

Fluke 117/323 Electricians Multimeter Combo Kit

Combine the power of Fluke's 117 Electrician's Multimeter with a Fluke 323 clamp meter for productive and effective troubleshooting.



Having the right tool for the job is essential. Having all the right tools when you need them is even better. The Fluke 117/323 Electricians Multimeter Combo Kit gives you the best in a versatile, rugged multimeter and a fast-acting, general purpose clamp meter.

The Fluke 117 provides non-contact voltage detection, an AutoV/LoZ function, Min/Max/Average readings, plus frequency and capacitance measurements. It's easy to use and saves you time.

Electrical meters need to handle whatever comes up on the job. That's why the Fluke 117 Electrician's Multimeter is certified for use in CAT III 600 V environments.

True RMS measurements and optimized ergonomics make the Fluke 323 True RMS Clamp Meter the best general purpose clamp meter for commercial and residential electricians. The Fluke 323 model is ideally suited for current measurements up to 400 A in tight cable compartments.

Together, the Fluke 117 Electricians Multimeter and 323 True-rms Clamp Meter give electricians the right tools for the job.

Fluke 117 Electrician's Multimeter

- Fast go/no-go testing with VoltAlert™ non-contact voltage detection
- AutoVolt automatic AC/DC voltage selection
- Low input impedance helps prevent false readings due to ghost voltage
- Work in poorly lit areas with the Large white LED backlit display
- True RMS voltage and current for accurate measurements on non-linear loads
- Measures 10 A directly (20 A overload for 30-seconds) without a current clamp

- Resistance, continuity, frequency and capacitance
- Record signal fluctuations using Min/Max/Average and elapsed time stamps
- Easy to use with one hand
- Hands free operation with optional magnetic hanger (ToolPak™)
- CAT III 600 V safety rated

Fluke 323 True-rms Clamp Meter

- 400 A AC current measurement
- 600 VAC and DC voltage measurement
- True RMS AC voltage and current for accurate measurements on non-linear signals
- Resistance measurement up to 40 kΩ with continuity detection

Fluke 117 Digital Multimeter

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

Auto volts	Accuracy	$\pm([\% \text{ of reading}] + [\text{counts}]): 0.5\% + 2$
	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 μ 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
	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 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

Lo-Z capacitance	Range/Resolution	> 1000 µF
	Accuracy	5% + 20%
	Range	1 nF to 500 µF
	Accuracy	10% + 2 typical
AC amps True RMS (45 Hz to 500 Hz)	Range/Resolution	6.000 A / 0.1 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 / 0.1 A10.00 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 999.99 Hz / 0.1 Hz 9.999 Hz / 0.001 Hz 50.00 Hz / 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. • Frequency is AC coupled, 5 Hz to 50 kHz for AC voltage. Frequency is DC coupled, 45 Hz to 5 kHz for AC current. • 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	

Fluke 323 True RMS Clamp Meter

Specifications

AC current	Range	400.0 A
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	Accuracy	2% ±5 digits
		(45 Hz to 65 Hz)
		2.5% ±5 digits
		(65 Hz to 400 Hz)
AC voltage	Range	600.0 V
	Accuracy	1.5% ±5 digits
DC voltage	Range	600.0 V
	Accuracy	1.0% ±5 digits
Resistance	Range/Resolution	400.0 Ω/ 4000 Ω
	Accuracy	1.0% ±5 digits
Continuity	≤ 70 Ω	
AC response	True RMS	
Data hold	Yes	
Size	H x W x D (mm)	207 x 75 x 34
	Max wire diameter	30 mm (600 MCM)
	Weight	265 g
Category rating	CAT III 600 V	
	CAT IV 300 V	