TEST & MEASUREMENT

Tested **Tough.**

Trusted **Safe.**

KLEIN TOOLS
For Professionals... Since 1857
Klein Tools has been manufacturing professional hand tools for almost 160 years. The company remains committed to providing the best hand tools in the industry while supporting electricians and professional tradespeople around the world with quality and reliability they can trust.

**Tested Tough!** Our products stand up to the demands of the professionals who use them every day, delivering all the performance, durability and precision needed to get the job done right, the first time, every time! Klein’s new meters and electrical testers are packed with capabilities and functionality:

- Designed **TOUGH** to withstand jobsite drops and rough conditions
- Easy-to-use dials and buttons
- Large, bright, evenly backlit displays
- Molded-in test lead holders
- Comfortable, compact over-molded housing that’s easy to hold

The new Test & Measurement line offers a variety of additional products including 10x Line Splitters, Outlet Testers, Non-Contact Voltage Testers, and optional accessories (such as carrying pouches, magnetic hangers, replacement leads), completing a product line that will exceed expectations on the most demanding jobsites for years to come.

**Trusted Safe!** These new digital clamp and multimeters boast capabilities that are specifically aligned with customers’ expanding jobsite needs and expectations. These products were designed to meet CAT III or CAT IV requirements, as defined by IEC 61010 (3rd edition) standards. To the professional electrician and electrical technician, Klein knows that nothing is more important than safety. And that’s why Klein has been the #1 choice of electricians since 1857.

**Tested Tough.**

**Trusted Safe.**

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</table>
The **CL600** is an auto-ranging True Root-Mean-Squared (TRMS) digital clamp meter that measures AC current via the clamp, and measures AC/DC voltage, resistance, continuity, and tests diodes via test leads.

The **CL700** is an auto-ranging True Root-Mean-Squared (TRMS) digital clamp meter that measures AC current via the clamp, and measures AC/DC voltage, resistance, continuity, frequency, capacitance, and tests diodes via test leads, and temperature via a thermocouple probe. It also features a Low Impedance (LoZ) mode for identifying and eliminating ghost or stray voltages.

The **CL800** is an auto-ranging True Root-Mean-Squared (TRMS) digital clamp meter that measures AC/DC current via the clamp, measures AC/DC voltage, resistance, continuity, frequency, capacitance, and tests diodes via test leads, and temperature via a thermocouple probe. It also features a Low Impedance (LoZ) mode for identifying and eliminating ghost or stray voltages.

The CL600, CL700 and CL800 each include a nylon carrying pouch, test leads and batteries. The CL700 and CL800 also include a thermocouple with adapter.
**Pouch**

**Test leads with CAT III/CAT IV safety caps**

**Thermocouple** (temperature-measuring models only)

**Batteries**

### MEASUREMENT

<table>
<thead>
<tr>
<th>Feature</th>
<th>CL110</th>
<th>CL210</th>
<th>CL310</th>
</tr>
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<tbody>
<tr>
<td>AC/DC Voltage</td>
<td>600V</td>
<td>600V</td>
<td>600V</td>
</tr>
<tr>
<td>AC Current</td>
<td>400A</td>
<td>400A</td>
<td>400A</td>
</tr>
<tr>
<td>Resistance</td>
<td>20MΩ</td>
<td>20MΩ</td>
<td>40MΩ</td>
</tr>
<tr>
<td>AC Millivolts</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DC Millivolts</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>true RMS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Audible Continuity</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Backlight</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auto-Ranging</td>
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<td></td>
<td></td>
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<tr>
<td>Range Hold</td>
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<tr>
<td>Data Hold</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diode Test</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capacitance Test</td>
<td></td>
<td></td>
<td>4mF</td>
</tr>
<tr>
<td>Frequency/Duty Cycle</td>
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<td>1mHz</td>
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<td>MIN</td>
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<td>Auto Power-Off</td>
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<tr>
<td>LCD Display Count</td>
<td>2000</td>
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### DURABILITY

<table>
<thead>
<tr>
<th>Feature</th>
<th>CL110</th>
<th>CL210</th>
<th>CL310</th>
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<tbody>
<tr>
<td>Drop Protection</td>
<td>3.3 ft.</td>
<td>3.3 ft.</td>
<td>3.3 ft.</td>
</tr>
<tr>
<td>CAT III</td>
<td></td>
<td></td>
<td>600V</td>
</tr>
<tr>
<td>Safety Rating</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

*Specifications subject to change.*

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The **CL110** is an auto-ranging digital clamp meter that measures AC current via the clamp, and AC/DC voltage, resistance and continuity via test leads.

