

TECHNICAL DATA

# Fluke 87V Industrial Multimeter



## Key features

- Identify complex signal problems fast
- Supports accurate measurements on VFDs using a low-pass filter
- Captures intermittents as fast as 250  $\mu$ S with Peak Capture

## Product overview: Fluke 87V Industrial Multimeter

The Fluke 87V Industrial Multimeter provides the resolution and accuracy to efficiently troubleshoot motor drives, plant automation, power distribution, and electromechanical equipment - even in loud, high-energy, and high-altitude locations. The 87V is designed so you can work more efficiently.

- Easy-access door for fast battery changes without breaking the calibration seal
- Analog bar graph for fast changing or unstable signals
- Large digit display with bright, two-level backlight for easier reading in low light
- Touch Hold keeps readings on display even after removing probes

The 87V lets you identify complex electrical problems fast. It supports accurate measurements on VFDs using a low-pass filter. The meter also captures intermittents as fast as 250  $\mu$ S using Peak Capture. High-frequency, high-energy noise generated by large drive systems is blocked from your measurements with specially designed shielding.



## Built to highest safety standards

All the inputs in the 87V are updated to the third edition of the EN 61010-1 to CAT III 1000 V and CAT IV 600 V. The meter is designed to withstand spikes of more than 8000 V. You also benefit from an audible Input Alert warning if the test leads are placed in the incorrect input jacks for the measurement being made.

## Removable holster with built in test lead and probe storage for convenience

The 87V has a removeable holster that also holds a test probe during testing for easier viewing. Relative mode lets you remove test lead resistance, improving accuracy of low-resistance measurements. To make your life even easier, the 87V fits into an optional magnetic hanger for easy set-up and viewing while freeing your hands for other tasks.

## Additional measurement features

The Fluke 87V is designed and built in the U.S. and comes with a lifetime warranty.

**For a complete comparison of specifications, please visit our [selection guide](#) for digital multimeters.**



	<a href="#">Fluke 87V Industrial Multimeter</a>	<a href="#">Fluke 87V MAX True-rms Digital Multimeter</a>	<a href="#">Fluke 289 True-RMS Data Logging Multimeter</a>	<a href="#">Fluke 179 True-RMS Digital Multimeter</a>	<a href="#">Fluke 1587 EC Icosafacem Multimeter</a>
<b>CAT rating</b>	CAT III 1000 V CAT IV 600 V	CAT III 1000 V CAT IV 600 V	CAT III 1000 V CAT IV 600 V	CAT III 1000 V CAT IV 600 V	CAT III 1000 V CAT IV 600 V
<b>True-rms readings</b>	0	0	0	0	0
<b>Voltage</b>	1000 V	1000 V	1000 V	1000 V	1000 V
<b>Current</b>	10 A	10 A	10 A	10 A	400 mA
<b>AC/DC</b>	50 MO	50 MO	500 MO	50 MO	50 MO
<b>Resistance</b>	9,999 µF	9,999 µF	100,000 µF	9,999 µF	9,999 µF
<b>Capacitance</b>	-200 °C to 1090 °C	-200 °C to 1090 °C	-200 °C to 1350 °C	-200 °C to 400 °C	-40 °C to 537 °C
<b>Temperature</b>	Frequency, continuity/diode test, motor drive (VFD) measurement, duty cycle, microamps, analog bar graph, relative reference	Conductance, continuity/diode test, duty cycle, frequency, microamps, motor drive (VFD) measurement, pulse width, relative reference	Conductance (50ns), duty cycle, frequency, continuity/diode test, low input impedance, microamps, pulse width	Continuity/diode test, frequency, microamps	Frequency, PVDAR, timed ratio tests, continuity/diode test, motor drive (VFD) measurement, microamps, relative reference
<b>Additional measurement capabilities</b>	IP 30	IP 67	IP 42	-	-
<b>IP rating</b>	400 hours	800 hours	200 hours	200 hours	1000 hours
<b>Battery life</b>	3 meters	4 meters	-	-	-
<b>Drop test</b>	No	Yes	No	No	No
<b>Backlit keypad</b>					

## Specifications: Fluke 87V Industrial Multimeter

## Ordering information



### Fluke 87V

Fluke 87V Industrial Multimeter

Includes:

- TL75 Test Leads (TL175 EUR)
- AC175 Alligator Clips
- Holster
- 9V Battery (Installed)
- 80BK Temperature Probe

### Fluke 87V CAL

Fluke 87V Industrial Multimeter, with a traceable certificate of calibration with data from Fluke

Includes:

- TL75 Test Leads (TL175 EUR)
- AC175 Alligator Clips
- Holster
- 9V Battery (Installed)
- 80BK Temperature Probe
- A traceable certificate of calibration with data from Fluke

#### Optional accessories

**Fluke TPAK ToolPak™ Magnetic Meter Hanger**

#### Description

Powerful magnetic strap for safe, hands free measurements.

**Fluke TLK-225 SureGrip Master Accessory Set**

Includes all the SureGrip™ leads and probes in a handy six-pocket, roll-up pouch, along with TL224 test leads.

## Optional accessories

### Fluke CXT80 Extreme Case

## Description

Unbreakable, watertight, airtight, dustproof, chemical resistant and corrosion proof.

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### Fluke Pack30 Professional Tool Backpack

The Fluke Pack30 tool backpack gives you a comfortable hands-free experience vs. traditional tool belts that put all the weight on your lower back.

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