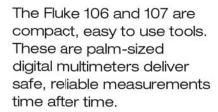


# Fluke 106/107 Palm-sized Digital Multimeters

Fluke 106 and 107 put measurements in the palm of your hand





The Fluke 106 and 107 are great products made to fit the way you work! These are the only Fluke digital multimeters designed to fit in the palm of your hand and go with you no matter where your job takes you.

# **Product highlights**

- Voltage, resistance, continuity, capacitance
- Input terminal for ac and dc current measurements to 10 A and current
- · Data hold
- Backlit display (107 only)
- Diode test, plus frequency and duty cycle measurements (107 only)





# **Specifications**

## **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:  $\pm ([\% \text{ of Reading}] + [Number \text{ of Least}])$ Significant Digits])

Function	Range	Resolution	Ac	curacy
	achieles and	United Section Control of the Contro	106	107
AC volts	6.000 V	0.001 V	1.0% + 3	1.0% + 3
(40 Hz to 500 Hz)1	60.00 V	0.01 V		
(C	600.0 V	0.1 V		
DC volts	6.000 V	0.001 V	0.5% + 3	0.5% + 3
	60.00 V	0.01 V		
	600.0 V	0.1 V		
AC millivolts	600.0 mV	0.1 mV	3.0% + 3	3.0% + 3
Diode test <sup>2</sup>	2.000 V	0.001 V	N/A	10%
Resistance (ohms)	400.0 Ω	0.1 Ω	0.5% + 3	0.5% + 3
	4.000 kΩ	0.001 kΩ	0.5% + 2	0.5% + 2
	40.00 kΩ	0.01 kΩ	0.5% + 2	0.5% + 2
	400.0 kΩ	0.1 kΩ	0.5% + 2	0.5% + 2
	4.000 ΜΩ	0.001 ΜΩ	0.5% + 2	0.5% + 2
	40.00 ΜΩ	0.01 ΜΩ	1.5% + 3	1.5% + 3
Capacitance <sup>3</sup>	50.00 nF	0.01 nF	2% + 5	2% + 5
	500.0 nF	0.1 nF	2% + 5	2% + 5
	5.000 μF	0.001 µF	5% + 5	5% + 5
	50.00 μF	0.01 µF	5% + 5	5% + 5
	500.0 μF	0.1 μF	5% + 5	5% + 5
	1000 μF	1 μF	5% + 5	5% + 5
Frequency <sup>4</sup>	50.00 Hz	0.01 Hz	N/A	0.1% + 3
(10 Hz to 100 kHz)	500.0 Hz	0.1 Hz		
	5.000 kHz	0.001 kHz 0.01 kHz		
	50.00 kHz 100.0 kHz	0.01 kHz		
Dutu cualas	0.1 % to	0.1 KHZ	N/A	1.0/. trmico14
Duty cycle <sup>5</sup>	99.9%	0.1%	IN/A	1% typical4
T.C. commont		0.001 A	1.5% + 3	1.5% + 3
AC current	4.000 A	1 -1	1.5% + 3	1.5% + 3
(40 Hz to 200 Hz)	10.00 A	0.01 A	1.00/ . 0	1.00/ . 0
DC current	4.000 A	0.001 A	1.5% + 3	1.5% + 3
Deelelielet	10.00 A	0.01 A	NT-	Ver
Backlight			No	Yes

<sup>1</sup> All AC, Hz, and duty cycle are specified from 1 % to 100 % of range. Inputs below 1 % of range are not

<sup>&</sup>lt;sup>4</sup> All AC, Hz, and duty cycle are specified from 1 % to 100 % of range. Inputs below 1 % of range are not specified.

Function	Overload	Input imped-	Common mode	Normal me
Typical means v	viteri die frequency is a	t 50 Hz of 60 Hz and the t	inty cycle is between 10	70 and 90 70.

Function	Overload protection	Input imped- ance (nominal)	Common mode rejection ratio	Normal mode rejection ratio
AC volts	600 V1	> 10 MΩ < 100 pF <sup>2</sup>	> 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 V1	> 10 MΩ < 100 pF	> 100 dB at dc, 50 Hz or 60 Hz	> 45 dB at 50 Hz or 60 Hz

<sup>16</sup> x 105 V Hz Max.

