

TECHNICAL DATA

Fluke 107 Pocket Digital Multimeter





Key features

- CAT III 600 V safety rating
- Current and voltage measurements
- Measures resistance and continuity to check for broken wires
- Data hold and backlit display to keep you working safe and fast

Product overview: Fluke 107 Pocket Digital Multimeter

The Fluke 107 is a compact, palm size easy-to-use digital multimeter made to fit the way you work. It is the perfect first-pass troubleshooting tool; small enough to fit in a shirt pocket yet tough enough to withstand daily use, including a 1-meter drop test. For everyday applications where true-rms accuracy isn't needed, the Fluke 107 delivers reliable measurements time after time. With a CAT III 600 V safety rating, you don't need to compromise safety. The Fluke 107 offers a comfortable grip, weighs only 200 g, and is easy to carry.

Fluke 107 measurement test functions

- AC and DC voltage
- AC and DC current
- Resistance
- Capacitance
- Diode
- Frequency and duty-cycle



The Fluke 107 comes with a TL75 Hard Point™ Test Lead Set. It's one pair (red, black) of 48 inch (1.22 meter) test leads with right-angle, shrouded banana plugs. The meter also includes a SmartStrap™ intelligent magnetic multi-purpose lanyard that lets you hang the Fluke 107 from any ferrous surface or support the meter at an angle for easy viewing.

Specifications: Fluke 107 Pocket Digital Multimeter

Accuracy is available for one year after calibration, operating from 18 °C to 28 °C and relative humidity from 0% to 75%. The format of the accuracy specification is: ± ([% of reading] + [least significant digit])

Precision specifications				
AC voltage (40 Hz to 500 Hz) ¹	Range	Resolution	Accuracy	
	6.000 V 60.00 V 600.0 V	0.001 V 0.01 V 0.1 V	1.0 % + 3	
DC voltage	6.000 V 60.00 V 600.0 V	0.001 V 0.01 V 0.1 V	0.5 % + 3	
Exchange millivolts	600.0 mV	0.1 mV	3.0 % + 3	
Diode test ²	2.000 V	0.001 V	10 %	
Resistance (ohm)	400.0 Ω 4.000 kΩ 40.00 kΩ 400.0 kΩ 4.000 MΩ 40.00 MΩ	0.1 Ω 0.001 kΩ 0.01 kΩ 0.1 kΩ 0.001 MΩ	0.5 % + 3 0.5 % + 2 0.5 % + 2 0.5 % + 2 0.5 % + 2 1.5% + 3	
Capacitor ³	50.00 nF 500.0 nF 5.000 μF 50.00 μF 500.0 μF 1000 μF	0.01 nF 0.1 nF 0.001 µF 0.01 µF 0.1 µF 1 µF	2 % + 5 2 % + 5 5 % + 5 5 % + 5 5 % + 5 5 % + 5	
Frequency ⁴ Hz (10 Hz – 100 kHz)	50.00 Hz 500.0 Hz 5.000 kHz 50.00 kHz 100.0 kHz	0.01 Hz 0.1 Hz 0.001 kHz 0.01 kHz 0.1 kHz	0.1 % + 3	
Duty cycle⁴	1 % to 99 %	0.10 %	1 % typical case ⁵	
AC current (40 Hz - 200 Hz)	4.000 A 10.00 A	0.001 A 0.01 A	1.5 % + 3	
DC	4.000 A 10.00 A	0.001 A 0.01 A	1.5 % + 3	

^{1.} All AC current, frequency, and duty cycle are specified from 1% to 100% of the range. Input values below 1% of range are not specified.

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

^{3.} The parameters do not include errors due to test lead capacitance and capacitor substrate (up to 1.5 nF in the 50 nF range).

^{4.} All AC current, frequency, and duty cycle are specified from 1% to 100% of the range. Input values below 1% of range are not specified.

