

AVAILABLE AT  
CITY ELECTRIC SUPPLY



TECHNICAL DATA

# Fluke 107 Palm-sized, CAT III Digital Multimeter



**SIZE (H X W X L)**  
142 mm x 69 mm x 28mm

**WARRANTY**  
1-year

**FLUKE 107 COMPLETE TEST FUNCTIONS**

- Including AC and DC voltage measurement
- AC and DC current measurement
- Resistance measurement
- Capacitance measurement
- Diode measurement
- Frequency and duty cycle test and other functions to meet basic electrical maintenance, electrical measurement, and electronic measurement applications

**Professional measurements in the palm of your hand**

The Fluke 107 is a compact, easy-to-use multimeter made to fit the way you work. It is the perfect first-pass troubleshooting tool: small enough to fit in a shirt pocket or work bag, tough enough to withstand daily use, and extremely simple to use. All without compromising safety. For everyday applications, where true-rms accuracy isn't needed, the Fluke 107 delivers reliable measurements time after time.

**Product highlights**

- AC/DC voltage to 600 V
- AC/DC current to 10 A
- Resistance and Continuity to check for broken wires
- Data hold and backlit display to keep you working safe and fast

**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)]

Function	Range	Resolution	Accuracy
AC volts (40 Hz to 500 Hz) <sup>1</sup>	6.000 V	0.001 V	1.0% + 3
	60.00 V	0.01 V	
	600.0 V	0.1 V	
DC volts	6.000 V	0.001 V	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
Diode test <sup>2</sup>	2.000 V	0.001 V	10%
	400.0 Ω	0.1 Ω	0.5% + 3
Resistance (ohms)	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
Capacitance <sup>3</sup>	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
Frequency <sup>4</sup> (10 Hz to 100 kHz)	1000 μF	1 μF	5% + 5
	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 <sup>4</sup>	0.1% to 99.9%	0.1%	1% typical <sup>5</sup>
AC current (40 Hz to 200 Hz)	4.000 A	0.001 A	1.5% + 3
	10.00 A	0.01 A	
DC current	4.000 A	0.001 A	1.5% + 3
	10.00 A	0.01 A	
Backlight	—	—	Yes



**Electrical specifications**

Function	Overload protection	Input impedance (nominal)	Common mode rejection ratio	Normal mode rejection ratio
AC volts	600 V <sup>1</sup>	> 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 V <sup>2</sup>	> 10 MΩ < 100 pF	> 100 dB at dc, 50 Hz or 60 Hz	> 45 dB at 50 Hz or 60 Hz

<sup>1</sup> 6 x 105 V Hz Max

<sup>2</sup> 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 LRO3
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	11 A, 1000 V 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) <sup>1</sup>
Warranty	One year

<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 home.

**Ordering information**

**FLUKE-107 ESP** Palm-sized, CAT III Digital Multimeter

**Included equipment**

- TL75 Hard Point™ Test Lead Set
- Two AAA Batteries (installed)
- SmartStrap™ Intelligent Magnetic Multi-purpose Lanyard

**Fluke.** *Keeping your world up and running.*<sup>®</sup>

**Fluke Corporation**  
PO Box 9090, Everett, WA 98206 U.S.A.  
**Fluke Europe B.V.**  
PO Box 1186, 5602 BD Eindhoven, The Netherlands

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

**For more information call:**  
In the U.S.A. (800) 443-5853 or Fax (425) 446-5116  
In Europe/M-East/Africa +31 (0)40 267 5100 or Fax +31 (0)40 267 5222  
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, 2019 Fluke Corporation.  
Specifications subject to change without notice.  
Printed in U.S.A. 9/2019 6000021c-en

