

Fluke 117

- Non-contact voltage detection - AutoVolt automatic AC/DC voltage selection - Prevent false readings caused by ghost voltage with selectable low-impedance mode

Rating: Not Rated Yet

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Manufacturer [Fluke](#)

Description

Product overview: Fluke 117 Electrician's Multimeter with Non-Contact Voltage

Fluke 117 Digital Multimeter

The Fluke 117 Electricians Multimeter includes integrated non-contact voltage detection and Auto Volts and LoZ functions to help get the job done faster and prevent false readings caused by ghost voltage. It is a compact true-rms meter for demanding applications like commercial buildings, hospitals, and schools.

The Fluke 117 provides Min/Max/Average readings and measures frequency and capacitance. Plus, its easy-to-use interface can save you time and enable you to move from job to job more quickly.

Other useful features:

- Features true-rms capabilities for accurate measurements on non-linear loads
- Accurate, easy-to-use multimeter with integrated VoltAlert™ technology for fast, go/no go non-contact voltage detection
- Features AutoVolt automatic AC/DC voltage selection
- Provides low input impedance to help prevent false readings due to ghost voltage
- Presents a large white LED backlight for working in poorly lit areas
- Measures 10 A (20 A overload for 30-seconds)
- Measures resistance, continuity, frequency, and capacitance
- Provides Min/Max/Average to record signal fluctuations
- Comes with an holster with probe holders for easy storage
- Fits into optional ToolPak™ magnetic hanger for hands-free operation
- CAT III 600 V safety rated
- A large white LED backlight to improve measurement visibility in poorly lit areas

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

Specifications

Maximum voltage between any terminal and earth ground	600 V
Surge protection	6 kV peak per IEC 61010–1 600 VCAT III, Pollution Degree 2
Fuse for A input	11 A, 1000 V FAST Fuse (Fluke PN 803293)
Display	Digital: 6,000 counts, updates 4 per second
Bar graph	33 segments, updates 32 per second
Operating temperature	-10°C to +50°C
Storage temperature	-40°C to +60°C
Battery type	9 volt Alkaline, NEDA 1604A / IEC 6LR61
Battery life	400 hours typical, without backlight
Accuracy Specifications	
DC millivolts	Range/resolution 600.0 mV / 0.1 mV Accuracy ±([% of reading] + [counts]): 0.5% + 2
DC volts	Range/resolution 6.000 V / 0.001 V 60.00 V / 0.01 V 600.00 V / 0.1 V Accuracy ±([% of reading] + [counts]): 0.5% + 2
Auto volts	Range/resolution 600.0 V / 0.1 V Accuracy 2.0% + 3 (DC, 45 Hz to 500 Hz) 4.0% + 3 (500 Hz to 1 kHz)
AC millivolts ¹ True RMS	Range/resolution 600.0 mV / 0.1 mV Accuracy 1.0% + 3 (DC, 45 Hz to 500 Hz) 2.0% + 3 (500 Hz to 1 kHz)
AC volts ¹ True RMS	Range/resolution 6.000 V / 0.001 V 60.00 V / 0.01 V 600.0 V / 0.1 V Accuracy 1.0% + 3 (DC, 45 Hz to 500 Hz) 2.0% + 3 (500 Hz to 1 kHz)
Continuity	Range/resolution 600 ? / 1 ? Accuracy Beeper on < 20 ?, off > 250 ? detects opens or shorts of 500 ?s or longer.
Ohms	Range/resolution 600.0 ? / 0.1 ? 6.000 k? / 0.001 k? 60.00 k? / 0.01 k? 600.0 k? / 0.1 k? 6.000 M? / 0.001 M? Accuracy 0.9% + 1 Range/resolution 40.00 M? / 0.01 M? Accuracy 5% + 2
Diode test	Range/resolution 2.00 V / 0.001 V Accuracy 0.9% + 2
Capacitance	Range/resolution 1000 nF / 1 nF 10.00 ?F / 0.01 ?F 100.0 ?F / 0.1 ?F 9999 ?F / 1 ?F 100 ?F to 1000 ?F Accuracy 1.9% + 2 Range/resolution > 1000 ?F Accuracy 5% + 20%
Lo-Z capacitance	Range 1 nF to 500 ?F Accuracy 10% + 2 typical
AC amps True RMS (45 Hz to 500 Hz)	Range/resolution 6.000 A / 0.001 A 10.00 A / 0.01 A Accuracy 1.5% + 3 20 A continuous overload for 30 seconds max
DC amps	Range/resolution 6.000 A / 0.001 A 10.00 A / 0.01 A Accuracy 1.0% + 3 20 A continuous overload for 30 seconds max
Hz (V or A input) ²	Range/resolution 99.99 Hz / 0.01 Hz 999.9 Hz / 0.1 Hz 9.999 kHz / 0.001 Hz 50.00 kHz / 0.01 Hz Accuracy 0.1% + 2

1. 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.

2. Temperature uncertainty (accuracy) does not include the error of the thermocouple probe.

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.
2. Temperature Range/Resolution: -40°F to 752°F / 0.2°F.

Mechanical and General Specifications

Size	167 x 84 x 46 mm (6.57 x 3.31 x 1.82 in)
Weight	550 g