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# 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 10 A (20 A overload for 30 seconds)
- 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 90 %.

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 $\pm$ ([% of reading] + [counts])
DC millivolts	600.0 mV	0.1 mV	0.5 % + 2
DC volts	6.000 V	0.001 V	
	60.00 V	0.01 V	0.5 % + 2
	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 <sup>1</sup> 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	2.0 % + 3 (300 Hz to 1 Miz)
Continuity	600 Ω	1 Ω	Beeper on < 20 $\Omega$ off > 250 $\Omega$ ; detects opens or shorts of 500 $\mu$ s or longer.
Ohms	600.0 Ω	0.1Ω	0.9 % + 2
	6.000 kΩ	0.001 kΩ	
	60.00 kΩ	0.01 kΩ	0.00% + 1
	600.0 kΩ	0.1 kΩ	0.9 % + 1
	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 overload for 30 seconds max.		
DC amps	6.000 A	0.001 A	1.0 % + 3
	10.00 A	0.01 A	
	20 A overload for 30	seconds max.	
Hz (V or A input) <sup>2</sup>	99.99 Hz	0.01 Hz	0.1 % + 2
	999.9 Hz	0.1 Hz	
	9.999 kHz	0.001 kHz	
	50.00 kHz	0.01 kHz	
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#### Notes:

# Ordering information

Fluke-117 Electrician's Multimeter with Non-Contact Voltage

#### Included

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



Fluke. Keeping your world up and running.™

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<sup>&</sup>lt;sup>1</sup> All ac voltage ranges except Auto-V/LoZ are specified from 1 % to 100 % of range. Auto-V/LoZ is specified from 0.0 V. Because inputs below 1 % of range are not specified, it is normal for this and other true-rms meters to display nonzero readings when the test leads are disconnected from a circuit or are shorted together. For volts, crest factor of  $\leq 3$ 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. <sup>2</sup> Frequency is ac coupled, <sup>5</sup> Hz to <sup>5</sup>O kHz for ac voltage. Frequency is dc coupled, <sup>45</sup> Hz to <sup>5</sup> kHz for ac current.