The **CL210** is an auto-ranging digital clamp meter that measures AC current via the clamp, AC/DC voltage, resistance and continuity via test leads, and temperature via a thermocouple probe.

The **CL310** is an auto-ranging True Root-Mean-Squared (TRMS) digital clamp meter that measures AC current via the clamp, AC/DC voltage, resistance, continuity, frequency, capacitance, and tests diodes via test leads, and temperature via a thermocouple probe.

The **CL110**, **CL210** and **CL310** clamp meters include a nylon carrying pouch, test leads, and batteries. The **CL210** and **CL310** also include a thermocouple.

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**Also available:** **CL110KIT** Electrical Maintenance & Test Kit. Includes CL110 Clamp Meter, RT210 GFCI Receptacle Tester and 69409 Line Splitter-10x, nylon carrying pouch, test leads and batteries.
### Functions & Features

#### Durability
- CL110 / CL210 / CL310
- MM300 / MM400 / MM600 / MM700
- Drop Protection
- 3.3 ft. (1 m) / 3.3 ft. (1 m) / 3.3 ft. (1 m) / 6.6 ft. (2 m) / 6.6 ft. (2 m) / 6.6 ft. (2 m)
- Ingress Protection
- CL110 / CL210 / CL310: IP40
- MM300 / MM400 / MM600 / MM700: IP42
- Safety
- CAT III 600V
- CAT III 600V
- CAT IV 600V
- CAT IV 600V
- CAT IV 600V
- CAT IV 600V
- AC Voltage (Volts)
- 600V
- 600V
- 1000V
- 1000V
- 1000V
- 1000V
- DC Voltage (Volts)
- 600V
- 600V
- 1000V
- 1000V
- 1000V
- 1000V
- AC Current (Amps)
- 400A
- 400A
- 400A
- 600A
- 600A
- 600A
- DC Current (Amps)
- 400A
- 400A
- 400A
- 600A
- 600A
- 600A
- Ohms (Resistance)
- 20MΩ
- 20MΩ
- 40MΩ
- 60MΩ
- 60MΩ
- 60MΩ
- AC Millivolts
- 0
- 0
- 0
- 0
- 0
- 0
- DC Millivolts
- 0
- 0
- 0
- 0
- 0
- 0
- AC Milliamps
- 0
- 0
- 0
- 0
- 0
- 0
- DC Milliamps
- 0
- 0
- 0
- 0
- 0
- 0
- True RMS
- 0
- 0
- 0
- 0
- 0
- 0
- Audible Continuity
- 0
- 0
- 0
- 0
- 0
- 0
- Backlight
- 0
- 0
- 0
- 0
- 0
- 0
- Non-Contact Voltage Testing
- 0
- 0
- 0
- 0
- 0
- 0
- Non-Contact Voltage Testing
- 0
- 0
- 0
- 0
- 0
- 0
- Auto Ranging
- 0
- 0
- 0
- 0
- 0
- 0
- Range Hold
- 0
- 0
- 0
- 0
- 0
- 0
- Data Hold
- 0
- 0
- 0
- 0
- 0
- 0
- Capacitance Test
- 4000 µF
- 6000 µF
- 6000 µF
- 0
- 0
- 0
- Frequency / Duty Cycle
- 10Hz – 1MHz
- 1Hz – 500 kHz
- 1Hz – 500 kHz
- 0
- 0
- 0
- Max / Min
- MAX only
- MAX only
- MAX only
- 0
- 0
- 0
- Magneto-Photovoltaic
- Available As Accessory
- Available As Accessory
- Available As Accessory
- Available As Accessory
- Available As Accessory
- Available As Accessory
- Worklight
- Available As Accessory
- Available As Accessory
- Available As Accessory
- Available As Accessory
- Available As Accessory
- Available As Accessory
- Auto-Power Off
- 0
- 0
- 0
- 0
- 0
- 0
- BarGraph
- Available As Accessory
- Available As Accessory
- Available As Accessory
- Available As Accessory
- Available As Accessory
- Available As Accessory
- Magnetic Mount
- Available As Accessory
- Available As Accessory
- Available As Accessory
- Available As Accessory
- Available As Accessory
- Available As Accessory
- Auto-Power Off
- 0
- 0
- 0
- 0
- 0
- 0
- Battery Test
- 0
- 0
- 0
- 0
- 0
- 0
- LCD Display Count
- 2000
- 2000
- 4000
- 6000
- 6000
- 6000

