

# Fluke 83V, 87V & 87V MAX Digital Multimeters



Fluke 87V MAX



## Performance and accuracy for maximum industrial productivity

Fluke 80-V Series is equipped with improved measurement functions, troubleshooting features, resolution and accuracy to solve more problems on motor drives, in-plant automation, power distribution, and electro-mechanical equipment.

The Fluke 87V and new 87V Max offer 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.

## Electrical safety

All inputs are protected to CAT III 1000 V and CAT IV 600 V. They can withstand impulses in excess of 8000 V to help protect you from arc blast resulting from surges and spikes. Limited lifetime manufacturer's warranty.



Fluke 87V



Fluke 83V

## Recommended Accessories

- TPAK** Magnetic Meter Hanger
- TL220** SureGrip™ Industrial Test Lead Set
- TL175** TwistGuard™ Test Leads
- TL224** SureGrip™ Silicone Insulated Test Leads
- AC285** SureGrip™ Alligator Clips
- i400** AC Current Clamp
- C37XT** EVA Foam Hard Case
- CXT80** Extreme Case

Features	83V	87V	87V MAX
True-RMS AC voltage and current for accurate measurements on non-linear signals	–	•	•
Selectable filter for accurate voltage and frequency measurements on motor drives	–	•	•
6000 counts, 3-3/4 digits	•	•	•
4-1/2 digit mode for precise measurements (20000 counts)	–	•	•
Measure up to 10 A, 20 A for up to 30 seconds	•	•	•
Built in thermometer lets you carry one less tool (TC probe included)	–	•	•
Frequency to 200 kHz and % duty cycle	•	•	•
Resistance, continuity and diode test	•	•	•
10000 µF capacitance range for components and motor caps	•	•	•
Min/Max/Average recording with Min/Max Alert to capture variations automatically	•	•	•
Battery Life with Backlight off		400 hours	800 hours

Functions	Range	Basic Accuracy		
		83V	87V	87V MAX
DC volts	600.0 mV, 6.00 V, 60.00 V, 600.0 V, 1000 V	0.1%		0.05%
AC volts	600.0 mV, 6.00 V, 60.00 V, 600.0 V, 1000 V	0.5%		0.7% (True-RMS)
DC current	600.0 µA, 6000 µA, 60.00 mA, 600.0 mA, 6.00 A, 10.00 A	0.4%		0.2%
AC current	600.0 µA, 6000 µA, 60.00 mA, 600.0 mA, 6.00 A, 10.00 A	1.2%		1.0% (True-RMS)
Temperature (excl. probe)	-200° C to 1090° C (-328° F to 1994° F)	–		1.0%
Temperature Probe	-40° C to 260° C (-40° F to 500° F)	–	2.2° C (35.96° F) or 2%	
Resistance	600.0 Ω, 6.00 kΩ, 60.00 kΩ, 600.0 kΩ, 6.00 MΩ, 50.00 MΩ	0.4%		0.2%
Capacitance	10.00 nF, 100.0 nF, 1.00 µF, 10.00 µF, 100.0 µF, 9999 µF	1.0%		1.0%
Frequency	199.99 Hz, 1.99 kHz, 19.99 kHz, 199.99 kHz	0.005%		0.005%

## Recommended Kits

**Fluke 87V/E2 Industrial Electrician's Combo Kit**

## Included Accessories

TL175 Test Leads, AC175 Alligator Clips, Yellow Holster (H80M excl. TPAK), 80BK-A Temperature Probe (87V/MAX only), 9 V Battery Installed (83V and 87V Only), Three AA Batteries Installed (87V MAX only), User Manual and Technical Notes.

## Ordering Information

- FLUKE-83V** Industrial Multimeter
- FLUKE-87V** True RMS Industrial Multimeter
- FLUKE-87V/E2** Industrial Electrician Combo Kit
- FLUKE-87V-MAX** MAX True RMS Industrial Multimeter
- FLUKE-87V/IMS** Industrial Multimeter Service Kit

Digital Multimeters

