

TECHNICAL DATA

# Fluke 106 Palm-sized, CAT III Digital Multimeter



**SIZE (H X W X L)**  
**142 mm x 69 mm x 28mm**

**WARRANTY**  
**2-year**

**FLUKE 106 COMPLETE TEST FUNCTIONS**

- Including AC and DC voltage measurement
- AC and DC current measurement
- Resistance measurement
- Capacitance measurement

**Professional measurements in the palm of your hand**

The Fluke 106 is a compact, easy-to-use multimeter made to fit the way you work. It is the perfect first-pass troubleshooting tool: small enough to fit in a shirt pocket or work bag, tough enough to withstand daily use, and extremely simple to use. All without compromising safety. For everyday applications, where true-rms accuracy isn't needed, the Fluke 106 delivers reliable measurements time after time.

**Product highlights**

- AC/DC voltage to 600 V
- AC/DC current to 10 A
- Resistance and Continuity to check for broken wires
- Data hold to keep you working safe and fast

**Electrical specifications**

Accuracy is specified for 1 year after calibration, at operating temperatures of 18 °C to 28 °C, relative humidity at 0% to 75%. Accuracy specifications take the form of: ±[(% of Reading) + (Number of Least Significant Digits)]

Function	Range	Resolution	Accuracy
AC volts (40 Hz to 500 Hz) <sup>1</sup>	6.000 V	0.001 V	1.0 % + 3
	60.00 V	0.01 V	
	600.0 V	0.1 V	
DC volts	6.000 V	0.001 V	0.5 % + 3
	60.00 V	0.01 V	
	600.0 V	0.1 V	
AC millivolts	600.0 mV	0.1 mV	3.0 % + 3
Resistance (ohms)	400.0 Ω	0.1 Ω	0.5 % + 3
	4.000 kΩ	0.001 kΩ	0.5 % + 2
	40.00 kΩ	0.01 kΩ	0.5 % + 2
	400.0 kΩ	0.1 kΩ	0.5 % + 2
	4.000 MΩ	0.001 MΩ	0.5 % + 2
Capacitance <sup>2</sup>	40.00 MΩ	0.01 MΩ	1.5 % + 3
	50.00 nF	0.01 nF	2 % + 5
	500.0 nF	0.1 nF	2 % + 5
	5.000 μF	0.001 μF	5 % + 5
	50.00 μF	0.01 μF	5 % + 5
AC current (40 Hz to 200 Hz)	500.0 μF	0.1 μF	5 % + 5
	1000 μF	1 μF	5 % + 5
DC current	4.000 A	0.001 A	1.5 % + 3
	10.00 A	0.01 A	

<sup>1</sup> All AC are specified from 1 % to 100 % of range. Inputs below 1 % of range are not specified.

<sup>2</sup> Specifications do not include errors due to test lead capacitance and capacitance floor (may be up to 1.5 nF in the 50 nF range).

# Specifications continued

Electrical specifications				
Function	Overload protection	Input impedance (nominal)	Common mode rejection ratio	Normal mode rejection ratio
AC volts	600 V <sup>1</sup>	> 10 MΩ < 100 pF <sup>2</sup>	> 60 dB at dc, 50 Hz or 60 Hz	—
AC millivolts	600 mV	>1M <100 pF	> 80 dB at 50 Hz or 60 Hz	—
DC volts	600 V <sup>2</sup>	> 10 MΩ < 100 pF	> 100 dB at dc, 50 Hz or 60 Hz	> 45 dB at 50 Hz or 60 Hz

<sup>1</sup> 6 x 105 V Hz Max

<sup>2</sup> For mV (AC), input impedance is approximately 1 MΩ.

General specifications	
Maximum voltage between any terminal and earth ground	600 V
Display (LCD)	6000 counts, updates 3/sec
Battery type	2 AAA, IEC LR03
Battery life	200 hours minimum
Temperature	Operating: 0 °C to 40 °C Storage: -30 °C to 60 °C
Relative humidity	Operating Humidity: Non-condensing when < 10°C ≤ 90 % at 10 °C to 30 °C; ≤ 75 % at 30 °C to 40 °C  Operating Humidity, 40 MΩ Range: ≤ 80 % at 10 °C to 30 °C; ≤ 70 % at 30 °C to 40 °C
Altitude	Operating: 2000 m Storage: 12,000 m
Temperature coefficient	0.1 X (specified accuracy)/°C (< 18 °C or > 28 °C)
Fuse protection for current inputs	11 A, 1000 V Fast Fuse, Fluke specified part only
Size (HxWxL)	142 mm x 69 mm x 28mm
Weight	200 g
IP rating	IEC 60529: IP 40
Safety	IEC 61010-1: Pollution Degree 2 IEC 61010-2-033: CAT III 600V, 10 A
Electromagnetic environment	IEC 61326-1: portable
Electromagnetic compatibility	Applies to use the Korea only. Class A Equipment (Industrial broadcasting and communication equipment) <sup>1</sup>
Warranty	Two years

<sup>1</sup> This product meets requirements for industrial (Class A) electromagnetic wave equipment and seller or user should take notice of it. This equipment is intended for use in business environments and is not to be used in home.

## Ordering information

FLUKE-106 Palm-sized, CAT III Digital Multimeter

### Included equipment

TL75 Hard Point™ Test Lead Set  
Two AAA Batteries (installed)

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<sup>2</sup> Fluke Corporation, Fluke 106 Palm-sized Digital Multimeter. But measurements in the palm of your hand.