

TECHNICAL DATA

Fluke 27 II and 28 II: Rugged IP 67 Industrial Multimeters



The standard for rugged

The NEW Fluke 27 II and 28 II digital multimeters define a new 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 approval, 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 new Fluke 20 Series Multimeters are built to work in the toughest environments.

Features

- Measure up to 1,000 V ac and dc
- Measure up to 10 A (20 A for 30 seconds)
- 10,000 µF capacitance range
- Frequency to 200 kHz
- Extended ac voltage bandwidth—15 Hz to 20 kHz (28 II), 40 Hz to 30 kHz (27 II)
- Built in thermometer conveniently allows you to take temperature readings without having to carry a separate instrument (28 II)
- Resistance, continuity and diode test
- Min/Max and average recording to capture variations automatically
- Peak min-max (28 II)
- Unique function for accurate voltage and frequency measurements on adjustable speed motor drives and other electrically noisy equipment (28 II)
- IP 67 waterproof and dustproof protection, completely sealed for use in harsh environments
- Designed to withstand 3 meter drop (with holster)
- Hi resolution 20,000 count display mode (28 II)
- True-rms ac voltage and current for accurate measurements on non linear signals (28 II)
- Average responding voltage and current for measurements (27 II)
- Backlit keypad buttons allow for easy visibility in low-lit areas
- Large display digits and 2 level bright white backlight for increased visibility
- Reversible holster for added protection when not in use
- Withstands hazardous 8,000 volt spikes caused by load switching and faults on industrial circuits
- Long battery life (800 hours)
- Relative mode to remove test lead resistance from low ohms measurements
- Auto and manual ranging for maximum flexibility
- Optional magnetic hanger for easy setup and viewing while freeing your hands for other tasks
- MSHA approved

SAFETY RATED

CAT IV 600 V/CAT III 1000 V

WARRANTY

Limited lifetime

IP RATED

IP67, dustproof and waterproof

Specifications

Accuracy specifications		
	27 II	28 II
DC voltage	0.1 mV to 1000 V	
Range	0.1 mV to 1000 V	
Accuracy	0.1 % +1	0.05 % + 1
AC voltage	0.1 mV to 1000 V	
Range	0.1 mV to 1000 V	
Accuracy	0.5 % +3	0.7 % +4
DC current	0.1 µA to 10 A	
Range	0.1 µA to 10 A	
Accuracy	0.2 % + 4	0.2 % + 4
AC current	0.1 µA to 10 A	
Range	0.1 µA to 10 A	
Accuracy	1.5 % + 2	1.0 % + 2
Resistance range	0.1 Ω to 50 MΩ	
Display counts	6,000	6,000/19,999
Capacitance	1 nF to 9999 µF	
Frequency	0.5 Hz to 199.99 kHz	
Temperature	-	-200 °C to +1090 °C
Low pass filter (Measurement on VSD's)	-	Yes
General specifications		
Bar graph/backlight	Yes/Yes	
Peak transient capture	250 µS (28 II)	
Min/Max/Avg	Yes	
Reading hold	Yes	
Relative readings (zero)	Yes	
Battery type	Three AA IEC LR6 batteries	
Battery life	800 hours	
Safety rating	IEC 61010-1: Pollution degree 2 IEC 61010-2-033: CAT IV 600 V, CAT III 1000V	
Electromagnetic compliance	IEC 61326-1: Portable	
External protection	Rubber holster	
IP rating	IEC 60529: IP 67	
Warranty	Limited lifetime	
Size (HxWxL) with holster	6.35 cm x 10.0 cm x 19.81 cm (2.5 in x 3.93 in x 7.8 in)	
Weight with holster	698.5 g (1.54 lb)	

Ordering information

27 II Fluke 27 II Rugged IP 67 Avg. Responding Multimeter

28 II Fluke 28 II Rugged IP 67 True-rms Multimeter

Includes

Holster, test leads, alligator clips, **80BK-A** temperature probe (28 II), user documentation, and three AA batteries (installed)

Optional accessories

PV 350 Pressure Vacuum Module

i200 AC Current Clamp

i410 AC/DC Current Clamp

80K-6 High Voltage Probe



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

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Specifications subject to change without notice.

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