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Data Sheet

August 14, 2026

FLUKE

Fluke 83V Industrial Multimeter, 6000 counts

Fluke 83V Average Responding Industrial Multimeter The Fluke 83V is an average-responding industrial handheld DMM in the 80 SeriesVfamily rated CAT III 1000 V / CAT IV 600 V. Official Fluke 83V specifications list DC voltage accuracy of plus or minus (0.1 percent plus 1), AC voltage plus or minus (0.5 percent plus 2), current to 10 A, resistance to 50 Mohm, capacitance to 9999 uF, and frequency to 200 kHz without true-RMS or built-in thermometer features of the 87V. Industrial electrical troubleshooting on primarily sinusoidal signals, plant maintenance voltage current resistance and capacitance checks, frequency and duty-cycle measurements, and everyday CAT III/IV field service. The Fluke 83V is an average-responding industrial handheld DMM in the 80 SeriesVfamily rated CAT III 1000 V / CAT IV 600 V. Official Fluke 83V specifications list DC voltage accuracy of plus or minus (0.1 percent plus 1), AC voltage plus or minus (0.5 percent plus 2), current to 10 A, resistance to 50 Mohm, capacitance to 9999 uF, and frequency to 200 kHz without true-RMS or built-in thermometer features of the 87V. Industrial electrical troubleshooting on primarily sinusoidal signals, plant maintenance voltage current resistance and capacitance checks, frequency and duty-cycle measurements, and everyday CAT III/IV field service.



MODEL

Fluke 83V

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

83V

LISTING

<https://aumictechlabs.com/products/83v-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 83V Industrial Multimeter delivers precision electrical measurement across demanding industrial environments. Its 6000-count digital display updates 4/sec, paired with a 32-segment analog bargraph refreshing at 40/sec, enabling technicians to diagnose faults in control rooms, plant floors, and high-altitude installations. The instrument combines broad measurement capability - from microvolts to kilovolts, microamps to 20 A impulse - with safety features designed to withstand transient overvoltages exceeding 8,000 V.

Technical Specifications

Voltage & Current DC voltage: 600.0 mV to 1000 V with $\pm(0.1\% + 1)$ accuracy; 100 μ V resolution AC voltage: 600.0 mV to 1000 V with $\pm(0.5\% + 2)$ accuracy; 0.1 mV resolution (average responding, RMS indicating) DC current: 600.0 μ A to 10.00 A (20 A for up to 30 seconds); $\pm(0.4\% + 2)$ accuracy; 0.01 mA resolution AC current: 600.0 μ A to 10.00 A (20 A for up to 30 seconds); $\pm(1.2\% + 2)$ accuracy; 0.1 μ A resolution

Passive Components & Frequency Resistance: 50 M Ω maximum; $\pm(0.4\% + 1)$ accuracy; 0.1 Ω resolution Capacitance: 9,999 μ F maximum; $\pm(1\% + 2)$ accuracy; 0.01 nF resolution Frequency: 200 kHz maximum; $\pm(0.005\% + 1)$ accuracy; 0.01 Hz resolution (frequency display: 19,999 counts, updates 3/sec above 10 Hz) Conductance: 60.00 nS maximum; $\pm(1.0\% + 10)$ accuracy; 0.01 nS resolution Duty cycle: 99.9% maximum; $\pm(0.2\% \text{ per kHz} + 0.1\%)$ accuracy; 0.1% resolution Diode test: 3 V range; $\pm(2\% + 1)$ accuracy; 1 mV resolution

Key Features Auto and manual ranging for adaptive measurement Min/Max/Average recording with alert capability for transient event capture Relative mode for test lead resistance elimination in low-ohm circuits Touch Hold function for noise-free stable reading acquisition Input Alert audible warning against jack misconnection Bright white, two-level backlit display and keypad for high-visibility operation Selectable Sleep Mode for extended battery operation EN 61010-1 compliance: CAT III to 1000 V, CAT IV to 600 V Impulse withstand rating exceeding 8,000 V for surge protection

Typical Applications Control room diagnostics, plant floor troubleshooting, high-altitude field service, industrial circuit analysis, preventive maintenance testing.

