

# Fluke 114 Electrical Multimeter

#### **Technical Data**



#### **Actual size**















## 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 90 %.

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	<b>Accuracy</b> $\pm$ ([% of reading] + [counts])
DC millivolts	600.0 mV	0.1 mV	0.5 % + 2
DC volts	6.000 V	0.001 V	0.5 % + 2
	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 volts <sup>1</sup> true-rms	6.000 V	0.001 V	1.0 % + 3 (dc, 45 Hz to 500 Hz) 2.0 % + 3 (500 Hz to 1 kHz)
	60.00 V	0.01 V	
	600.0 V	0.1 V	
Continuity	600 Ω	1 Ω	Beeper on < 20 $\Omega$ , off > 250 $\Omega$ ; detects opens or shorts of 500 $\mu s$ or longer.
Ohms	600.0 Ω	0.1 Ω	0.9 % + 2
	6.000 kΩ 0.001 kΩ	0.001 kΩ	0.9 % + 1
	60.00 kΩ	0.01 kΩ	
	600.0 kΩ	0.1 kΩ	
	6.000 MΩ	0.001 ΜΩ	
	40.00 MΩ	0.01 ΜΩ	1.5 % + 2

#### Notes:

#### **Ordering Information**

Fluke-114 Electrical Multimeter Included

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



Fluke. Keeping your world up and running.™

2 Fluke Corporation 114 Electrical Multimeter

Specifications subject to change without notice. Printed in U.S.A.  $10/2006\ 2634055\ D\text{-EN-N}$  Rev B



<sup>&</sup>lt;sup>1</sup> 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.