

TECHNICAL DATA

Fluke 106 Palm-sized Digital Multimeter



Key features

- Voltage, resistance, continuity, capacitance
- Input terminal for ac and dc current measurements to 10 A and current
- Data hold

Product overview: Fluke 106 Palm-sized Digital Multimeter

The Fluke 106 digital multimeter is made to fit the way you work! It is designed to fit in the palm of your hand and go with you no matter where your job takes you.

Specifications: Fluke 106 Palm-sized Digital Multimeter

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])

Accuracy Specifications			
Function	Range	Resolution	Accuracy
AC Volts (40 Hz to 500Hz) ¹	6.000 V 60.00 V 600.0 V	0.001 V 0.01 V 0.1 V	1.0 % + 3

DC Volts	6.000 V 60.00 V 600.0 V	0.001 V 0.01 V 0.1 V	0.5 % + 3
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 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
Capacitance 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	NA
Duty Cycle ⁴	1 % to 99 %	0.1 %	NA
AC Current (40 Hz to 200 Hz)	4.000 A 10.00 A	0.001 A 0.01 A	1.5 % + 3
DC Current	4.000 A 10.00 A	0.001 A 0.01 A	1.5 % + 3

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.

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	–
VAC Millivolts	600 mV	>1M, <100 pF	>80 dB at 50 Hz or 60 Hz	–
DC Volts	600 V ¹	>10 MΩ <100 pF	>100 dB at dc, 50 Hz or 60 Hz	>60 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, NEDA 24A, 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	11A, 1000V 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: 600 V CAT III, Pollution Degree 2
Electromagnetic Environment	IEC 61326-1: Portable
Electromagnetic Compatibility	Applies to use the Korea only. Class A Equipment (Industrial Broadcasting and Communication Equipment) ¹
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 homes.	

Ordering information



Fluke 106

Fluke 106 Palm-sized Digital Multimeter

Includes:

- Fluke 106 Palm-sized Digital Multimeter
- TI75 Hard Point Test Lead Set
- 2 AAA Batteries (Installed)
- User's Manual

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

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