

- 33 segment bargraph which updates 40 times per second
- Compact case with removable protective holster with probeholders
- Easy battery exchange without opening full unit
- Low battery indicator
- Selectable sleep mode to preserve battery life
- CAT III 600V **EN61010-1** safety rating on all inputs
- 3 year warranty

Model Differences (all other specifications are the same for each model)

Feature	110	111	112
Current Measurement		●	●
Display backlight			●
Functions	Maximum	Resolution	110
Voltage DC	600V	1mV	+/- (0.7% +2)
Voltage AC	600V	1mV	+/- (1.0% +3)
Current DC	10A continuous (20A 30s overload)	1mA	N/A
Current AC	10A continuous (20A 30s overload)	10mA	N/A
Resistance	40MR	0.1R	+/- (0.9% +1)
Capacitance	10000μF	1nF	+/- (1.9% +2)
Frequency	50kHz	0.01Hz	+/- (0.1% +2)

Accuracies are best accuracies for each function  
Battery life: Alkaline, 300 hours typical  
Weight: 350g

Prices where indicated by a **†** are subject to change. Please call your local sales office or visit [www.farnellinone.com](http://www.farnellinone.com) for the latest prices.

228190

Mfrs. List No.	Order Code	1+	+	+	+
FLUKE 110	355-8642	†	†	†	†
FLUKE 111	355-8654	†	†	†	†
FLUKE 112	355-8666	†	†	†	†
C101 Carry Case	947-9783	†	†	†	†
Standard Calibration Charge	S†C2				
UKAS Calibration Charge	N†C2				

Digital Multimeters

170 Series



H=183, W=90, D=43

The three models of the new 170 Series are the new benchmarks for the general-purpose multimeters. The three models: the 175, 177 and the 179 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 of these and many other useful features, the 170 Series remains 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. All inputs are protected to **EN61010-1 CAT IV 600V/CAT 111 1000V**. The Fluke 170 Series is supplied with TL75 test leads, installed 9V battery and user manual and comes with Fluke's unique lifetime warranty.

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 warns for improper connection of test leads	●	●	●
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	●	●	●
Warranty	Lifetime	Lifetime	Lifetime
<b>EN 61010-1</b> safety rating on all inputs	CAT III 1000V CAT IV 600V	CAT III 1000V CAT IV 600V	CAT III 1000V CAT IV 600V

Accuracies are best accuracies for each function

Battery life Alkaline, 200 hrs typical  
Weight 420g  
Warranty Lifetime

Prices where indicated by a **†** are subject to change. Please call your local sales office or visit [www.farnellinone.com](http://www.farnellinone.com) for the latest prices.

228196

Mfrs. List No.	Order Code	1+	+	+	+
FLUKE 175	355-8678	†	†	†	†
FLUKE 177	355-8680	†	†	†	†
FLUKE 179	355-8691	†	†	†	†
C101 Carry Case	947-9783	†	†	†	†
Standard Calibration Charge	S†C3				

Digital Multimeter

80 Series V

FLUKE



The new Fluke 80 Series V has improved measurement functions, troubleshooting features, resolution and accuracy to solve more problems on motor drives, in plant automation, power distribution, and electro-mechanical equipment. The 80 Series V operates very similar to the classic 80 Series, but with more problem solving power, safety, convenience and impact protection.

LATEST PRICING

- True-RMS voltage and current for accurate measurements on non linear signals
- Large display with analog bargraph and 2 level bright white back-light
- Auto and manual ranging for maximum flexibility
- Relative mode to remove test lead resistance from low ohms measurements
- Min-Max-Average recording with Min/Max Alert to capture variations automatically
- Touch Hold to capture stable readings avoiding noisy signals
- Audible continuity, diode test and duty cycle
- Input Alert
- Classic design with new removable holster with built in test lead and probe storage
- Improved selectable sleep mode for long battery life
- Easy battery and fuse exchange without opening the complete case

87V extra features:

- Selectable filter for accurate voltage and frequency measurements on motor drives
- Built-in thermometer
- Peak capture to record transients as fast as 250μs

Fluke 87V/E Industrial Electrician Combo Kit includes:

- 0.5 m heat resistant silicone test leads
- Removeable test probes with 4mm of exposed metal for use on industrial circuits
- Retractable long reach alligator clips
- Magnetic hanger to position and hold meter to steel surfaces
- Temperature probe
- Durable carrying case

H80M Holster

- Yellow holster for all 80 series DMMs (new as well as old)
- Hanging magnet
- Hook and loop straps
- General purpose hanger

Retrofit Kit:

A refurbishment kit for those wishing to upgrade their older 80 series III multimeters, containing C81Y holster, DR80 display upgrade kit, TL71 premium test leads, AC72 alligator clip set F1 + F2 replacement fuses and Meter Cleaner<sup>™</sup> wipes.

	83V			87V	
Functions	Maximum range	Max resolution	Accuracy	Max resolution	Accuracy
Voltage DC	1000V	0.1mV	±(0.1%+1)	10μV	±(0.05%+1)
Voltage AC	1000V	0.1mV	±(0.5%+2)	10μV	±(0.7%+2)
Current DC	10A	0.1μV	±(0.4%+2)	0.01μ	±(0.2%+2)
Current AC	10A	0.1μV	±(1.2%+2)	0.01μ	±(1.0%+2)
Resistance	50MΩ	0.1Ω	±(0.4%+1)	0.01Ω	±(0.2%+1)
Conductance	60nS	0.01nS	±(1.0%+10)	0.001nS	±(1%+10)
Capacitance	9999μF	0.01nF	±(1.0%+2)	0.01nF	±(1%+2)
Frequency	>200kHz	0.01Hz	±(0.005%+1)	0.01Hz	±(0.005%+1)
Temperature	-200 to 1090°C			0.1°C	1.0%
80BK temperature probe	-40 to 260°C				2.2°C or 2%

Prices where indicated by a **†** are subject to change. Please call your local sales office or visit [www.farnellinone.com](http://www.farnellinone.com) for the latest prices.