

TECHNICAL DATA

Fluke 110 True-rms Digital Multimeter



Key features

- True-rms ac voltage for accurate measurements on non-linear signals
- Resistance and continuity
- Large white LED backlight to work in poorly lit areas

Product overview: Fluke 110 True-rms Digital Multimeter

Compact true-rms meter for accurate electrical installation and troubleshooting

The Fluke 110 is a versatile multimeter for electrical measurements and troubleshooting. Trusted by residential and commercial electricians for troubleshooting and maintenance. The 110 is for professional use, where true-rms accuracy is needed.

Key product capabilities

- True-rms ac voltage for accurate measurements on non-linear signals
- Large white LED backlight to work in poorly lit areas
- Resistance and continuity
- Min/Max/Average to record signal fluctuations

- CAT III 600 V safety rated

Specifications: Fluke 110 True-rms Digital Multimeter

Accuracy is specified for 1 year after calibration, at operating temperatures of 18 °C to 28 °C, with relative humidity at 0 % to 90 %. The accuracy specifications take the form of: $\pm$ ([% of Reading] + [Counts])

General specifications			
Maximum voltage (between any terminal and earth ground)			600V
Safety			IEC 61010-1, Pollution degree 2 IEC 61010-2-033, CAT III 600 V
Display			Digital: 6,000 counts, updates 4/sec
Bar graph			33 segments, updates 32/sec
Temperature Operating Storage			-10 °C to + 50 °C -40 °C to + 60 °C
Battery			9 volt Alkaline, IEC 6LR61
Battery life			400 hours typical, without backlight
Accuracy			
Measurement	Range	Resolution	Accuracy ± ([% of reading] + [counts])
DC millivolts	600.0 mV	0.1 mV	0.5 % + 2
DC volts	6.000 V 60.00 V 600.0 V	0.001 V 0.01 V 0.1 V	0.5 % + 2
Accuracy			
Measurement	Range	Resolution	Accuracy ± ([% of reading] + [counts])
AC millivolts1 true-rms	600.0 mV	0.1 mV	1.0 % + 3 (dc, 45 Hz to 500 Hz) 2.0 % + 3 (500 Hz to 1 kHz)
AC volts1 true-rms	6.000 V 60.00 V 600.0 V	0.001 V 0.01 V 0.1 V	1.0 % + 3 (dc, 45 Hz to 500 Hz) 2.0 % + 3 (500 Hz to 1 kHz)
Continuity	600 Ω	1 Ω	Beeper on < 20 Ω, off> 250 Ω; detects opens or shorts of 500 μs or longer.
Ohms	600.0 Ω	0.1 Ω	0.9 % + 2
	6.000 kΩ 60.00 kΩ 600.0 kΩ 6.000 MΩ	0.001 kΩ 0.01 kΩ 0.1 kΩ 0.001 MΩ	0.9 % + 1
	40.00 MΩ	0.01 MΩ	5 % + 2

¹All ac voltage ranges are specified from 1 % to 100% of range. Because inputs below 1 % of range are not specified, it is normal for this and other true-rms meters to display non-zero readings when the test leads are disconnected from a circuit or are shorted together. For volts, crest factor of ≤ 3 at 4000 counts, decreasing linearly to 1.5 at full scale. AC volts is ac-coupled.

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