^{5.} Typically, the frequency is 50 Hz or 60 Hz and the duty cycle is 10% to 90%.



Features	Overload protection	Input impedance (nominal value)	Common mode rejection ratio	Normal mode rejection ratio
AC voltage	600 V ¹	>10 MΩ <100 pF ²	>60 dB at 50 Hz or 60 Hz at DC current	-
Exchange millivolts	600 mV	>1M, <100 pF	>80 dB at 50 Hz or 60 Hz	-
DC voltage	600 V ¹	>10 MΩ <100 pF	>100 dB at 50 Hz or 60 Hz at DC current	>60 dB at 50 Hz or 60 Hz

^{1.} Up to 6 x 105 V Hz

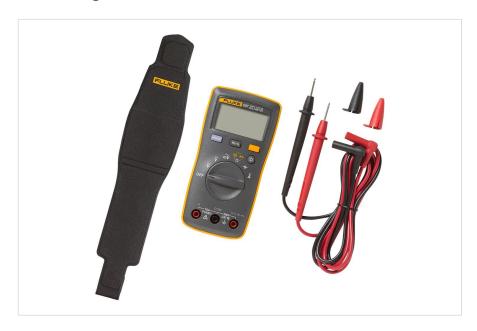
^{2.} For medium voltage (alternating current), the input impedance is approximately 1 M Ω .

General technical indicators				
The highest voltage applied to any terminal and ground	600 V			
Display (LCD)	6000 counts, updated three times per second			
Type of battery	Two AAA batteries (NEDA 24A, IEC LR03)			
Battery life	At least 200 hours			
Temperature				
Operating temperature	0 °C to 40 °C			
Storage temperature	-30 °C to 60 °C			
Relative humidity				
Working humidity	No condensation below 10 °C \leq 90 % at 10 °C to 30 °C; \leq 75 % at 30 °C to 40 °C			
Working humidity, 40 M□ range	≤ 80 % at 10 °C to 30 °C; ≤ 70 % at 30 °C to 40 °C			
Altitude				
Working elevation	2000 m			
Storage altitude	12,000 m			
Temperature coefficient	0.1 X (specified accuracy) / °C (<18 °C or >28 °C)			
Current input fuse protection	11A, 1000V fast-melting type, must use Fluke designated parts			
Volume (height x width x length)	142 mm x 69 mm x 28 mm			
Weight	200 g			
Protection level	IEC 60529: IP 40			
Safety	IEC 61010-1: 600 V CAT III, pollution degree 2			
Electromagnetic environment	IEC 61326-1: Portable			
Electromagnetic compatibility	Applicable only in Korea. Class A equipment (industrial broadcasting and communication equipment) ¹			
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¹ This product meets the requirements of industrial (Class A) electromagnetic wave equipment, which should be noted by the seller or user. The device is suitable for use in a work environment, not a home environment.



Ordering information



Fluke 107

Fluke 107 Palm-sized, CAT III Digital Multimeter

Includes:

- Fluke 107 Palm-sized, CAT III Digital Multimeter
- TL75 Hard Point™ Test Lead Set
- Two AAA batteries (installed)
- $\bullet \;\; \mathsf{SmartStrap}^{\scriptscriptstyle\mathsf{TM}} \; \mathsf{intelligent} \; \mathsf{magnetic} \; \mathsf{multi-purpose} \; \mathsf{lanyard}$

accessories

Fluke TL175 TwistGuard™ Test Leads

Fluke Pack30 Professional Tool Backpack

Fluke i400 AC Current Clamp

Description

Simply twist to change the exposed probe tip length.

The Fluke Pack30 tool backpack gives you a comfortable hands-free experience vs. traditional tool belts that put all the weight on your lower back.

Fluke i400 AC current clamps extend the use of digital multimeters. Get a single range 400 A AC clamp in a compact shape.



$\textbf{Fluke}. \ \textit{Keeping your world up and running}. \\ \textbf{\textcircled{\$}}$

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