

Fluke 114 Electrical Multimeter

Technical Data





Compact true-rms meter for electrical troubleshooting

The Fluke 114 is the troubleshooting tool for "go/no-go" testing. It includes a feature to prevent false readings caused by ghost voltage.

Features include:

- AutoVolt: automatic ac/dc voltage selection
- 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

General specifications

Accuracy is specified for 1 year after calibration, at operating temperatures of 18 °C to 28 °C, with relative humidity at 0 % to 95 %.

The accuracy specifications take the form of: \pm ([% of Reading] + [Counts])

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
Display	Digital: 6,000 counts, updates 4/sec
Bar graph	33 segments, updates 32/sec
Operating temperature	-10 °C to $+50$ °C
Storage temperature	-40 °C to + 60 °C
Battery	9 volt Alkaline, NEDA 1604A/ IEC 6LR61
Battery life	400 hours typical, without backlight



Accuracy specifications

Measurement	Range	Resolution	Accuracy ± ([% of reading] + [counts])
DC millivolts	600.0 mV	0.1 mV	2.0 % + 3
DC volts	6.000 V	0.001 V	
	60.00 V	0.01 V	
	600.0 V	0.1 V	
Auto volts	600.0 V	0.1 V	2.0 % + 3 (dc, 45 Hz to 500 Hz) 4.0 % + 3 (500 Hz to 1 kHz)
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	0.001 V	
	60.00 V	0.01 V	1.0 % + 3 (dc, 45 Hz to 500 Hz) 2.0 % + 3 (500 Hz to 1 kHz)
	600.0 V	0.1 V	2.0 % + 5 (500 112 to 1 k112)
Continuity	600 W	1 W	Beeper on < 20 W, off > 250 W; detects opens or shorts of 500 µs or longer.
Ohms	600.0 W	0.1 W	0.9 % + 2
	6.000 kW	0.001 kW	
	60.00 kW	0.01 kW	0.9 % + 1
	600.0 kW	0.1 kW	
	6.000 MW	0.001 MW	
	40.00 MW	0.01 MW	1.5 % + 2

Notes: ¹ All 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. Auto-V LoZ, and ac mV are dc-coupled. ² Frequency is ac coupled, 5 Hz to 50 kHz for ac voltage.

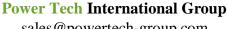
Ordering Information

Fluke-114 Electrical Multimeter Included

TL75 Test leads, holster, User's manual and 9 V battery (installed).



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