Fluke - 106 Palm-Sized Digital Multimeter

Specifications Sheet

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: ±([% of Reading] + [Number of Least Significant Digits])

ELECTRICAL / ACCURACY SPECIFICATIONS

Function	Range	Resolution	Accuracy
AC Volts (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 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[5]	1 % to 99.9 %	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.

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ACCURACY 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 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	Class A Equipment

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.