

Fluke 117 Electrician's Multimeter with Non-Contact Voltage

Technical Data



Actual size















Compact true-rms meter for commercial applications

The Fluke 117 is the ideal meter for demanding settings like commercial buildings, hospitals and schools. The 117 includes integrated non-contact voltage detection to help get the job done faster.

Features include:

- VoltAlert™ technology for non-contact voltage detection
- AutoVolt automatic ac/dc voltage selection
- LoZ: helps prevent false readings due to ghost voltage
- Large white LED backlight to work in poorly lit areas
- True-rms for accurate measurements on non-linear loads
- Measures 20 A (30 seconds momentary; 10 A continuous)
- Resistance, continuity, frequency and capacitance
- Min/Max/Average to record signal fluctuations
- \bullet Compatible with optional magnetic hanger (ToolPak ns) for hands free operation
- · CAT III 600 V safety rated

General specifications

Accuracy is specified for 1 year after calibration, at operating temperatures of 18 °C to 28 °C, with relative humidity at 0 % to 95 %.

The accuracy specifications take the form of: \pm ([% of reading] + [counts])

Maximum voltage between any terminal and earth ground	600 V
Surge protection	6 kV peak per IEC 61010-1 600 V CAT III, Pollution Degree 2
Fuse for A input	11 A, 1000 V FAST Fuse (Fluke PN 803293)
Display	Digital: 6,000 counts, updates 4/sec
Bar graph	33 segments, updates 32/sec
Operating temperature	-10 °C to + 50 °C
Storage temperature	-40 °C to + 60 °C
Battery	9 volt Alkaline, NEDA 1604A/ IEC 6LR61
Battery life	400 hours typical, without backlight



Accuracy specifications

Measurement	Range	Resolution	Accuracy ± ([% of reading] + [counts])
DC millivolts	600.0 mV	0.1 mV	2.0 % + 3
DC volts	6.000 V	0.001 V	
	60.00 V	0.01 V	
	600.0 V	0.1 V	
Auto volts	600.0 V	0.1 V	2.0 % + 3 (dc, 45 Hz to 500 Hz) 4.0 % + 3 (500 Hz to 1 kHz)
AC millivolts ¹ true-rms	600.0 mV	0.1 mV	1.0 % + 3 (dc, 45 Hz to 500 Hz) 2.0 % + 3 (500 Hz to 1 kHz)
AC volts¹ true-rms	6.000 V	0.001 V	
	60.00 V	0.01 V	1.0 % + 3 (45 Hz to 500 Hz) 2.0 % + 3 (500 Hz to 1 kHz)
	600.0 V	0.1 V	
Continuity	600 Ω	1 Ω	Beeper on < 20 Ω off > 250 Ω ; detects opens or shorts of 500 μ s or longer.
Ohms	600.0 Ω	0.1Ω	0.9 % + 2
	6.000 kΩ	0.001 kΩ	
	60.00 kΩ	0.01 kΩ	0.9 % + 1
	600.0 kΩ	0.1 kΩ	
	6.000 MΩ	0.001 ΜΩ	
	40.00 MΩ	0.01 ΜΩ	1.5 % + 2
Diode test	2.000 V	0.001 V	0.9 % + 2
Capacitance	1000 nF	1 nF	1.9 % + 2
	10.00 μF	0.01 μF	
	100.0 μF	0.1 μF	
	9999 μF	1 μF	
	100 μF to 1000 μF		1.9 % + 2
	> 1000 μF		5 % + 20
Lo-Z capacitance	1 nF to 500 μF		10 % + 2 typical
AC amps true-rms (45 Hz to 500 Hz)	6.000 A	0.001 A	1.5 % + 3
	10.00 A	0.01 A	
	20 A continuous overload for 30 seconds max.		
DC amps	6.000 A	0.001 A	1.0 % + 3
	10.00 A	0.01 A	
	20 A continuous overload for 30 seconds max.		
Hz (V or A input) ²	99.99 Hz	0.01 Hz	
	999.9 Hz	0.1 Hz	0.1 % + 2
	9.999 kHz	0.001 kHz	
	50.00 kHz	0.01 kHz	

Notes:

Ordering information

Electrician's Fluke-117 Multimeter with

Non-Contact Voltage

Included

TL75 Test leads, holster, User's manual and 9V battery (installed).



