

HAND TOOLS MULTIMETERS

> The 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.



1. Fluke 87V Industrial Multimeter



> Key Features

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

Specifications				
Voltage DC	Maximum voltage	1000 V		
	Accuracy	±(0.05% + 1)		
	Maximum resolution	10 μV		
Voltage AC	Maximum voltage	1000 V		
	Accuracy	±(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	±(0.2% + 2)
	Maximum resolution	0.01 μΑ
Current AC	Maximum amps	10 A (20 A for 30 seconds maximum)
	Amps accuracy	±(1.0% + 2) True RMS
	Maximum resolution	0.1 μΑ
Resistance	Maximum resistance	50 ΜΩ
	Accuracy	±(0.2% + 1)
	Maximum resolution	0.1 Ω
Capacitance	Maximum capacitance	9,999 μF
	accuracy	±(1% + 2)
	Maximum resolution	0.01 nF
Frequency	Maximum frequency	200 kHz
	Accuracy	±(0.005% + 1)
	Maximum resolution	0.01 Hz
Duty cycle	Maximum duty cycle	99.9%
	Accuracy	±(0.2% per kHz + 0.1%)
	Maximum resolution	0.1%
Temperature measurement	-200.0 °C - 1090 °C -328.0 °F - 1994.0 °F excluding probe	



C – 260 °C F – 500 °F, 2.2 °C	C or 2% whichever is greater			
um				
tance	60.00 nS			
у	±(1.0% + 10)			
ım resolution	0.01 nS			
	3 V			
on	1 mV			
у	±(2% + 1)			
cy	Within ±(0.2% per kHz + 0.1%)			
Environmental Specifications				
−20 °C to + 55 °C				
-40 °C to + 60 °C				
0% – 90% (0 °C – 35 °C) 0% – 70% (35 °C – 55 °C)				
2000 m				
Safety Specifications				
EN 61010–1 to 1000 V CAT III, 600V CAT IV				
CE, CSA, RCM				
Mechanical and General Specifications				
201 x 98 x 52 mm (with holster)				
	ion Ey to + 55 °C to + 60 °C 0% (0 °C – 35 °C 0% (35 °C – 55 °C A, RCM			



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	