### Specifications
- Subject to change.

### Digital Clamp Meters

#### CL110 / CL210 / CL310 / CL600 / CL700 / CL800

#### Digital Multimeters

#### MM300 / MM400 / MM600 / MM700

#### Specifications
- Subject to change.
The MM600 and MM700 include a nylon carrying pouch, test leads, alligator clips, batteries and thermocouple with adapter.

The MM600 is an auto-ranging digital multimeter that measures AC/DC voltage, AC/DC current, and resistance. It also measures temperature, capacitance, frequency, duty-cycle, and tests diodes and continuity.

The MM700 is an auto-ranging True Root-Mean-Squared (TRMS) digital multimeter that measures AC/DC voltage, AC/DC current, and resistance. It also measures temperature, capacitance, frequency, duty-cycle, and tests diodes and continuity.

Specifications subject to change.

INCLUDED:
- Pouch
- Test leads with CAT III/CAT IV safety caps
- Alligator clips
- Thermocouple with adapter
- Batteries

### MEASUREMENT

<table>
<thead>
<tr>
<th></th>
<th>MM600</th>
<th>MM700</th>
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<tbody>
<tr>
<td>AC/DC Voltage</td>
<td>1000V</td>
<td>1000V</td>
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<tr>
<td>AC/DC Current</td>
<td>10A</td>
<td>10A</td>
</tr>
<tr>
<td>Resistance</td>
<td>40Mohm</td>
<td>40Mohm</td>
</tr>
<tr>
<td>DC Millivols</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AC/DC Milliamps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AC/DC Microamps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>True RMS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Audible Continuity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Backlight</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td>0° – 1000°F (-18° – 538°C)</td>
<td>0° – 1500°F (-18° – 816°C)</td>
</tr>
<tr>
<td>Low Impedence (Low Z)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auto-Ranging</td>
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</tr>
<tr>
<td>Range Hold</td>
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<tr>
<td>Data Hold</td>
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</tr>
<tr>
<td>Diode Test</td>
<td></td>
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</tr>
<tr>
<td>Capacitance Test</td>
<td>1000 µF</td>
<td>4000 µF</td>
</tr>
<tr>
<td>Frequency/Duty Cycle</td>
<td>1 Hz – 500 KHz</td>
<td>1 Hz – 500 KHz</td>
</tr>
<tr>
<td>Max/Min Value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lead Warning</td>
<td></td>
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</tr>
<tr>
<td>Bar Graph</td>
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<tr>
<td>Auto Power-Off</td>
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<tr>
<td>LCD Display Count</td>
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### DURABILITY

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<thead>
<tr>
<th></th>
<th>MM600</th>
<th>MM700</th>
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<tr>
<td>Ingress Protection</td>
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<td>IP42</td>
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<tr>
<td>Drop Protection</td>
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<td>6.6 ft. (2 m)</td>
</tr>
<tr>
<td>Safety Rating</td>
<td>CAT IV 600V</td>
<td>CAT IV 600V</td>
</tr>
</tbody>
</table>

Magnetic hanger 69417 (optional)

8 9
The MM300 is a manual-ranging digital multimeter that measures AC/DC voltage, DC current, and resistance. It also tests diodes and continuity, and has a battery test mode.

The MM400 is an auto-ranging digital multimeter that measures AC/DC voltage, AC/DC current, and resistance. It also measures temperature, capacitance, frequency, duty-cycle, and tests diodes and continuity.

