

TECHNICAL DATA

Fluke 107 Palm-sized, CAT III Digital Multimeter



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

WARRANTY
2-year

FLUKE 107 COMPLETE TEST FUNCTIONS

- Including AC and DC voltage measurement
- AC and DC current measurement
- Resistance measurement
- Capacitance measurement
- Diode measurement
- Frequency and duty cycle test and other functions to meet basic electrical maintenance, electrical measurement, and electronic measurement applications

Professional measurements in the palm of your hand

The Fluke 107 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 107 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 and backlit display 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: \pm ([% of Reading] + [Number of Least Significant Digits])

Function	Range	Resolution	Accuracy
AC volts (40 Hz to 500 Hz) ¹	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
Diode test ²	2.000 V	0.001 V	10 %
Resistance (ohms)	400.0 Ω	0.1 Ω	0.5 % + 3
	4.000 k Ω	0.001 k Ω	0.5 % + 2
	40.00 k Ω	0.01 k Ω	0.5 % + 2
	400.0 k Ω	0.1 k Ω	0.5 % + 2
	4.000 M Ω	0.001 M Ω	0.5 % + 2
	40.00 M Ω	0.01 M Ω	1.5 % + 3
Capacitance ³	50.00 nF	0.01 nF	2 % + 5
	500.0 nF	0.1 nF	2 % + 5
	5.000 μ F	0.001 μ F	5 % + 5
	50.00 μ F	0.01 μ F	5 % + 5
	500.0 μ F	0.1 μ F	5 % + 5
	1000 μ F	1 μ F	5 % + 5
Frequency ⁴ (10 Hz to 100 kHz)	50.00 Hz	0.01 Hz	0.1 % + 3
	500.0 Hz	0.1 Hz	
	5.000 kHz	0.001 kHz	
	50.00 kHz	0.01 kHz	
	100.0 kHz	0.1 kHz	
Duty cycle ⁴	0.1 % to 99.9 %	0.1 %	1 % typical ⁵
AC current (40 Hz to 200 Hz)	4.000 A	0.001 A	1.5 % + 3
	10.00 A	0.01 A	
DC current	4.000 A	0.001 A	1.5 % + 3
	10.00 A	0.01 A	
Backlight	—	—	Yes

¹ All AC, Hz, and duty cycle are specified from 1 % to 100 % of range. Inputs below 1 % of range are not specified.

² Typically, open circuit test voltage is 2.0 V and short circuit current is < 0.6 mA.

³ 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).

⁴ All AC, Hz, and duty cycle are specified from 1 % to 100 % of range. Inputs below 1 % of range are not specified.

⁵ Typical means when the frequency is at 50 Hz or 60 Hz and the duty cycle is between 10 % and 90 %.

Specifications continued

Electrical specifications

Function	Overload protection	Input impedance (nominal)	Common mode rejection ratio	Normal mode rejection ratio
AC volts	600 V ¹	> 10 MΩ < 100 pF ²	> 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 ²	> 10 MΩ < 100 pF	> 100 dB at dc, 50 Hz or 60 Hz	> 45 dB at 50 Hz or 60 Hz

¹ 6 x 105 V Hz Max

² 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 IEC 61326-1: portable
Electromagnetic environment	
Electromagnetic compatibility	Applies to use the Korea only. Class A Equipment (Industrial broadcasting and communication equipment) ¹
Warranty	Two years

¹ 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-107 ESP Palm-sized, CAT III Digital Multimeter

Included equipment

TL75 Hard Point™ Test Lead Set

Two AAA Batteries (installed)

SmartStrap™ Intelligent Magnetic

Multi-purpose Lanyard

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

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