

FLUKE®

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.



The Fluke 70 Series was introduced in 1983. It revolutionized test and measurement. The new 179 is fifteen ways better.

0.09 % basic accuracy is three times more accurate



A larger display, with larger digits and backlight make it easier to read.

Probe holders give you an easy place for storage. Plus, you can hold the meter and a probe in one hand while measuring with other.



Compare and see why the new Fluke 179 Digital Multimeter is better than your old 70 Series.

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

170 Series
15 ways better



ToolPak™ Magnetic Hanging accessory. Hang the 179 from a nail, pipe, or attach it to metal doorframe.

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.**



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

The highest safety rating available.



Measures temperature from -40 °F to +752 °F (-40 °C to +400 °C)



We're so confident in the Fluke 170 Series, that we gave it a limited lifetime warranty



True-rms

Buy
Combo Kit
and
Save



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
- AC280 SureGrip™ heavy duty hooks clips
- 80BK integrated temperature probe
- C800 durable carrying case
- Ordering information: Fluke 179/EDA KIT

* Contents may vary by country.

170 Series features

Functions					
~ A	Range	3 mA to 10.00A (20 A overload for 30 seconds)	Ω	Range	0.1 Ω to 50.00 MΩ
	Accuracy	± (1.5 % of reading plus 3 counts)		Best Accuracy	± (0.9 % of reading plus 1 count)
	Crest Factor	≤ 3		Range	1 nF to 9999 μF
- - A	Range	30 mA to 10.00A (20 A overload for 30 seconds)	- -	Best Accuracy	± (1.2 % of reading plus 2 counts)
	Accuracy	± (1.0 % of reading plus 3 counts)		Continuity Beeper guaranteed on < 25 Ω, guaranteed off > 250 Ω; detects opens or shorts of 250 μs or longer	
~ V	Range	30 mV to 1000 V	HZ	Range	Voltage Input: 2 Hz to 100 kHz Current Input: 2 Hz to 30 kHz
	Accuracy	45 Hz to 500 Hz 1 % of rdg + 3 counts 500 Hz to 1 kHz 2 % of rdg + 3 counts		Accuracy	± (0.1 % of reading plus 1 count)
- - V	Range	0.1 mV to 1000 V	Temp	Range (179)	-40 °C to +400 °C, -40 °F to +752 °F
	Accuracy (175)	± (0.15 % of reading plus 2 counts)		Accuracy (179)	1 % + 1.0 °C, 1 % + 1.8 °F
(177 & 179)		± (0.09 % of reading plus 2 counts)			

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

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

Recommended accessories

 TL71	 TL220	 C25	 80T-IR	 80I-400
 i410	 ToolPak	 i2000 Flex	 FOM	 80AK

Accessories and ordering information

Included accessories

Every Fluke 170 Series meter comes packaged with TL75 test leads, 9 V battery (installed), and manual. The Fluke 179 comes with an 80BK Temperature Probe.

Ordering information

- Fluke-175 Digital Multimeter
- Fluke-177 Digital Multimeter with backlight
- Fluke-179 Digital Multimeter with backlight and temperature
- Fluke-179/1AC Electricians Combo Kit
- Fluke-179/EDA Electronic Combo Kit
- Fluke-179/TPK Digital Multimeter with magnetic hanger

Fluke. Keeping your world up and running.

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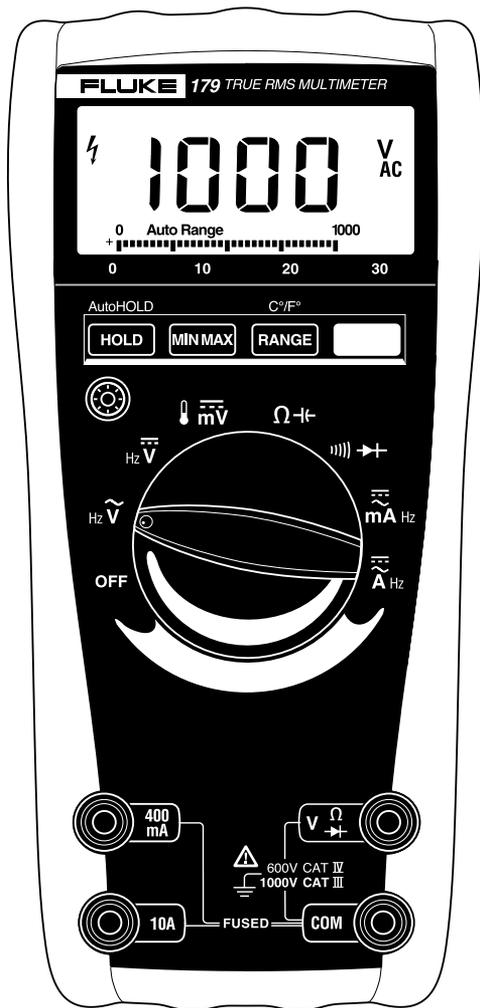
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FLUKE®

The Fluke 170 Series Digital Multimeters

Brains and Brawn

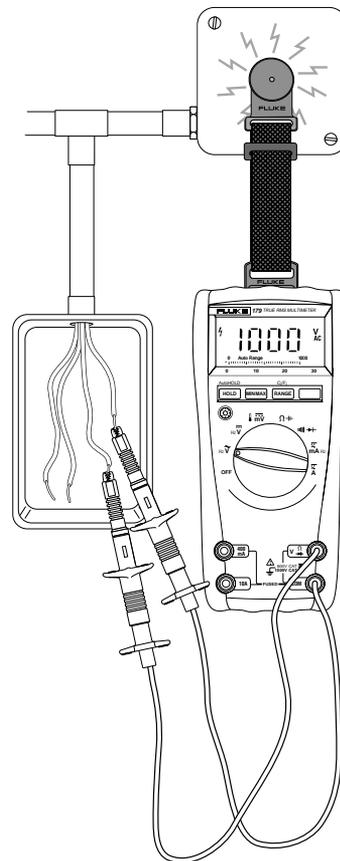
New



Tough. Precise. Packed with features:

