

170 Series Digital Multimeters

Setting the new standard

True-rms



The three models of the new 170 Series are the new benchmarks for general purpose multimeters. They set the standard with a combination of precision, features, ease-of-use, safety and reliability.

All models offer True RMS AC voltage and current readings, 6000-count resolution, min-max-average recording, as well as frequency and capacitance ranges.

Despite all these and many other useful features, the 170 Series remain easy to use.

The ergonomic case with integrated holster protects the units in rough and tough environments. To change the

batteries, the case does not have to be opened as access to the batteries is through an easy-to-open battery door.

Safety Conformance

All inputs are protected to EN61010-1 CAT IV 600V/CAT III 1000V. UL, CSA, TÜV listed and VDE pending.

Features

	175	177	179
True-rms measurements	AC	AC	AC
Digital display counts, updates 4 times per second	6000	6000	6000
Display backlight		●	●
Analog bargraph / segments, updates 40 times per second	33-segments	33-segments	33-segments
Auto and Manual ranging	●	●	●
Display Hold and Auto Hold	●	●	●
Min-Max-Average recording mode with Min/Max Alert	●	●	●
Temperature readings (bead thermocouple probe included)			●
Smoothing mode allows filtering of rapidly changing inputs	●	●	●
Audible continuity and diode test	●	●	●
Test lead alert	●	●	●
Unsafe voltage alert warns for voltages above 30V	●	●	●
Low battery indication	●	●	●
Ergonomic case with integrated holster	●	●	●
Easy battery exchange without opening the complete case	●	●	●
Selectable sleep mode preserves battery life	●	●	●



Accessories and Ordering Information

Included Accessories:

TL75 test leads, installed 9V battery and users manual. The 179 also includes the 80BK temperature probe.

Ordering information:

FLUKE 175 Digital Multimeter
 FLUKE 177 Digital Multimeter
 FLUKE 179 Digital Multimeter

Pub_ID: 10342-eng
 Rev. 01

Specifications

Functions	Maximum	Max. resolution	175	177	179
Voltage DC	1000 V	0.1 mV	±(0.15%+2)	±(0.09%+2)	±(0.09%+2)
Voltage AC	1000 V	0.1 mV	±(1.0%+3)	±(1.0%+3)	±(1.0%+3)
Current DC	10 A	0.01 mA	±(1.0%+3)	±(1.0%+3)	±(1.0%+3)
Current AC	10 A	0.01 mA	±(1.5%+3)	±(1.5%+3)	±(1.5%+3)
Resistance	50 MΩ	0.1Ω	±(0.9%+1)	±(0.9%+1)	±(0.9%+1)
Capacitance	10000 μF	1 nF	±(1.2%+2)	±(1.2%+2)	±(1.2%+2)
Frequency	100 kHz	0.01 Hz	±(0.1%+1)	±(0.1%+1)	±(0.1%+1)
Temperature	-40°C/+400°C	0.1°C			±(1.0%+10)

Accuracies are best accuracies for each function

Battery Life : Alkaline, 200 hrs typical

Size (HxWxD) : 185 mm x 90 mm x 43 mm

Weight : 420 g

Lifetime Warranty