

TECHNICAL DATA

Fluke 27 II Rugged Digital Multimeter



Key features

- Measure up to 1000 V AC and DC
- Measure up to 10 A (20 A for 30 seconds)
- 10,000 μ F capacitance range
- Frequency to 200 kHz
- Extended AC voltage bandwidth – 40 Hz to 30 kHz
- Resistance, continuity and diode test
- Min/Max and average recording to capture variations automatically

Product overview: Fluke 27 II Rugged Digital Multimeter

The standard for rugged

The Fluke 27 II Digital Multimeter define a the standard for operating in harsh conditions with the features and accuracy to troubleshoot most electrical problems. Both meters have IP 67 (waterproof and dustproof) rating, MSHA approvals, extended operating temperature range of -15 °C to +55 °C (5 °F to 131 °F, -40 °C for up to 20 minutes) and 95% humidity, and have been designed and tested to withstand a 3 m (10 ft) drop. The Fluke 20 Series Multimeters are built to work in the toughest environments.

Specifications: Fluke 27 II Rugged Digital Multimeter

Accuracy Specifications		
DC voltage	Range	0.1 mV to 1000 V
	Accuracy	0.1% + 1
AC voltage	Range	0.1 mV to 1000 V
	Accuracy	0.5% + 3
DC current	Range	0.1 μA to 10 A
	Accuracy	0.2% + 4
AC current	Range	0.1 μA to 10 A
	Accuracy	1.5% + 2
Resistance	Range	0.1 Ω to 50 MΩ
Display counts	6000	
Capacitance	1 nF to 9999 μF	
Frequency	0.5 Hz to 199.99 kHz	
Compliance	CAT IV 600 V , CAT III 1000V	
IP rating	IP 67	
Power	Three AA batteries	
Battery life	800 hours	
General Specifications		
Display	Bar graph/backlight	Yes/Yes
Data storage	Min/Max/Avg	Yes
	Reading hold	Yes
Other features	Relative readings (zero)	Yes
	Battery type	Three AA batteries
Warranty and protection	Safety rating	CAT IV 600 V/CAT III 1000 V
	Mine safety	MSHA Approved
	External protection	Rubber holster
	Drop test	10 feet drop test
	Dustproof/waterproof	Yes, IP 67 rated
	Warranty	Limited lifetime
	Size (H x W x L) with holster	6.35 x 10.0 x 19.81 cm (2.5 x 3.93 x 7.8 in)
	Weight with holster	698.5 g (1.54 lb)

Ordering information



Fluke 27 II

Fluke 27 II Rugged Digital Multimeter

Part#: 3307768

UPC#: 095969462655

Includes:

- Holster
- Test Leads
- Alligator Clips
- Printed getting started manual
- CD ROM manual
- 3 AA batteries



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

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

For more information call:
In the U.S.A. (800) 443-5853
In Canada (800) 36-FLUKE
From other countries +1 (425) 446-5500
www.fluke.com

©2026 Fluke Corporation.
Specifications subject to change without notice.
07/2026

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