Fluke. Keeping your world up and running.

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¹ All ac voltage ranges are specified from 1 % to 100 % of range. Because inputs below 1 % of range are not specified, it is normal for this and other true-rms meters to display non-zero readings when the test leads are disconnected from a circuit or are shorted together. For volts, crest factor of ≤ 3 at 4000 counts, decreasing linearly to 1.5 at full scale. AC volts is ac-coupled. Auto-V LoZ, and ac mV are dc-coupled.

² Frequency is ac coupled, 5 Hz to 50 kHz for ac voltage. Frequency is dc coupled, 45 Hz to 5 kHz for ac current.



TECHNICAL DATA

Fluke C11XT Protective EVA Hard Tool Case



Key features

- Durable 240 x 155 mm EVA foam case to protect your tools and accessories
- Zipped pocket with ample space for multiple accessories
- Mesh pocket to fit smaller multimeters and other tools
- Carrying handle and zippers for convenience
- One-year warranty

Product overview: Fluke C11XT Protective EVA Hard Tool Case

The Fluke C11XT Protective Hard Case is designed to carry most smaller multimeters, process meters, temperature meters and similarly-sized products. The case is made of high quality 600D EVA foam and is meant to fit both tools and accessories. The durable exterior is meant to protect your tools more than a soft case would. When opened up, the case features a zipped pocket on the left for accessories and a mesh pocket on the right for multimeters and other tools.

What Products Will Fit?

- Fluke 175 True RMS Digital Multimeter
- Fluke 177 True RMS Digital Multimeter
- Fluke 179 True-RMS Digital Multimeter
- Fluke 323 True RMS Clamp Meter
- Fluke 324 True RMS Clamp Meter
- Fluke 325 True RMS Clamp Meter
- Fluke 113 Digital Multimeter



- Fluke 114 Electrical Multimeter
- Fluke 115 Digital Multimeter
- Fluke 116 Digital HVAC Multimeter
- Fluke 117 Electrician's Multimeter with Non-Contact Voltage

Cases As Tough As Your Fluke Tools

Specifications: Fluke C11XT Protective EVA Hard Tool Case

Key Features		
Dimensions (HxWxD)	240 x 155 x 105 mm (9.4 x 6.1 x 4.1 in)	
Material	EVA foam	
Storage compartments	One zippered pocket and one mesh pocket	



Ordering information



Fluke C11XT Protective EVA Hard Tool Case

Includes:

• Fluke C11XT Protective EVA Hard Tool Case



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TECHNICAL DATA

Fluke TPAK ToolPak™ Magnetic Meter Hanger



Key features

- Strong, rare-earth magnet hanger strap with Fluke durability
- Hang with magnet or hook strap for non-magnetic surfaces
- $\bullet\,$ Solves any hanging and positioning problem you may face
- Easily work hands-free

Product overview: Fluke TPAK ToolPak™ Magnetic Meter Hanger

The Fluke TPAK ToolPak™ Magnetic Meter Hanger allows you to hang your meter on nails, hooks, and pipes so you can take hands-free measurements. Always demand the best; use the original TPAK Meter hanging kit with its unique rare-earth magnet for superior gripping strength to ensure your tools don't slide or fall.

Hanging options for any jobsite

Hang your meter in a variety of ways for convenient hands-free operation, solve any hanging and positioning problems you may face. Use the hook and loop strap to wrap around a pole or pipe and hang your meter. Use the magnet to throw your meter on a panel door while you work the test leads to take a measurement quickly and safely.



Ordering information



TPAK

Kit includes:

- 9 inch hook and loop strap
- Tapered hook and loop strap
- Universal hanger clip
- Hook hanger for non magnetic surfaces
- Strong magnet



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