# Ordering information

FLUKE-106 Digital Multimeter FLUKE-107 Digital Multimeter

## **Included equipment**

- TL75 Test leads
- 2 AAA Batteries (installed)
- User's manual

## General specifications

Maximum voltage between any terminal and earth ground  Display (LCD)  Battery type  2 AAA, NEDA 24A, IEC LRO3  Battery life  Comperature  Comperating: 0 °C to 40 °C  Storage: -30 °C to 60 °C  Operating Humidity: Non-condensing when < 10 °C  < 90 % at 10 °C to 40 °C  Storage: -30 °C to 40 °C  Operating Humidity: Non-condensing when < 10 °C  Storage: -30 °C to 40 °C  Operating Humidity: Non-condensing when < 10 °C  Storage: -30 °C to 40 °C  Operating Humidity, 40 MΩ Range:
and earth ground Display (LCD)  Sattery type  2 AAA, NEDA 24A, IEC LRO3  Sattery life  Comperature  Comperature  Comperature  Comperating: 0 °C to 40 °C  Storage: -30 °C to 60 °C  Comperating Humidity: Non-condensing when < 10 °C  ≤ 90 % at 10 °C to 30 °C;  ≤ 75 % at 30 °C to 40 °C
Display (LCD)  Gattery type  2 AAA, NEDA 24A, IEC LRO3  Battery life  200 hours minimum  Operating: 0 °C to 40 °C  Storage: -30 °C to 60 °C  Operating Humidity: Non-condensing when < 10 °C  ≤ 90 % at 10 °C to 30 °C;  ≤ 75 % at 30 °C to 40 °C
Battery type  2 AAA, NEDA 24A, IEC LRO3  Battery life  200 hours minimum  Operating: 0 °C to 40 °C  Storage: -30 °C to 60 °C  Operating Humidity: Non-condensing when < 10 °C  ≤ 90 % at 10 °C to 30 °C;  ≤ 75 % at 30 °C to 40 °C
Sattery life 200 hours minimum  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
Temperature  Operating: 0 °C to 40 °C Storage: -30 °C to 60 °C  Operating Humidity: Non-condensing when < 10 °C ≤ 90 % at 10 °C to 30 °C; ≤ 75 % at 30 °C to 40 °C
Storage: -30 °C to 60 °C  Querating Humidity: Non-condensing when < 10 °C  < 90 % at 10 °C to 30 °C;  < 75 % at 30 °C to 40 °C
Relative humidity  Operating Humidity: Non-condensing when < 10°C ≤ 90 % at 10 °C to 30 °C; ≤ 75 % at 30 °C to 40 °C
when < 10°C ≤ 90 % at 10 °C to 30 °C; ≤ 75 % at 30 °C to 40 °C
≤ 90 % at 10 °C to 30 °C; ≤ 75 % at 30 °C to 40 °C
≤ 75 % at 30 °C to 40 °C
Operating Humidity, 40 MO Range:
$\leq$ 80 % at 10 °C to 30 °C;
≤ 70 % at 30 °C to 40 °C
Altitude Operating: 2000 m
Storage: 12,000 m
Temperature 0.1 X (specified accuracy)/°C
coefficient (< 18 °C or > 28 °C)
Fuse protection for 11 A, 1000 V Fast Fuse, Fluke
current inputs specified part only
Size (HxWxL) 142 mm x 69 mm x 28mm
Weight 200 g
P rating IEC 60529: IP 40
Safety IEC 61010-1: 600 V CAT III,
Pollution Degree 2
Electromagnetic IEC 61326-1: portable
environment
Electromagnetic Applies to use the Korea only.
compatibility Class A Equipment
(Industrial broadcasting and
communication equipment) <sup>1</sup>
Narranty One year

<sup>&</sup>lt;sup>1</sup>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

Fluke. The Most Trusted Tools in the World.

### **Fluke Corporation**

PO Box 9090, Everett, WA 98206 U.S.A.

#### Fluke Europe B.V.

PO Box 1186, 5602 BD Eindhoven, The Netherlands

#### For more information call:

In the U.S.A. (800) 443-5853 or Fax (425) 446-5116

In Europe/M-East/Africa +31 (0) 40 2675 200 or Fax +31 (0) 40 2675 222

In Canada (800)-36-FLUKE or

Fax (905) 890-6866 From other countries +1 (425) 446-5500 or

Fax +1 (425) 446-5116

Web access: http://www.fluke.com

©2013 Fluke Corporation. Specifications subject to change without notice. Printed in U.S.A. 7/2013 6000021A\_EN

Modification of this document is not permitted without written permission from Fluke Corporation.

<sup>&</sup>lt;sup>2</sup> Typically, open circuit test voltage is 2.0 V and short circuit current is < 0.6 mA.

<sup>3</sup> Specifications do not include errors due to test lead capacitance and capacitance floor (may be up to 1.5 nF in the

 $<sup>^2</sup>$  For mV (AC), input impedance is approximately 1 M $\Omega$ .