

TECHNICAL DATA

# Fluke 114 Electrical Multimeter



## 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

- 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

**SAFETY RATING**  
CAT III 600 V

**BUILT TO LAST**  
Three-year warranty

**IDEAL FOR ELECTRICIANS AND CONTRACTORS**

- Simple one-handed operation
- Automatic ac/dc voltage selection
- Holster with probe holders for easy test lead storage
- Large white LED backlit displaywarranty

## Specifications

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)	600 V		
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		
Operating temperature	-10 °C to + 50 °C		
Storage temperature	-40 °C to + 60 °C		
Battery	9 volt Alkaline, IEC 6LR61		
Battery life	400 hours typical, without backlight		
Accuracy specifications			
Measurement	Range	Resolution	Accuracy $\pm$ ([% 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
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 millivolts <sup>1</sup> true-rms	600.0 V	0.1 V	1.0 % + 3 (dc, 45 Hz to 500 Hz) 2.0 % + 3 (500 Hz to 1 kHz)
AC volts <sup>1</sup> true-rms	6.000 V 60.00 V 600.0 V	0.001 V 0.01 V 0.1 V	1.0 % + 3 (45 Hz to 500 Hz) 2.0 % + 3 (500 Hz to 1 kHz)
Continuity	600 $\Omega$	1 $\Omega$	Beeper on < 20 $\Omega$ off > 250 $\Omega$ ; detects opens or shorts of 500 $\mu$ s or longer.
Ohms	600.0 $\Omega$ 6.000 k $\Omega$ 60.00 k $\Omega$ 600.0 k $\Omega$ 6.000 M $\Omega$ 40.00 M $\Omega$	0.1 $\Omega$ 0.001 k $\Omega$ 0.01 k $\Omega$ 0.1 k $\Omega$ 0.001 M $\Omega$ 0.01 M $\Omega$	0.9 % + 2 0.9 % + 1 0.9 % + 1 0.9 % + 1 0.9 % + 1 1.5 % + 2

<sup>1</sup> 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. 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  $\leq 3$  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.

## Ordering information

Fluke-114 Electrical Multimeter

### Included

TL75 Test Leads

Holster

User's manual

9 V battery (installed)