



## Fluke 117/323 Electricians Multimeter Combo Kit

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### 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	600.0 mV
	Resolution	0.1 mV
	Accuracy	± (% of reading) + [counts]: 0.5% + 2
DC volts	Range/Resolution	6.000 V / 0.001 V
	Range/Resolution	60.00 V / 0.01 V
	Range/Resolution	600.00 V / 0.1 V
	Accuracy	± (% of reading) + [counts]: 0.5% + 2
Auto volts	Range	600.0 V
	Resolution	0.1 V
	Accuracy	2.0 % + 3 (dc, 45 Hz to 500 Hz) 4.0 % + 3 (500 Hz to 1 kHz)
AC millivolts <sup>1</sup> true-rms	Range	600.0 mV
	Resolution	0.1 mV
	Accuracy	1.0 % + 3 (dc, 45 Hz to 500 Hz) 2.0 % + 3 (500 Hz to 1 kHz)
AC volts <sup>1</sup> true-rms	Range/Resolution	6.000 V / 0.001 V
	Range/Resolution	60.00 V / 0.01 V
	Range/Resolution	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	600 Ω
	Resolution	1 Ω
	Accuracy	Beeper on < 20 Ω, off > 250 Ω; detects opens or

		shorts of 500 $\mu$ s or longer.
<b>Ohms</b>	Range/Resolution	600.0 $\Omega$ / 0.1 $\Omega$
	Range/Resolution	6.000 k $\Omega$ / 0.001 k $\Omega$
	Range/Resolution	60.00 k $\Omega$ / 0.01 k $\Omega$
	Range/Resolution	600.0 k $\Omega$ / 0.1 k $\Omega$
	Range/Resolution	6.000 M $\Omega$ / 0.001 M $\Omega$
	Accuracy	0.9 % + 1
	Range/Resolution	40.00 M $\Omega$ / 0.01 M $\Omega$
	Accuracy	5 % + 2
<b>Diode Test</b>	Range/Resolution	2.000 V / 0.001 V
	Accuracy	0.9% + 2
<b>Capacitance</b>	Range/Resolution	1000 nF / 1 nF
	Range/Resolution	10.00 $\mu$ F / 0.01 $\mu$ F
	Range/Resolution	100.0 $\mu$ F / 0.1 $\mu$ F
	Range/Resolution	9999 $\mu$ F / 1 $\mu$ F
	Range/Resolution	100 $\mu$ F to 1000 $\mu$ F
	Accuracy	1.9% + 2
	Range/Resolution	> 1000 $\mu$ F
	Accuracy	5% + 20%
<b>Lo Z capacitance</b>	Range	1 nF to 500 $\mu$ F
	Accuracy	10% + 2 typical
<b>AC amps true-rms (45 Hz to 500 Hz)</b>	Range/Resolution	6.000 A / 0.001 A
	Range/Resolution	10.00 A / 0.01 A
	Accuracy	1.5% + 3 20 A continuous overload for 30 seconds max
<b>DC amps</b>	Range/Resolution	6.000 A / 0.001 A
	Range/Resolution	10.00 A / 0.01 A
	Accuracy	1.0% + 3 20 A continuous overload for 30 seconds max
<b>Hz (V or A input)<sup>2</sup></b>	Range/Resolution	99.99 Hz / 0.01 Hz
	Range/Resolution	999.99 Hz / 0.1 Hz
	Range/Resolution	9.999 Hz / 0.001 Hz
	Range/Resolution	50.00 Hz / 0.01 Hz
	Accuracy	0.1% + 2

**Notes:**

- 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.
- 3) Frequency is ac coupled, 5 Hz to 50 kHz for ac voltage. Frequency is dc coupled, 45 Hz to 5 kHz for ac current.
- 4) Temperature Range/Resolution: -40 °F to 752 °F / 0.2 °F

<b>Mechanical &amp; General Specifications</b>	
<b>Size</b>	167 x 84 x 46 mm (6.57" x 3.31" x 1.82")
<b>Weight</b>	550 g
<b>Warranty</b>	3 years

**Fluke 323 True-rms Clamp Meter**

<b>Specifications</b>		
<b>AC current</b>	Range	400.0 A
	Accuracy	2 % $\pm$ 5 digits (45 Hz to 65 Hz) 2.5 % $\pm$ 5 digits (65 Hz to 400 Hz)
<b>AC voltage</b>	Range	600.0 V
	Accuracy	1.5 % $\pm$ 5 digits
<b>DC voltage</b>	Range	600.0 V
	Accuracy	1.0 % $\pm$ 5 digits
<b>Resistance</b>	Range	400.0 $\Omega$ / 4000 $\Omega$
	Accuracy	1.0 % $\pm$ 5 digits
<b>Continuity</b>		$\leq$ 70 $\Omega$
<b>AC response</b>		True-rms
<b>Data hold</b>		Yes
<b>Size</b>	H x W x D (mm)	207 x 75 x 34
	Max wire diameter	30 mm (600 MCM)
	Weight	265 g

<b>Category rating</b>	CAT III 600 V CAT IV 300 V
<b>Warranty</b>	Two-year