

TECHNICAL DATA

Fluke 83V Industrial Multimeter



Key features

The Fluke 83V digital multimeter delivers the accuracy and advanced troubleshooting capabilities needed when productivity is on the line and problems have to be solved fast.

- Average responding multimeter
- 6000 counts, 3-3/4 digits
- Measure up to 1000 V AC and DC

Product overview: Fluke 83V Industrial Multimeter

Fluke 83V Digital Multimeter

The Best Techs Use the Best Tools

The Fluke 83V Industrial Multimeter can be used from the control room to the plant floor. With its accuracy and troubleshooting capabilities, the Fluke 83V Industrial Multimeter works when you need it, even in loud, high energy, and high altitude locations.

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

Other useful features

Optional magnetic hanger for easy set-up and viewing while freeing your hands for other tasks

- Large digit display with bright, two-level backlight makes the 83V significantly easier to read than older models
- 6000 counts, 3-3/4 digits
- Measure up to 1000 V AC and DC
- Measure up to 10 A, 20 A for up to 30 seconds
- Frequency to 200 kHz and % duty cycle
- Resistance, continuity and diode test
- 10,000 μ F capacitance range for components and motor caps
- Min/Max-Average recording with Min/Max Alert to capture variations automatically

Applications

For industrial electricians, Industrial use

Includes

- TL75 Test Leads
- AC175 Alligator Clips
- Holster
- 9V Battery (Installed)

Specifications: Fluke 83V Industrial Multimeter

Specifications		
Voltage DC	Maximum voltage	1000 V
	Accuracy	$\pm(0.1\% + 1)$
	Maximum resolution	100 μ V
Voltage AC	Maximum voltage	1000 V
	Accuracy	$\pm(0.5\% + 2)$
	Maximum resolution	0.1 mV
Current DC	Maximum amps	10 A (20 A for 30 seconds maximum)
	Amps accuracy	$\pm(0.4\% + 2)$
	Maximum resolution	0.01 mA
Current AC	Maximum amps	10 A (20 A for 30 seconds maximum)
	Amps accuracy	$\pm(1.2\% + 2)$
	Maximum resolution	0.1 μ A
Resistance	Maximum resistance	50 M Ω
	Accuracy	$\pm(0.4\% + 1)$
	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%
Conductance	Maximum conductance	60.00 nS
	Accuracy	$\pm(1.0\% + 10)$
	Maximum resolution	0.01 nS
Diode	Range	3 V
	Resolution	1 mV
	Accuracy	$\pm(2\% + 1)$
Duty cycle range	Accuracy	within $\pm(0.2\% \text{ per kHz} + 0.1\%)$
Environmental Specifications		
Operating temperature	-20°C to +55°C	
Storage temperature	-40°C to +60°C	
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	CSA, TÜV	
Mechanical and General Specifications		
Display	Digital	6000 counts updates 4/sec
	Analog	32 segments, updates 40/sec
	Frequency	19,999 counts, updates 3/sec at > 10 Hz
Size	201 x 98 x 52 mm (with holster)	
Weight	355 g	
Weigh with holster and flex-stand	624 g	
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	

Ordering information



Fluke 83V

Fluke 83V Average Responding Industrial Multimeter

Includes:

- TL75 Test Leads
- AC175 Alligator Clips
- Holster
- 9V Battery (Installed)



Fluke. *Keeping your world up and running.®*

Fluke (UK) Ltd.
52 Hurricane Way
Norwich, Norfolk
NR6 6JB
United Kingdom
Tel.: +44 (0)20 7942 0708
E-mail: cs.uk@fluke.com
www.fluke.com/en-gb

©2026 Fluke Corporation. All rights reserved.
Data subject to alteration without notice.
03/2026

**Modification of this document is not permitted
without written permission from Fluke
Corporation.**