

# **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  $^{\circ}\text{C}$  to 28  $^{\circ}\text{C}$ , with relative humidity at 0 % to 90 %.

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

| Maximum voltage between any terminal and earth ground | 600 V  |  |
|---|--|--|
| Surge protection                                      | 6 kV peak per IEC 61010-1 600 V<br>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/<br>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     | 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)<br>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)<br>2.0 % + 3 (500 Hz to 1 kHz)                                       |
| AC volts1 true-rms      | 6.000 V  | 0.001 V    | 1.0 % + 3 (dc, 45 Hz to 500 Hz)<br>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   | 0.9 % + 1  |
|                         | 60.00 kΩ | 0.01 kΩ    |  |
|                         | 600.0 kΩ | 0.1 kΩ     |  |
|                         | 6.000 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).



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Specifications subject to change without notice. Printed in U.S.A. 10/2006 2634055 D-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.