- Lifetime warranty
- IEC 1010 CAT IV 600V safety rating
- 6000 count display
- True-rms ac voltage and current
- Min/Max/Average
- Frequency and capacitance capabilities
- Easy access battery door
- The 179 measures temperature in °C and °F

Hang meter using Fluke ToolPak™ Strap and Magnet



Get our ToolPak™ and free both hands to finish jobs faster and easier. You get a powerful magnet, a loop hanger and two straps—for hanging your meter from almost anything while you work.



Features	175	177	179
6000 count display	•	•	•
Auto Hold and Manual Hold	•	•	•
IEC 1010 Rating: CAT IV 600V / CAT III 1000V	•	•	•
Backlight for measurements in low visibility environments		•	•
Temperature measurements in °C and °F, Thermocouple included			•
Battery door provides battery access without breaking the calibration seal	•	•	•
Compatible with Fluke ToolPak™ meter hanging kit	•	•	•

		Fluke 175	Fluke 177	Fluke 179
\tilde{A}	Range	0.01 mA to 10.00A (20A overload for 30 seconds)	0.01 mA to 10.00A (20A overload for 30 seconds)	0.01 mA to 10.00A (20A overload for 30 seconds)
	Accuracy	± (1.5% of reading plus 3 counts)	± (1.5% of reading plus 3 counts)	± (1.5% of reading plus 3 counts)
	Crest Factor	≤ 3	≤ 3	≤ 3
	AC Response	45 Hz to 1 kHz	45 Hz to 1 kHz	45 Hz to 1 kHz
\overline{A}	Range	0.01 mA to 10.00A (20A overload for 30 seconds)	0.01 mA to 10.00A (20A overload for 30 seconds)	0.01 mA to 10.00A (20A overload for 30 seconds)
	Accuracy	± (1.0% of reading plus 3 counts)	± (1.0% of reading plus 3 counts)	± (1.0% of reading plus 3 counts)
\tilde{V}	Range	0.1 mV to 1000V	0.1 mV to 1000V	0.1 mV to 1000V
	Accuracy	45 Hz to 500 Hz 1% of rdg + 3 counts 500 Hz to 1 kHz 2% of rdg + 3 counts	45 Hz to 500 Hz 1% of rdg + 3 counts 500 Hz to 1 kHz 2% of rdg + 3 counts	45 Hz to 500 Hz 1% of rdg + 3 counts 500 Hz to 1 kHz 2% of rdg + 3 counts
	AC Response	45 Hz to 1 kHz	45 Hz to 1 kHz	45 Hz to 1 kHz
	Range	0.1 mV to 1000V	0.1 mV to 1000V	0.1 mV to 1000V
\overline{V}	Accuracy	± (0.15% of reading plus 2 counts)	± (0.09% of reading plus 2 counts)	± (0.09% of reading plus 2 counts)
	Range	0.1Ω to 50.00 MΩ	0.1Ω to 50.00 MΩ	0.1Ω to 50.00 MΩ
Ω	Best Accuracy	± (0.9% of reading plus 1 count)	± (0.9% of reading plus 1 count)	± (0.9% of reading plus 1 count)
	Range	1 nF to 9999 μF	1 nF to 9999 μF	1 nF to 9999 μF
⏏	Best Accuracy	± (1.2% of reading plus 2 counts)	± (1.2% of reading plus 2 counts)	± (1.2% of reading plus 2 counts)
	Continuity	Beeper guaranteed on <25Ω, guaranteed off >250Ω; detects opens or shorts of 250 μs or longer		
Hz	Range	Voltage Input: 2 Hz to 100 kHz Current Input: 2 Hz to 30 kHz	Voltage Input: 2 Hz to 100 kHz Current Input: 2 Hz to 30 kHz	Voltage Input: 2 Hz to 100 kHz Current Input: 2 Hz to 30 kHz
	Accuracy	± (0.1% of reading plus 1 count)	± (0.1% of reading plus 1 count)	± (0.1% of reading plus 1 count)
Temp	Range			-40°C to +400°C, -40°F to +752°F
	Accuracy			°C 1% + 10, °F 1% + 18

Available Fluke Accessories	175, 177, 179
Meter Hanging	ToolPak magnet and strap kit
Cases	C510 leather meter case C50 padded meter case C20 hard meter case
Test Leads	All Fluke Test Leads
Current Clamp	All Fluke Current Clamp Accessories
Temperature	80TK Thermocouple Module 80T-150U Univ. Temperature Probe 80AK Thermocouple Adapter (179 only) 80T-IR/80PK-IR Temperature Probe
Specialty	80K-6, 80K-40 High Voltage Probe PV 350 Pressure Module FOM Fiber Optic Meter

For detailed specifications contact your local Fluke representative, or visit www.fluke.com. Specifications are subject to change without notice.

Ordering Information

Fluke 175 Digital Multimeter
Fluke 177 Digital Multimeter
Fluke 179 Digital Multimeter

Need Technical Assistance? Call:

1-800-44-FLUKE

Toll-free in the U.S.

(800) 36-FLUKE in Canada

(425) 446-5500 other countries

For more information to be sent to you by fax, call 1-800-FLUKE-FAX in the U.S. and Canada. Or, visit our Website at <http://www.fluke.com>

Fluke. Keeping your world up and running.