After 20 years and 15 enhancements, the Fluke 70 Series is a whole new meter.
Discover the Fluke 170 Series.
It’s not your old 70 Series.

15 improvements

- Three times more accurate
- True-rms
- Larger, easier-to-read display
- Backlight
- CAT III 1000 V/CAT IV 600 V safety ratings
- Temperature
- Min/Max Average
- Frequency
- Capacitance
- 1000 V maximum ac voltage
- Battery door
- Probe holders
- ToolPak™ optional magnetic hanging device
- Limited lifetime warranty

Safer, more accurate and easier to use
When the Fluke 70 Series was first introduced, it revolutionized digital multimeters. Since that time, Fluke hasn’t rested. We listened to our customers. We made continuous improvements. And now we invite you to discover and compare the new Fluke 170 series Digital Multimeter. It’s not your old 70 Series.

More measurements, more accurately
The Fluke 179 has 0.09 % dc accuracy. Three times more accurate than the original 70 Series. Accuracy that lets you measure more sensitive electronics found on circuit boards and power supplies.

In 1997, we added true-rms for more accurate measurements, especially on non-linear waveforms.

Many of our customers, especially HVAC and plant maintenance technicians, wanted temperature. So we added temperature and a thermocouple accessory. And with more than a dozen accessories, you can take almost any type of temperature measurement.

Intermittent problems are always frustrating. So Fluke engineered Min/Max/Average. It measures the highest, lowest and average readings over time. If there’s an intermittent problem, Min/Max/Average can help you find it.

Fluke added frequency capability for troubleshooting power distribution and control systems. With capacitance measurement from 1.0 nF to 10,000 µF, the 179 lets you troubleshoot circuit boards at the component level. And with 1000 V maximum ac voltage, you can handle most industrial applications.

Newer safety ratings could save your life
Arc faults. Spikes. Transients. Surges. Sudden overvoltage events. As electrical systems grow more complex, these dangers become more common. And a threat to you. That’s why the IEC 61010 safety standard was created. And rest assured, the Fluke 170 Series meters are independently tested and certified to meet the rigorous IEC 61010 safety standards. Older meters, created before 1998, are not certified under the new, more stringent standard.

The Fluke 170 Series meters are rated Measurement Category III, 1000 V and Measurement Category IV, 600 V. They can withstand transient impulses in excess of 8,000 volts. Assuring your protection from surges, spikes and transients.
Easier to use
After dozens of customer interviews, the 170 Series was designed to make measurements easier. The new 170 Series has a larger display, with larger digits and a backlight to make measurements easier to read, especially in dim workspaces.

We added a special battery door, so you can change the batteries without taking the meter apart, or breaking the calibration seal. Plus, built-in probe holders let you store your probes on the back of your meter.

Our customers have told us that sometimes they need “three hands” to take a measurement. One for each probe. And a third one for the meter. In response, we created the optional ToolPak™ Magnetic Hanging accessory. Two Velcro straps allow you to hang the 170 Series from a hook or pipe. Plus the magnet lets you attach it to a metal cabinet or doorframe.

