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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 ¹ 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 ¹ 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 μ s or longer.
Ohms	Range/Resolution	600.0 Ω / 0.1 Ω
	Range/Resolution	6.000 k Ω / 0.001 k Ω
	Range/Resolution	60.00 k Ω / 0.01 k Ω
	Range/Resolution	600.0 k Ω / 0.1 k Ω
	Range/Resolution	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	2.000 V / 0.001 V
	Accuracy	0.9% + 2
Capacitance	Range/Resolution	1000 nF / 1 nF
	Range/Resolution	10.00 μ F / 0.01 μ F
	Range/Resolution	100.0 μ F / 0.1 μ F
	Range/Resolution	9999 μ F / 1 μ F
	Range/Resolution	100 μ F to 1000 μ F
	Accuracy	1.9% + 2
	Range/Resolution	> 1000 μ F
	Accuracy	5% + 20%
LoZ 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 / 0.001 A
	Range/Resolution	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
	Range/Resolution	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
	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

Mechanical & General Specifications	
Size	167 x 84 x 46 mm (6.57" x 3.31" x 1.82")
Weight	550 g
Warranty	3 years

Fluke 323 True-rms Clamp Meter

Specifications		
AC current	Range	400.0 A
	Accuracy	2 % ± 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	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