

Fluke 73, 77, 175, 177 and 179 Digital true-rms Multimeters

Versatile meters for maintenance, field service and bench repair.



The 170 Series have the features needed to find most electrical, electronic, electro-mechanical and heating and ventilation problems. They are simple to use and have significant improvements over Fluke's original 70 Series like true-rms, more measurement functions, conformance to the latest safety standards, and a much larger display that's easier to view.

170 Series features include:

- Wide 1000 V measurement range
- True-rms for precise measurement of non linear signals
- Capacitance, resistance, continuity and frequency
- Built-in thermometer (179)
- Large, easy-to-read display
- Backlight for work in dim areas (177, 179)
- Min/Max to record signal fluctuations
- Free your hands with the optional TPAK magnetic hanger

Electrical safety

All inputs are protected to measurement Category III 1000 V and Category IV 600 V. They can withstand transient impulses in excess of 8000 V assuring your protection from surges and spikes.



True-rms

Why you need a true-rms meter

- Electronic loads with switching power supplies or inverters distort the ac voltage and current sine wave
- Non true-rms meters can measure up to 40 % low
- True-rms meters make the most accurate measurements when the sine wave is distorted

Waveform		Non True-rms meter	True-rms meter
	Normal sine wave	Correct	Correct
	Square wave	Reads 10 % high	Correct
	Inverter input current	Reads 40 % low	Correct
	Three phase rectified	Reads 5-30 % low	Correct



For Combo

Kits, see page 5:

- Electrician's 179 Multimeter and Voltage Tester Combo Kit
- Electronics 179 Multimeter and Deluxe Accessory Combo Kit
- 179 and IR Thermometer Combo Kit

Features - 70 and 170 Series DMMs

Feature	73	77	175	177	179	179/TPK
Max voltage	600	1000	1000	1000	1000	1000
True-rms			•	•	•	•
Temperature					•	•
Basic dc accuracy	0.3 %	0.3 %	0.15 %	0.09 %	0.09 %	0.09 %
Backlight				•	•	•
Min/Max/Avg			•	•	•	•
ToolPak meter hanging kit with magnet			Opt	Opt	Opt	Included

Fluke 73 and 77

Basic autoranging multimeters with TouchHold® to freeze the measurement display. Includes holster and test leads.



Fluke 73

Specifications - 170 Series

Function	Range and resolution	Best accuracy
VDC	600.0 mV, 6.000 V, 60.00 V, 600.0 V, 1000 V	± 0.09 % (Models 177 and 179) ± 0.15 % (Model 175)
VAC ¹	600.0 mV, 6.000 V, 60.00 V, 600.0 V, 1000 V	± 1.0 % of reading
ADC	60.00 mA, 400.0 mA, 6.000 A, 10.00 A ²	± 1.0 % of reading
AAC ²	60.00 mA, 400.0 mA, 6.000 A, 10.00 A ²	± 1.5 % of reading
Resistance	600.0 Ω, 6.000 kΩ, 60.00 kΩ, 600.0 kΩ, 6.000 MΩ, 50.00 MΩ	± 0.9 % of reading
Capacitance	1000 nF, 10.00 μF, 100.0 μF, 9999 μF	± 1.2 % of reading
Frequency ³	99.99 Hz, 999.9 Hz, 9.999 Hz, 99.99 kHz	± 0.1 % of reading
Temperature (Model 179)	-40 °C to +400 °C (-40 °F to +752 °F)	1.0 % of reading

¹All ac voltage and ac current ranges are specified from 5 % of range to 100 % of range.
²10 A continuous, 20 A for up to 30 seconds.
³Voltage frequency is specified from 2 Hz to 100 kHz. Current Frequency is specified from 2 Hz to 30 kHz.
 Battery life: 200 hours typical for alkaline. Size (HxWxL): 4.3 cm x 9.0 cm x 18.5 cm (1.7 in x 3.5 in x 7.3 in)
Limited lifetime warranty

Recommended accessories - 70 and 170 Series DMMs



For more information, go to www.MyFlukeStore.com

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
- Fluke-179 Digital Multimeter
- Fluke-73-3 Digital Multimeter
- Fluke-77-3 Digital Multimeter
- Fluke-179/61 Combo Kit
- Fluke-179/1AC Electricians Combo Kit
- Fluke-179/EDA Combo Kit
- Fluke-179/TPK Combo Kit