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Data Sheet

August 14, 2026

FLUKE

Fluke 8808A 120V Digital Precision Multimeter

The Fluke 8808A is a 5.5-digit dual-display bench DMM with basicVDC accuracy of 0.015 percent plus 0.003 percent of range. Official Fluke 8808A specifications list DCV from 200 mV to 1000 V, ACV to 750 V from 20 Hz to 100 kHz, resistance to 100 Mohm with 2×4-wire ohms, current to 10 A, frequency to 1 MHz, and RS-232 with Fluke 45 remote-command emulation. Precision bench voltage current resistance measurements, dual-parameter monitoring of the same signal, production pass/fail limit compare, and PC automated test via RS-232. Advanced Functions: limit compare pass fail Interfaces: RS-232 USB with optional adapter Programming Modes: Simplified ASCII Fluke 45 emulation From Fluke 8808A Digital Multimeter official product specifications and bench multimeter brochure comparison tables. Accuracies are one-year class summary values; use the users/calibration manual for range-by-range detail.



MODEL

Fluke 8808A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

8808A

LISTING

<https://aumictechlabs.com/products/8808a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 8808A 120V is a 5.5-digit benchtop digital multimeter engineered for precision measurement across voltage, current, resistance, and frequency in demanding test environments. Its dual vacuum fluorescent display enables simultaneous monitoring of two parameters from a single test connection, while dedicated setup buttons and limit compare mode streamline operation for pass/fail validation. Purpose-built for production line testing, quality control, R&D, and calibration work, the 8808A delivers true RMS measurements, 4-wire resistance capability,

and specialized low-current measurement resolution down to 100 nA. Technical Specifications
Resolution: 5.5 digits Basic DC Voltage Accuracy: 0.01% or 0.015% True RMS: Yes Display: Dual
vacuum fluorescent display (VFD) DC Voltage: 200 mV to 1000 V AC Voltage: 200 mV to 750 V DC
Current: 200 μ A to 10 A AC Current: 20 mA to 10 A Resistance (2-wire and 4-wire): 200 Ω to 100
M Ω Frequency: 20 Hz to 1 MHz DC Leakage Current: Resolution to 100 nA Math Functions: dB,
dBm Measurement Rates: 2.5, 20, and 100 samples/second Safety Category Ratings: CAT I 1000
V, CAT II 600 V, CAT III 300 V Key Features Patented 2 $\times$ 4 wire resistance measurement using only
two leads Six programmable front-panel setup buttons for fast configuration Built-in limit compare
mode with pass/fail enunciators Continuity and diode testing Sensitive input technique for non-
loading low-current measurement Interfaces & Software RS-232 and USB (optional adapter)
connectivity Simplified ASCII and Fluke 45 remote command emulation programming Included
FlukeView® software for data documentation, storage, and analysis Physical & Power Dimensions:
88 $\times$ 217 $\times$ 297 mm Weight: 2.1 kg Power: 120 V AC

8808A Characteristics / Specifications

PARAMETER	VALUE
Display Type	VFD multi segment dual readings
Resolution	5.5 digits
DCV Ranges	200 mV to 1000 V
DCV Maximum Resolution	1 uV
DCV Accuracy	0.015 plus 0.003 (percent reading plus percent of range)
ACV Ranges	200 mV to 750 V
ACV Maximum Resolution	1 uV
ACV Accuracy	0.2 plus 0.05 (percent reading plus percent of range)
ACV Frequency Bandwidth	20 Hz to 100 kHz
Resistance Ranges	200 ohm to 100 Mohm
Resistance Maximum Resolution	1 mohm
Resistance Accuracy	0.02 plus 0.003 (percent reading plus percent of range)
Four Wire Ohms	2×4 wire yes
DCI Ranges	200 uA to 10 A
DCI Maximum Resolution	1 nA
DCI Accuracy	0.02 plus 0.005 (percent reading plus percent of range)
ACI Ranges	20 mA to 10 A
ACI Maximum Resolution	100 uA
ACI Accuracy	0.3 plus 0.06 (percent reading plus percent of range)
ACI Frequency Bandwidth	20 Hz to 2 kHz
Frequency Ranges	20 Hz to 1 MHz
Frequency Maximum Resolution	0.1 mHz
Frequency Accuracy	0.01 percent
Math Functions	dB dBm
Advanced Functions	limit compare pass fail

PARAMETER	VALUE
Interfaces	RS-232 USB with optional adapter
Programming Modes	Simplified ASCII Fluke 45 emulation
Weight	2.1 kg
Size HxWxD	88 mm x 217 mm x 297 mm
Bandwidth	20 Hz to 100 kHz

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 DCV from 200 mV to 1000 V, ACV to 750 V from 20 Hz to 100 kHz, resistance to 100 Mohm with 2x4-wire ohms, current to 10 A, frequency to 1 MHz, and RS-232 with Fluke 45 remote-command emulation.

Applications

Precision bench voltage current resistance measurements, dual-parameter monitoring of the same signal, production pass/fail limit compare, and PC automated test via RS-232.

Key Features

5.5 digit dual VFD display

BasicVDC accuracy 0.015 percent class

2x4-wire ohms measurement

Dedicated DC leakage current measurement mode

Hi/Lo limit compare with pass fail indicators

Technical Specifications

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Display Type	VFD multi segment dual readings
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DCV Ranges	200 mV to 1000 V
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Resistance Ranges	200 ohm to 100 Mohm
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DCI Ranges	200 uA to 10 A
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ACI Maximum Resolution	100 uA
ACI Accuracy	0.3 plus 0.06 (percent reading plus percent of range)
ACI Frequency Bandwidth	20 Hz to 2 kHz

PARAMETER	VALUE
Frequency Ranges	20 Hz to 1 MHz
Frequency Maximum Resolution	0.1 mHz
Frequency Accuracy	0.01 percent
Math Functions	dB dBm
Advanced Functions	limit compare pass fail
Interfaces	RS-232 USB with optional adapter
Programming Modes	Simplified ASCII Fluke 45 emulation
Weight	2.1 kg
Size HxWxD	88 mm x 217 mm x 297 mm

Notes
From Fluke 8808A Digital Multimeter official product specifications and bench multimeter brochure comparison tables. Accuracies are one-year class summary values; use the users/calibration manual for range-by-range detail.

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

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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.