83V Characteristics / Specifications

PARAMETER	VALUE
DC Voltage Maximum	1000 V
DC Voltage Accuracy	plus or minus (0.1 percent plus 1)
DC Voltage Maximum Resolution	100 uV
AC Voltage Maximum	1000 V
AC Voltage Accuracy	plus or minus (0.5 percent plus 2)
AC Voltage Maximum Resolution	0.1 mV
DC Current Maximum	10 A (20 A for 30 seconds maximum)
DC Current Accuracy	plus or minus (0.4 percent plus 2)
DC Current Maximum Resolution	0.01 mA
AC Current Maximum	10 A (20 A for 30 seconds maximum)
AC Current Accuracy	plus or minus (1.2 percent plus 2)
AC Current Maximum Resolution	0.1 uA
Resistance Maximum	50 Mohm
Resistance Accuracy	plus or minus (0.4 percent plus 1)
Resistance Maximum Resolution	0.1 ohm
Capacitance Maximum	9999 uF
Capacitance Accuracy	plus or minus (1 percent plus 2)
Capacitance Maximum Resolution	0.01 nF
Frequency Maximum	200 kHz
Frequency Accuracy	plus or minus (0.005 percent plus 1)
Frequency Maximum Resolution	0.01 Hz
Duty Cycle Maximum	99.9 percent
Duty Cycle Accuracy	plus or minus (0.2 percent per kHz plus 0.1 percent)
Conductance Maximum	60.00 nS
Diode Test Range	3 V

PARAMETER	VALUE
Diode Test Accuracy	plus or minus (2 percent plus 1)
Display Counts	6000 updates 4/sec
Overvoltage Category	CAT III 1000 V CAT IV 600 V
Size With Holster	201 × 98 × 52 mm
Weight	355 g
Battery Life Typical	400 hours alkaline backlight off
Operating Temperature	minus 20 C to plus 55 C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	minus 20 C to plus 55 C
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Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

specifications list DC voltage accuracy of plus or minus (0.1 percent plus 1), AC voltage plus or minus (0.5 percent plus 2), current to 10 A, resistance to 50 Mohm, capacitance to 9999 uF, and frequency to 200 kHz without true-RMS or built-in thermometer features of the 87V.

Applications

Industrial electrical troubleshooting on primarily sinusoidal signals, plant maintenance voltage current resistance and capacitance checks, frequency and duty-cycle measurements, and everyday CAT III/IV field service.

Key Features

Average-responding AC voltage and current

Min/Max/Average recording

6000-count display with analog bar graph

Frequency to 200 kHz and percent duty cycle

Rugged holster with limited lifetime warranty class

Technical Specifications

Technical Specifications

PARAMETER	VALUE
DC Voltage Maximum	1000 V
DC Voltage Accuracy	plus or minus (0.1 percent plus 1)
DC Voltage Maximum Resolution	100 uV
AC Voltage Maximum	1000 V
AC Voltage Accuracy	plus or minus (0.5 percent plus 2)
AC Voltage Maximum Resolution	0.1 mV
DC Current Maximum	10 A (20 A for 30 seconds maximum)
DC Current Accuracy	plus or minus (0.4 percent plus 2)
DC Current Maximum Resolution	0.01 mA
AC Current Maximum	10 A (20 A for 30 seconds maximum)
AC Current Accuracy	plus or minus (1.2 percent plus 2)
AC Current Maximum Resolution	0.1 uA
Resistance Maximum	50 Mohm
Resistance Accuracy	plus or minus (0.4 percent plus 1)
Resistance Maximum Resolution	0.1 ohm
Capacitance Maximum	9999 uF
Capacitance Accuracy	plus or minus (1 percent plus 2)
Capacitance Maximum Resolution	0.01 nF
Frequency Maximum	200 kHz

PARAMETER	VALUE
Frequency Accuracy	plus or minus (0.005 percent plus 1)
Frequency Maximum Resolution	0.01 Hz
Duty Cycle Maximum	99.9 percent
Duty Cycle Accuracy	plus or minus (0.2 percent per kHz plus 0.1 percent)
Conductance Maximum	60.00 nS
Diode Test Range	3 V
Diode Test Accuracy	plus or minus (2 percent plus 1)
Display Counts	6000 updates 4/sec
Overvoltage Category	CAT III 1000 V CAT IV 600 V
Size With Holster	201 x 98 x 52 mm
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Battery Life Typical	400 hours alkaline backlight off
Operating Temperature	minus 20 C to plus 55 C

Notes

From Fluke 83V Average Responding Industrial Multimeter official product specifications and 83V/87V detailed specification sheets. Accuracies are plus or minus (percent of reading plus counts) for one year at 18 C to 28 C.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.