The MM300 and MM400 multimeters include test leads and batteries. The MM400 also includes a thermocouple with adapter.

### MEASUREMENT

<table>
<thead>
<tr>
<th>Function</th>
<th>MM300</th>
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<tbody>
<tr>
<td>AC/DC Voltage</td>
<td>600V</td>
<td>600V</td>
</tr>
<tr>
<td>AC Current</td>
<td>—</td>
<td>10A</td>
</tr>
<tr>
<td>DC Current</td>
<td>—</td>
<td>10A</td>
</tr>
<tr>
<td>Resistance</td>
<td>2MΩ</td>
<td>40MΩ</td>
</tr>
<tr>
<td>DC Millivolts</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>AC Milliamps</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>DC Milliamps</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>AC Microamper</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>DC Microamps</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Audible Continuity</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Backlight</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Temperature</td>
<td>0°F – 100°F (−18°C – 538°C)</td>
<td>—</td>
</tr>
<tr>
<td>Auto-Ranging</td>
<td>—</td>
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<td>Range Hold</td>
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<td>Data Hold</td>
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<td>—</td>
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<tr>
<td>Diode Test</td>
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<td>—</td>
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<tr>
<td>Capacitance Test</td>
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<td>220 µF</td>
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<td>Max/Min Value</td>
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<td>LCD Display Count</td>
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### DURABILITY

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<th>Feature</th>
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<tr>
<td>Drop Protection</td>
<td>3.3 ft. (1 m)</td>
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</tr>
<tr>
<td>Safety Rating</td>
<td>CAT III 600V</td>
<td>CAT III 600V</td>
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Specifications subject to change.
**Non-Contact Voltage Testers**

- **NCVT-1**
  - Detects standard voltage (48-1000V AC) in cables, cords, circuit breakers, lighting fixtures, switches, outlets and wires.

- **NCVT-3**
  - Detects 12-1000V AC and includes a bright LED flashlight that illuminates dark or dimly-lit work areas. Rated IP67: dustproof/waterproof, it can withstand a 6.6 ft. (2m) drop.

- **NCVT-2**
  - Detects low voltage (12-48V AC) in addition to standard voltage, and is perfect for use in security, entertainment, communications, environmental control and irrigation systems.

**Receptacle Testers**

- **RT110**
  - Designed to detect the most common wiring problems! Quickly diagnoses common wiring faults in standard grounded outlets.

- **RT210**
  - Works with both standard and GFCI (ground fault circuit interrupter) outlets.

**Accessories**

- **Replacement Test Leads**
  - Compatible with all Klein meters and most other brands. Includes screw-on alligator clips. Safety rating: CAT IV 600V, CAT III 1000V.

- **Line Splitter 10x 69409**
  - Allows the measurement of current draw up to 15A without having to split the load's power cord. For use with all Klein clamp meters.

**Electrical Testers**

- **RT110**
  - Detects voltage (48-1000V AC) in cables, cords, circuit breakers, lighting fixtures, switches, outlets and wires.

- **RT210**
  - Detects low voltage (12-48V AC) in addition to standard voltage, and is perfect for use in security, entertainment, communications, environmental control and irrigation systems.

**Test Kits**

- **Electrical Test Kit 69149**
  - Easy-to-use kit to diagnose electrical problems quickly. Kit includes: MM300 Digital Multimeter, NCVT-1 Non-Contact Voltage Tester, RT105 Receptacle Tester, test leads and batteries.

**Replacement Test Leads**

- **RT110**
  - Designed to detect the most common wiring problems! Quickly diagnoses common wiring faults in standard grounded outlets.

**Carrying Case 69401**

- Practical pouch for use with Klein meters and other small tools. Constructed of 600 denier polyester, with heavy duty zipper. Dimensions: 4 x 9-1/4 x 2-1/2" (102 x 235 x 57 mm).

**Magnetic Hanger 69417**

- For use with Klein Tools MM300, MM400, MM600 and MM700 multimeters and CL600, CL700 and CL800 clamp meters.

**Magnetic Hanger 69190**

- For use with previous-generation Klein Tools multimeters MM1000, MM1300, MM2000 and MM2300.
See our complete line of Test & Measurement products at www.kleintools.com