80 Series V Digital Multimeters





Fluke 83V

Fluke 87V







On all inputs



Fluke 87V Ex









OL not 87V Ex

Included Accessories

TL75 test leads, AC72 alligator clips, yellow holster (H80M excl. TPAK), 80BK temperature probe (87V only), 9 V battery (installed), CD-ROM (user's manual and technical notes) and operator's guide.

Ordering Information

Fluke 83V M Fluke 87V Tr Fluke 87V Ex In

Multimeter True RMS Multimeter Intrinsically safe True RMS multimeter

Fluke 87V/E2 Industrial Electrician Combo Kit

Performance and accuracy for maximum industrial productivity

The Fluke 80 Series V have improved measurement functions, troubleshooting features, resolution and accuracy to solve more problems on motor drives, in plant automation, power distribution, and electromechanical equipment.

The Fluke 87V has a unique function for accurate voltage and frequency measurements on adjustable speed motor drives and other electrically noisy equipment. A built-in thermometer conveniently allows you to take temperature readings without having to carry a separate instrument.

Features

	83V	87V / 87V Ex
True-RMS voltage and current for accurate measurements on non linear signals		•
Bandwidth (voltage/current)	5 kHz	20 kHz
Digital display counts (default/selectable)	6000	20000 / 6000
Selectable filter for accurate voltage and frequency measurements on motor drives		•
Large display with analog bargraph and 2 level bright white backlight	•	•
Auto and manual ranging for maximum flexibility	•	•
Built-in thermometer lets you carry one less tool		•
Peak capture to record transients as fast as 250 μs		•
Relative mode to remove test lead resistance from low ohms measurements	•	•
Min-Max-Average recording with Min/Max Alert to capture variations automatically	•	•
AutoHOLD* to capture stable readings avoiding noisy signals	•	•
Audible continuity, diode test and duty cycle	•	•
Input Alert	•	•
"Classic" design with new removable holster with built in test lead and probe storage	•	•
Improved selectable sleep mode for long battery life	•	•
Easy battery exchange without opening the complete case	•	•
ATEX safety rating 🐼 II 2 G Eex ia IIC T4		87V Ex

Specifications

(Check the Fluke web for detailed specifications)

Functions	Maximum Range		
Voltage DC	1000 V		
Voltage AC	1000 V		
Current DC	10 A **		
Current AC	10 A **		
Resistance	50 MΩ		
Conductance	ance 60 nS		
Capacitance	9999 μF		
Frequency	> 200 kHz		
Temperature	-200 to 1090 °C		
80BK temperature probe	- 40 to 260 °C		

		83V		87V/87V Ex*	
		Max. resolution	Accuracy	Max. resolution	Accuracy
Ī		0.1 mV	±(0.1%+1)	10 μV	±(0.05%+1)
		0.1 mV	±(0.5%+2)	10 μV	±(0.7%+2)
		0.1 µA	±(0.4%+2)	0.01 µA	±(0.2%+2)
		0.1 µA	±(1.2%+2)	0.01 µA	±(1.0%+2)
		0.1 Ω	±(0.4%+1)	0.01 Ω	±(0.2%+1)
_		0.01 nS	±(1.0%+10)	0.001 nS	±(1.0%+10)
		0.01 nF	±(1.0%+2)	0.01 nF	±(1.0%+2)
		0.01 Hz	±(0.005%+1)	0.01 Hz	±(0.005%+1)
_	-		0.1 °C	1.0%	
_				_	2.2 °C or 2%

Accuracies are best accuracies for each function.

* 87V accuracy is stated for 6000 counts and resolution for 20000 counts

** 20 A up to 30 seconds

Battery Life: Over 400 hours typical (alkaline). Size (HxWxD):

200 mm x 95 mm x 48 mm

Weight: 0.6 kg 83V/87V: Lifetime Warranty 87V Ex: One Year Warranty

Recommended Accessories

(Not for hazardous zones)











C25

TL238

i410/i1010

L21

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