

**FLUKE®**

# 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 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 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                        |

Actual size



## 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          | 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 millivolts <sup>1</sup> 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 volts <sup>1</sup> 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 $\Omega$     | 1 $\Omega$       | Beeper on < 20 $\Omega$ , off > 250 $\Omega$ ; detects opens or shorts of 500 $\mu$ s or longer. |
| Ohms                                | 600.0 $\Omega$   | 0.1 $\Omega$     | 0.9 % + 2  |
|                                     | 6.000 k $\Omega$ | 0.001 k $\Omega$ | 0.9 % + 1  |
|                                     | 60.00 k $\Omega$ | 0.01 k $\Omega$  |  |
|                                     | 600.0 k $\Omega$ | 0.1 k $\Omega$   |  |
|                                     | 6.000 M $\Omega$ | 0.001 M $\Omega$ |  |
|                                     | 40.00 M $\Omega$ | 0.01 M $\Omega$  | 1.5 % + 2  |

### Notes:

<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  $\leq 3$  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 and 9 V battery (installed).



**Fluke.** Keeping your world up and running.™

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