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

Fluke 107 comes ready to work

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			
	Range	**Resolution**	**Accuracy**
AC voltage (40 Hz to 500 Hz)[1]	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 0.01 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 cycle[4]	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 MΩ.

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 ≤ 90 % at 10 °C to 30 °C; ≤ 75 % at 30 °C to 40 °C
Working humidity, 40 MΩ 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]

[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)
- SmartStrap™ intelligent magnetic multi-purpose lanyard

Optional accessories	Description
Fluke TL175 TwistGuard™ Test Leads	Simply twist to change the exposed probe tip length.
Fluke Pack30 Professional Tool Backpack	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 Clamp	Fluke i400 AC current clamps extend the use of digital multimeters. Get a single range 400 A AC clamp in a compact shape.

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