

# 170 Series Digital Multimeters

True RMS

Setting the new standard for industrial maintenance and field service



EN 61010-1  
CAT III 1000V  
CAT II 600V

Lifetime Warranty!  
Keep your Fluke meter up and running

The three models of the 170 Series are the 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 and VDE listed.

## 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**  
Test leads with 4 mm lantern tips and protective cap, installed 9V battery and users manual. The 179 also includes the 80BK temperature probe.

Replacement test leads:  
TL76 All-in-one Test Lead Set

**Ordering Information**

- Fluke 175 True RMS Multimeter
- Fluke 177 True RMS Multimeter
- Fluke 179 True RMS Multimeter
- Fluke 179/EDA Kit Electronics Combo Kit
- Fluke 179/MAG Kit Industrial Combo Kit
- Fluke 179/61 Kit Multimeter and IR Thermometer Kit

## Specifications

Functions	Maximum	Max. resolution	175	177	179
Voltage DC	1000V	0.1mV	±(0.15%+2)	±(0.09%+2)	±(0.09%+2)
Voltage AC	1000V	0.1mV	±(1.0%+3)	±(1.0%+3)	±(1.0%+3)
Current DC	10A	0.01mA	±(1.0%+3)	±(1.0%+3)	±(1.0%+3)
Current AC	10A	0.01mA	±(1.5%+3)	±(1.5%+3)	±(1.5%+3)
Resistance	50MΩ	0.1Ω	±(0.9%+1)	±(0.9%+1)	±(0.9%+1)
Capacitance	10000µF	1nF	±(1.2%+2)	±(1.2%+2)	±(1.2%+2)
Frequency	100kHz	0.01Hz	±(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** : 0.42 kg  
**Lifetime Warranty**