

Fluke 87V

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

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 Ω / 1 Ω
	Accuracy	Beeper on < 20 Ω , off > 250 Ω detects opens or shorts of 500 Ω s or longer.
Ohms	Range/resolution	600.0 Ω / 0.1 Ω
		6.000 k Ω / 0.001 k Ω
		60.00 k Ω / 0.01 k Ω
		600.0 k Ω / 0.1 k Ω
		6.000 M Ω / 0.001 M Ω
	Accuracy	0.9% + 1
	Range/resolution	40.00 M Ω / 0.01 M Ω
Diode test	Accuracy	5% + 2
	Range/resolution	2.00 V / 0.001 V
	Accuracy	0.9% + 2
Capacitance	Range/resolution	1000 nF / 1 nF
		10.00 μ F / 0.01 μ F
		100.0 μ F / 0.1 μ F
		9999 μ F / 1 μ F
		100 μ F to 1000 μ F
	Accuracy	1.9% + 2
	Range/resolution	> 1000 μ F
Lo-Z capacitance	Accuracy	5% + 20%
	Range	1 nF to 500 μ 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
Warranty	3 years