

TECHNICAL DATA

# Fluke 110 True-rms Multimeter



## Compact true-rms meter for accurate electrical installation and troubleshooting

The Fluke 110 is a versatile multimeter for electrical measurements and troubleshooting. Trusted by residential and commercial electricians for troubleshooting and maintenance. The 110 is for professional use, where true-rms accuracy is needed.

### Features include

- True-rms ac voltage for accurate measurements on non-linear signals
- 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

**WARRANTY**  
3 years

**PROFESSIONAL, ACCURATE,  
EASY-TO-USE**

The 110 is a great fit for all your essential electrical measurements.

- Ideal meter for go/no-go troubleshooting
- Features a compact ergonomic design for one-handed operation
- Comes with an holster with probe holders for easy storage
- Features manual and automatic ranging
- Fits into optional ToolPak™ magnetic hanger for hands-free operation



## 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 ] )

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		
Temperature			
Operating	-10 °C to + 50 °C		
Storage	-40 °C to + 60 °C		
Battery	9 volt Alkaline, IEC 6LR61		
Battery life	400 hours typical, without backlight		
Accuracy			
Measurement	Range	Resolution	Accuracy ± ([% 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
AC millivolts <sup>1</sup> 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 60.00 V 600.0 V	0.001 V 0.01 V 0.1 V	1.0 % + 3 (dc, 45 Hz to 500 Hz) 2.0 % + 3 (500 Hz to 1 kHz)
Continuity	600 Ω	1 Ω	Beeper on < 20 Ω, off > 250 Ω; detects opens or shorts of 500 μs or longer.
Ohms	600.0 Ω 6.000 kΩ 60.00 kΩ 600.0 kΩ 6.000 MΩ 40.00 MΩ	0.1 Ω 0.001 kΩ 0.01 kΩ 0.1 kΩ 0.001 MΩ 0.01 MΩ	0.9 % + 1    5 % + 2

<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.

## Ordering information

**FLUKE-110** Electrical Multimeter

### Included

TL75 Hard Point™ Test Lead Set, and 9 V battery (installed).

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

**Fluke Corporation**  
PO Box 9090, Everett, WA 98206 U.S.A.

**Fluke Europe B.V.**  
PO Box 1186, 5602 BD  
Eindhoven, The Netherlands

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### For more information:

Fluke Australia  
Unit 16/7 Anella Avenue  
Castle Hill, NSW, 2154  
Australia

Phone: 1300 1 FLUKE (35853)  
Fax: +61 2 8850 3300  
Email: [auinfo@fluke.com](mailto:auinfo@fluke.com)  
Website: [www.fluke.com.au](http://www.fluke.com.au)

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