Fluke 87V Industrial Multimeter

For industrial productivity



The Fluke 87V has measurement functions, troubleshooting features, resolution and accuracy to solve problems on motor drives, in-plant automation, power distribution and electro-mechanical equipment.

- Unique function for accurate voltage and frequency measurements on adjustable speed motor drives and electrically noisy equipment (87V and 28 II Ex)
- · Large digit display with bright two level backlight makes the 87V significantly easier to read
- Measure 20 A for up to 30 seconds, 10 A continuously
- · Optional magnetic hanger for easy setup and viewing while freeing your hands for other tasks (TPAK)
- Expanded capacitance range to 10,000 μF

Electrical safety

All inputs are protected to CAT III 1000 V and CAT IV 600 V. They can withstand impulses in excess of 8,000 V to help protect you from arc blast resulting from surges and spikes.

Available in intrinsically safe version as the Fluke 28 II Ex.

Also available as 83V average responding multimeter, see below for specifications.

















Features

Features	28 II Ex	87V	83V
Peak capture to record transients as fast as 250 µs	•	•	
Measure up to 1000 V ac and dc	•	•	•
Auto and manual ranging for maximum flexibility	•	•	•
Analog bargraph	•	•	•
Frequency to 200 kHz and % duty cycle	•	•	•
Min/Max and average recording to capture variations automatically	•	•	•
Relative mode to remove test lead resistance from low ohms measurements	•	•	•
Access door for fast battery changes without breaking the calibration seal	•	•	•
Limited lifetime warranty	Three-year	•	•

Specifications

			Basic accuracy	
Functions	Range and resolution	87V	83V	
DC volts	600.0 mV, 6.000 V, 60.00 V, 600.0 V, 1000 V	0.05 %	0.1 %	
AC volts	600.0 mV, 6.000 V, 60.00 V, 600.0 V, 1000 V	0.7 % (true-rms)	0.5 %	
DC current	600.0 μA, 6000 μA, 60.00 μA, 600.0 mA, 6.000 A, 10.00 A	0.2 %	0.4 %	
AC current	600.0 μÅ, 6000 μÅ, 60.00 μÅ, 600.0 mÅ, 6.000 Å, 10.00 Å	1.0 % (true-rms)	1.2 %	
Temperature (excl. probe)	-200 °C to 1090 °C (-328 °F to 1994 °F)	1.0 %	-	
80BK Temperature Probe	-40 °C to 260 °C (-40 °F to 500 °F)	2.2 °C or 2 %	_	
Resistance	600.0Ω , $6.000 kΩ$, $60.00 kΩ$, $600.0 kΩ$, $6.000 MΩ$, $50.00 MΩ$	0.2 %	0.4 %	
Capacitance	10.00 nF, 100.0 nF, 1.000 μF, 10.00 μF, 100.0 μF, 9,999 μF	1.0 %	1.0 %	
Frequency	199.99 Hz, 1.9999 kHz, 19.999 kHz, 199.99 kHz	0.005 %	0.005 %	

Battery life: 400 hours typical with backlight off. Size (LxWxD): 201 mm x 98 mm x 52 mm (7.9 in x 3.8 in x 2 in). Weight: 355 g (22 oz).

Ordering information

Included accessories	Models	
Test leads, alligator clips, holster, batteries (installed), temperature probe (87V only), users manual on CD, operator's guide.	FLUKE-87-5	Industrial True-rms Multimeter with Temperature
	FLUKE-83-5	Industrial Multimeter
	FLUKE-28 II Ex	Intrinsically Safe True-rms Multimeter
	FLUKE-87-5/E2	Industrial Electrician's Combo Kit

Recommended accessories





Magnetic Meter Hanger See page 64

SureGrip™ Industrial Test Lead Set See page 57



TL175 TwistGuard™ Test Leads See page 56

AC Current Clamp See page 62





Small Soft Case

Extreme Case



AC285 SureGrip™ Alligator Clips See page 59



SureGrip™ Silicone Insulated Test Leads See page 59

Recommended kits



Fluke 87V/E2 Industrial Electrician's Combo Kit

- · Industrial multimeter
- 1.5 m silicone test leads
- Removable probes with 4 mm of exposed metal for use on industrial circuits
- Retractable long reach alligator clips
- Meter hanging accessory
- Type K temperature probe

Soft case

Check price and availability at www.fluke.com/wtb