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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ManufacturerFluke

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