In total, the Fluke 170 Series is 15 ways better than your old 70 Series meter. And since the interface hasn’t changed, just improved, there’s no retraining involved.
Fluke is so confident of the quality and workmanship of the Fluke 170 Series that we guarantee it with a limited lifetime warranty. So step up to the new Fluke 170 Series with greater accuracy, greater safety and ease-of-use. The Fluke 170 Series. It’s not your old 70 Series.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Old 77</th>
<th>New 179</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>True-rms</td>
<td>No</td>
<td>Yes</td>
<td>Accurate on non-linear signals</td>
</tr>
<tr>
<td>Accuracy, basic dc</td>
<td>0.3 %</td>
<td>0.09 %</td>
<td>Three times more accurate</td>
</tr>
<tr>
<td>Temperature</td>
<td>No</td>
<td>Yes</td>
<td>No need for a separate thermometer</td>
</tr>
<tr>
<td>Min / Max / Average</td>
<td>No</td>
<td>Yes</td>
<td>Capture intermittent problems</td>
</tr>
<tr>
<td>Display size</td>
<td>Small</td>
<td>20 % larger</td>
<td>Large, easy to read</td>
</tr>
<tr>
<td>Display backlight</td>
<td>No</td>
<td>Yes</td>
<td>Works in dim areas</td>
</tr>
<tr>
<td>Simple to use</td>
<td>Yes</td>
<td>Yes</td>
<td>No retraining required</td>
</tr>
<tr>
<td>Probe holders</td>
<td>Yes</td>
<td>Improved</td>
<td>One-hand operation</td>
</tr>
<tr>
<td>Measurement category safety rating</td>
<td>Not rated</td>
<td>CAT IV 600 CAT III 1000</td>
<td>Higher level of protection from arc and shock hazards</td>
</tr>
<tr>
<td>Optional magnetic hanger</td>
<td>No</td>
<td>Yes</td>
<td>Position meter in best location</td>
</tr>
<tr>
<td>Warranty</td>
<td>Expired</td>
<td>Limited lifetime</td>
<td>Rugged and reliable design</td>
</tr>
<tr>
<td>Frequency</td>
<td>No</td>
<td>Yes</td>
<td>Built in frequency counter</td>
</tr>
<tr>
<td>Capacitance</td>
<td>No</td>
<td>Yes</td>
<td>Measure motor capacitors and components</td>
</tr>
<tr>
<td>Max. ac voltage</td>
<td>750</td>
<td>1000</td>
<td>Wider measurement range</td>
</tr>
<tr>
<td>Battery door</td>
<td>No</td>
<td>Yes</td>
<td>Fast battery changes</td>
</tr>
</tbody>
</table>

The highest safety rating available.

Measures temperature from −40 °F to +1752 °F
(−40 °C to +400 °C)

More than a dozen enhancements make the 179 faster, safer, more accurate and easier-to-use.
170 Series features

<table>
<thead>
<tr>
<th>Feature</th>
<th>175</th>
<th>177</th>
<th>179</th>
<th>179/TPK</th>
</tr>
</thead>
<tbody>
<tr>
<td>True-rms for accurate ac measurement</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Built-in thermometer</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Basic dc accuracy</td>
<td>0.15 %</td>
<td>0.09 %</td>
<td>0.09 %</td>
<td>0.09 %</td>
</tr>
<tr>
<td>Backlight for use in dark areas</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Min/Max/Avg to capture intermittents</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>ToolPak meter hanging kit with magnet</td>
<td>Opt</td>
<td>Opt</td>
<td>Opt</td>
<td>Included</td>
</tr>
</tbody>
</table>

For information on calibration go to www.fluke.com/service

Recommended accessories

- TL71
- TL220
- C25
- 80T-IR
- 805-400
- 12000 Flex
- FOM
- 80AX

Electrician’s Multimeter and Voltage Tester Combo Kit*
- Fluke 179 true-rms digital multimeter
- Fluke 1AC non-contact voltage tester
- TL224 SureGrip™ silicone test leads
- TP220 SureGrip™ industrial test probes
- AC220 SureGrip™ heavy duty alligator clips
- 80BK integrated temperature probe
- C800 durable carrying case
- Ordering information: Fluke-179/1AC KIT

Electronics Multimeter and Deluxe Accessory Kit*
- Fluke 179 true-rms digital multimeter
- TL224 SureGrip™ silicone test leads
- TL910 electronic test probes
- AC220 SureGrip™ heavy duty hooks clips
- 80BK integrated temperature probe
- C800 durable carrying case
- Ordering information: Fluke 179/EDA KIT

* Contents may vary by country.

Fluke. Keeping your world up and running.

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Web access: http://www.fluke.com

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