.5m (5 ft).
For use with: 2001, 2002, 2010 DMMs (with 8680)

Model 8695 Surface Probe: Platinum RTD sensor. Designed to measure the flat surfaces of solids from −50°C to +260°C; the probe has a basic tolerance of ±0.3°C at 0°C. 100Ω, 0.385%/°C element.

PROBE LENGTH: 20cm (8 in).
EXTENDED CABLE LENGTH: 1.5m (5 ft).
For use with: 2001, 2002, 2010 DMMs (with 8680)

Model 8696 Air/Gas Probe: Platinum RTD sensor. Has an exposed junction within a protective shroud. Measures from −50°C to +260°C; the probe has a basic tolerance of ±0.3°C at 0°C. 100Ω, 0.385%/°C element.

PROBE LENGTH: 20cm (8 in).
EXTENDED CABLE LENGTH: 1.5m (5 ft).
For use with: 2001, 2002, 2010 DMMs (with 8680)

Model CA-109 Test Lead Set: For output connections (two red, two black).
For use with: 2000-SCAN, 2001-SCAN, 2001-TCSCAN

Item shipped may vary from model pictured here.