

پتروفرهان گستر جنوب

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FLUKE®

Fluke 87V Industrial Multimeter



پتروفرهان گستر جنوب

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Key features

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

Product overview: Fluke 87V Industrial Multimeter

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The Fluke logo consists of the word "FLUKE" in a bold, black, sans-serif font, followed by a registered trademark symbol (®). It is centered within a solid yellow rectangular background.

- 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 μ 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.



Fluke 115 Field Technicians Digital Multimeter	
CAT rating	CAT III 600 V
True-rms readings	II
Voltage AC/DC	600 V
Current AC/DC	10 A
Resistance	40 MΩ
Capacitance	10,000 μF
Temperature	-
Infrared camera	-
Additional measurement capabilities	Continuity/diode test

Fluke 57V Industrial Multimeter	
CAT III 1000 V	II
CAT IV 500 V	II
Voltage	1000 V
Current	10 A
Resistance	50 MΩ
Capacitance	10,000 μF
Temperature	-200.0 °C to 1090 °C
Additional measurement capabilities	Frequency, continuity/diode test, motor drive (VFD) measurement, duty cycle, microamps, analog bar graph, relative reference

Fluke 3000 FC Series Wireless Multimeter	
CAT III 1000 V	II
CAT IV 500 V	II
Voltage	1000 V
Current	400 mA
Resistance	50 MΩ
Capacitance	10,000 μF
Temperature	with 13000 FC
Additional measurement capabilities	Frequency, continuity/diode test. Able to connect to three 3000 FC modules.

Fluke 1587 FC Insulation Multimeter	
CAT III 1000 V	II
CAT IV 500 V	II
Voltage	1000 V
Current	400 mA
Resistance	50 MΩ
Capacitance	10,000 μF
Temperature	-40 °C to 537 °C
Additional measurement capabilities	Frequency, P/VOL, timed ratio tests, continuity/diode test, motor drive (VFD) measurement, microamps, relative reference

Fluke 279 FC True-rms Thermal Multimeter	
CAT III 1000 V	II
CAT IV 500 V	II
Voltage	1000 V
Current	2500 A AC (with iFlex)
Resistance	50 MΩ
Capacitance	10,000 μF
Temperature	Infrared camera -10 °C to 200 °C
Additional measurement capabilities	Frequency, continuity/diode test, motor drive (VFD) measurement

Specifications

Voltage DC	Maximum voltage	1000 V
	Accuracy	±(0.05% + 1)
	Maximum resolution	10 μV

Voltage AC	Maximum voltage	1000 V
	Accuracy	$\pm(0.7\% + 2)$ True RMS
	AC bandwidth	20 kHz with low pass filter; 3 dB @ 1 kHz
	Maximum resolution	0.1 mV
Current DC	Maximum amps	10 A (20 A for 30 seconds maximum)
	Amps accuracy	$\pm(0.2\% + 2)$
	Maximum resolution	0.01 μ A
Current AC	Maximum amps	10 A (20 A for 30 seconds maximum)
	Amps accuracy	$\pm(1.0\% + 2)$ True RMS
	Maximum resolution	0.1 μ A
Resistance	Maximum resistance	50 M Ω
	Accuracy	$\pm(0.2\% + 1)$
	Maximum resolution	0.1 Ω
Capacitance	Maximum capacitance	9,999 μ F
	accuracy	$\pm(1\% + 2)$
	Maximum resolution	0.01 nF
Frequency	Maximum frequency	200 kHz
	Accuracy	$\pm(0.005\% + 1)$
	Maximum resolution	0.01 Hz
Duty cycle	Maximum duty cycle	99.9%
	Accuracy	$\pm(0.2\% \text{ per kHz} + 0.1\%)$
	Maximum resolution	0.1%

Temperature measurement	-200.0 °C – 1090 °C -328.0 °F – 1994.0 °F excluding probe	
80 BK temperature probe	-40.0 °C – 260 °C -40.0 °F – 500 °F, 2.2 °C or 2% whichever is greater	
Conductance	Maximum conductance	60.00 nS
	Accuracy	±(1.0% + 10)
	Maximum resolution	0.01 nS
Diode	Range	3 V
	Resolution	1 mV
	Accuracy	±(2% + 1)
Duty cycle range	Accuracy	Within ±(0.2% per kHz + 0.1%)
Environmental Specifications		
Operating temperature	-20 °C to +55 °C	
Storage temperature	-40 °C to +60 °C	

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Humidity (without condensation)	0% – 90% (0 °C – 35 °C) 0% – 70% (35 °C – 55 °C)	
Operating Altitude	2000 m	
Safety Specifications		
Overvoltage category	EN 61010–1 to 1000 V CAT III, 600V CAT IV	
Agency approvals	CE, CSA, RCM	
Mechanical and General Specifications		
Size	201 x 98 x 52 mm (with holster)	
Weight	355 g 624 g – with holster	
Display	Digital	6000 counts updates 4/sec. 19,999 counts in high-resolution mode
	Analog	32 segments, updates 40/sec
	Frequency	19,999 counts, updates 3/sec at > 10 Hz
Warranty	Lifetime	
Battery Life	Alkaline	~400 hours typical, without backlight
Shock	1 Meter drop per IEC 61010–1:2001	
Vibration	Per MIL–PRF–28800 for a Class 2 instrument	