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Data Sheet

August 14, 2026

FLUKE

Fluke 8120A Digital Multimeter

The Fluke 8120A is a Fluke digital multimeter in the 8100-series benchtop/system family. OEM Fluke 8100 literature positions these meters for precision voltage current and resistance measurements with remote interface options. Benchtop precision DMM measurements, system DMM applications with remote control, and calibration support workflows. Closed case calibration path class on series Instrument Family: Fluke 8120A digital multimeter Benchtop precision DMM measurements, system DMM applications with remote control, and calibration support workflows. Closed case calibration path class on series Instrument Family: Fluke 8120A digital multimeter Functions: VDC VAC current resistance class



MODEL

Fluke 8120A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

8120A

LISTING

<https://aumictechlabs.com/products/8120a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 8120A Digital Multimeter delivers precision electrical measurements across DC and AC voltage, DC current, and resistance applications. Built for field technicians and laboratory use, this 4.5 digit LED display instrument combines high input impedance with overload protection rated to 1000 V DC and transient peaks to 6000 V. Operation spans 0°C to 50°C with dual power options: standard 115 V / 230 V AC at 50/60 Hz, or battery backup for portable deployment. Technical Specifications Voltage Measurement DC: 0.1 mV to 1000 V at $\pm(0.1\% + 1 \text{ count})$ accuracy AC: 0.1 mV to 750 V at $\pm(0.2\% + 5 \text{ counts})$ accuracy Current Measurement DC: 100 μA to 1000 mA Input Impedance: 10 M Ω Display: 4.5 digit LED Overload Protection: 1000 V DC with transient capability

to 6000 V peak Environmental Operating: 0°C to 50°C Storage: -20°C to 60°C Physical Dimensions: 9.2 in × 3.7 in × 10.7 in Weight: 5.7 lbs Key Features High input impedance (10 MΩ) minimizes loading errors on sensitive circuits Dual AC power input (115 V / 230 V, 50/60 Hz) with battery option for field independence Aggressive overload protection: 1000 V DC continuous, 6000 V peak transient rated Optional printer output for data logging UL, CSA, IEC, and EN safety certifications Typical Applications Electrical troubleshooting in HVAC systems, industrial control circuits, power distribution networks, and general electronics service. Laboratory verification of power supplies, circuit boards, and sensor outputs where high impedance input is required. Compatibility & Integration Operates from standard wall power or battery supply. Optional printer interface available for automated measurement documentation. Calibration services traceable to NIST standards support periodic accuracy verification.

8120A Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	Fluke 8120A digital multimeter
Functions	VDC VAC current resistance class
Display	digital
Form Factor	benchtop
AC Powered	yes
Remote Interface Class	GPIB class on series
Ranging	auto and manual class
Input Impedance Class	10 MOhm class DC volts
Operating Temperature Class	laboratory
Series Family	Fluke 8100
True RMS Path	configuration dependent 4 Wire Ohms Path: configuration dependent
Reading Rate Class	selectable class
Warmup	to rated accuracy class
Calibration	closed case class on series
Maximum Input Class	per faceplate
Guard Terminal Class	yes on precision DMMs
Weight Class	benchtop
Size Class	half or full rack class
Math Functions Class	configuration dependent
Benchtop System DMM	yes
Precision Measurement Class	yes
Operating temperature	Class: laboratory

8120A Specifications

PARAMETER	VALUE
Fluke 8120A Digital Multimeter Class	Overview
Benchtop/system digital multimeter	Multi function V/I/ohms
Technical Specifications	Instrument Family: Fluke 8120A digital multimeter

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: laboratory
Operating Temperature	Class: laboratory
Operating Temperature Class	laboratory
Series Family	Fluke 8100
True RMS Path	configuration dependent 4 Wire Ohms Path: configuration dependent
Reading Rate Class	selectable class
Warmup	to rated accuracy class
Calibration	closed case class on series
Maximum Input Class	per faceplate
Guard Terminal Class	yes on precision DMMs
Weight Class	benchtop
Size Class	half or full rack class
Math Functions Class	configuration dependent
Benchtop System DMM	yes
Precision Measurement Class	yes Notes Identity and family capability rows from Fluke 8120A / 8100-series literature. Confirm exact digit count ranges and accuracy on the operating manual.

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	
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Notes	
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ranges and accuracy on the operating manual.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.