

技術資料

Fluke 107 數位萬用錶



主要功能

- 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

產品概述: Fluke 107 數位萬用錶

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.

規格: Fluke 107 數位萬用錶

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: \pm ([% of reading] + [least significant digit])

Precision specifications			
	Range	Resolution	Accuracy
AC voltage (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 voltage	6.000 V	0.001 V	0.5 % + 3
	60.00 V	0.01 V	
	600.0 V	0.1 V	
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	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
	40.00 MΩ	0.01 MΩ	1.5% + 3
Capacitor 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
	500.0 μF	0.1 μF	5 % + 5
	1000 μF	1 μF	5 % + 5
Frequency ⁴ Hz (10 Hz – 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	1 % to 99 %	0.10 %	1 % typical case ⁵
AC current (40 Hz - 200 Hz)	4.000 A	0.001 A	1.5 % + 3
	10.00 A	0.01 A	
DC	4.000 A	0.001 A	1.5 % + 3
	10.00 A	0.01 A	

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.

機型



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 可旋转表笔	獲得專利的TwistGuard™擴展的頂罩滿足電氣安全要求最高大多數測量提供了所需的通用性同時減少尖端暴露。
Fluke Pack30 專業工具背包	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 電流鉤表	用於數位式萬用表的 CAT IV 交流電流鉤表

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