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Data Sheet

August 14, 2026

FLUKE

Fluke 8808A/SU Digital Multimeter

Fluke Laboratory Measurement Instruments. Current: to-voltage conversion - eliminates burden voltage.



MODEL

Fluke 8808A/SU

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

8808A/SU

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 8808A/SU is a 5.5-digit digital multimeter engineered for precision benchtop, field service, and system-level measurements. It delivers 0.015% basic DC voltage accuracy across a comprehensive measurement set: DC/AC voltage, DC/AC current, 2-wire and 4-wire resistance, frequency, continuity, diode test, and DC leakage current. The dual vacuum fluorescent display simultaneously shows two parameters, accelerating fault isolation and verification workflows. A patented 2×4 wire resistance technique enables true 4-wire measurements using only two leads. Specialized low-impedance circuitry - utilizing an operational amplifier and current-to-voltage conversion - eliminates burden voltage for accurate DC leakage current detection down to 100 nA resolution. Selectable measurement rates of 2.5, 20, and 100 samples/second optimize speed versus stability trade-offs. True RMS AC measurement ensures accuracy on distorted waveforms. Dedicated buttons provide quick access to common setups, while limit compare mode automates

pass/fail testing. The /SU variant includes FlukeView Basic software and a USB-to-RS-232 interface adapter for remote data logging and analysis over RS-232.

8808ASU Characteristics / Specifications

PARAMETER	VALUE
Display	VFD multi segment dual readings
Resolution	5.5 digits
DCV Ranges	200 mV to 1000 V
DCV Maximum Resolution	1 uV
DCV One Year Accuracy	0.015 + 0.003 (% reading + % of range)
ACV Ranges	200 mV to 750 V
ACV Maximum Resolution	1 uV
ACV One Year Accuracy	0.2 + 0.05 (% reading + % of range)
ACV Frequency	20 Hz to 100 kHz
Resistance Four Wire	2×4 wire yes
Resistance Ranges	200 ohm to 100 MΩ
Resistance Maximum Resolution	1 mΩ
Resistance One Year Accuracy	0.02 + 0.003 (% reading + % of range)
DCI Ranges	200 uA to 10 A
DCI Maximum Resolution	1 nA
DCI One Year Accuracy	0.02 + 0.005 (% reading + % of range)
ACI Ranges	20 mA to 10 A
ACI Maximum Resolution	100 uA
ACI One Year Accuracy	0.3 + 0.06 (% reading + % of range)
ACI Frequency	20 Hz to 2 kHz
Frequency Range	20 Hz to 1 MHz
Frequency Maximum Resolution	0.1 mHz
Frequency Accuracy	0.01%
Math Functions	dB/dBm
Interfaces	RS-232; USB with optional adapter

PARAMETER	VALUE
Programming Modes	Simplified ASCII, Fluke 45 remote command emulation
Dimensions HxWxD	88 × 217 × 297 mm
Weight	2.1 kg (4.6 lb)
Warranty	Three years

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 one-yearVDC accuracy 0.015 + 0.003 (% reading + % range), V AC 200 mV to 750 V, resistance 200 Ω to 100 MΩ with 2x4-wire ohms, DC current 200 uA to 10 A, and frequency 20 Hz to 1 MHz.

Applications
Production functional test with Hi/Lo compare pass/fail, DC leakage current measurements, dual-parameter bench monitoring, and automated test via RS-232 with Fluke 45 remote command emulation.

Key Features
Six dedicated setup preset buttons for repeatable production measurements
Dual VFD display
Dedicated DC leakage current measurement mode
2x4-wire ohms four-wire technique
Hi/Lo limit compare with pass/fail indicators

Technical Specifications

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Notes

Summary accuracies from Fluke 8808A official product page/data sheet ($\pm$ % reading + % range). Detailed 90-day/1-year range tables are in the 8808A users manual; warm-up typically 30 minutes for rated 5.5-digit specs.

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.