TECHNICAL DATA

Fluke 87 MAX True-rms Digital Multimeter



The 87V MAX contains all the trusted features of the most popular DMM used today, the Fluke 87V, plus much more.

IP67 RATED

Fully waterproof and dust proof, to work reliably in all the places that you need to work.

WITHSTANDS DROPS UP TO 4-METERS (13 FEET)

Fluke's most rugged digital multimeter. The 87V MAX is built with an industrial strength case and a removable holster. The holster doubles as a test probe holder for one-handed operation.

WORKS AS LONG AS YOU DO

The 87V MAX provides double the battery life of the original 87V.

WITHSTANDS HEAT AND COLD

The meter has an extended operating temperature range of -40 °C (for up to 20 minutes) to +55 °C.

For use in extreme environments

The Fluke 87V MAX True-rms Digital Multimeter defines a new standard for operating in extreme conditions with the features and accuracy to troubleshoot most electrical problems. The 87V MAX has an IP 67 (waterproof and dustproof) rating, 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 has been designed and tested to withstand a 4 m (13 ft) drop. The Fluke 87V MAX True-rms Digital Multimeter is built to work in the toughest environments you might face.

The 87V MAX also gives users a rugged case and removable holster that has been drop tested to 4 meters.

Product highlights

- True-rms ac voltage and current for accurate measurements on non-linear signals
- Measure up to 1000 V ac and dc
- Measure up to 10 A (20 A for 30 seconds)
- Frequency to 200 kHz
- Built in thermometer conveniently allows you to take temperature readings without having to carry a separate instrument
- Min/Max/Average recording, plus 150 µs Peak min-max to capture variations automatically
- Unique function for accurate voltage and frequency measurements on variable frequency motor drives (VFDs) and other electrically noisy equipment
- Large display digits, 2-level bright white backlight and backlit keypad buttons for increased visibility
- Hi resolution 20,000 count display mode
- Long battery life (800 hours)



Specifications

Accuracy		
DC voltage	Max. resolution Accuracy	0.1 mV to 1000 V 0.05 % + 1
AC voltage	Max. resolution Accuracy	0.1 mV to 1000 V 0.7 % + 4
DC current	Max. resolution Accuracy	0.1 µA to 10 A 0.2 % + 4
AC current	Max. resolution Accuracy	0.1 µA to 10 A 1.0 % + 2
Resistance	Max. resolution	0.1 Ω to 50 MΩ
Display counts	6000/19,999	
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 VFDs)	Yes	
Safety rating	CAT IV 600 V, CAT III 1000V	
IP rating	IP 67	
Power	Three AA batteries	
Battery life	800 hours	

Display	
Bar graph/backlight	Yes/Yes
Data storage	
Peak transient capture	250 µs
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
External protection	Rubber holster
Drop test	13 feet drop test
Dustproof/waterproof	Yes, IP 67 rated
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

Fluke 87V MAX True-rms Digital Multimeter

Includes
Holster, TL175 TwistGuard® test leads, alligator clips, 80BK-A temperature probe, three AA batteries (installed)

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

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