

TECHNICAL DATA

Fluke 117 and 323 Electrician's Multimeter Combo Kit



Key features

Fluke 117 Digital Multimeter. Designed by Electricians. Engineered by Fluke.

- VoltAlert™ technology for non-contact voltage detection.
- AutoVolt automatic ac/dc voltage selection.
- Low input impedance: 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.
- Compact ergonomic design for one-handed operation.
- CAT III 600 V safety rated.

Fluke 323 True-rms Clamp Meter. Rugged. Reliable. Precise.

- 400 A ac current measurement.
- 600 V ac and dc voltage measurement.
- True-rms ac voltage and current for accurate measurements on non-linear signals.
- Resistance measurement up to 40 k Ω with continuity detection.
- Slim, ergonomic design.
- CAT IV 300V/CAT III 600 V safety rating.

Product overview: Fluke 117 and 323 Electrician's Multimeter Combo Kit

This combo kit pairs the Fluke 117 DMM with a Fluke 323 clamp meter for productive and effective troubleshooting in one total solution, including the C115 durable soft carrying case for protection and easy meter transportation.

Specifications: Fluke 117 and 323 Electrician's Multimeter Combo Kit

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 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 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 μs or longer.
Ohms	Range/Resolution	600.0 Ω / 0.1 Ω 6.000 kΩ / 0.001 kΩ 60.00 kΩ / 0.01 kΩ 600.0 kΩ / 0.1 kΩ 6.000 MΩ / 0.001 MΩ
	Accuracy	0.9% + 1
	Range/Resolution	40.00 MΩ / 0.01 MΩ
	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
	Range/Resolution	> 1000 μ F
	Accuracy	5% + 20%
Lo-Z capacitance	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 / 0.1 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 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 999.99 Hz / 0.1 Hz 9.999 Hz / 0.001 Hz 50.00 Hz / 0.01 Hz
	Accuracy	0.1% + 2

- 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.
- 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
	Accuracy	2% \pm 5 digits (45 Hz to 65 Hz) 2.5% \pm 5 digits (65 Hz to 400 Hz)
AC voltage	Range	600.0 V
	Accuracy	1.5% \pm 5 digits
DC voltage	Range	600.0 V
	Accuracy	1.0% \pm 5 digits

Resistance	Range/Resolution	400.0 Ω / 4000 Ω
	Accuracy	1.0% \pm 5 digits
Continuity	\leq 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	
Warranty	Two-year	

Ordering information

FLUKE®**Fluke 117/323 Kit**Fluke 117/323 Electricians Multimeter Combo Kit

Includes:

- Fluke 117 Digital Multimeter
 - Fluke 323 True RMS Clamp Meter
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