

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

FLUKE

Fluke 8845A 6.5 Digit Precision Multimeter

Fluke 8845A 6.5 Digit Precision Digital Multimeter The Fluke 8845A is a 6.5-digit bench/system DMM with dual VFD display, front and rear inputs, and 2×4-wire ohms. Fluke brochure summary specs rate basic one-year VDC accuracy at 0.0035% + 0.0005% of range, V AC to 750 V, resistance to 100 MΩ, and DC/AC current to 10 A, with TrendPlot, statistics/histogram, and Fluke 45 plus Agilent 34401A emulation. Precision bench voltage/current/resistance measurements, automated manufacturing test via RS-232 IEEE-488.2 Ethernet, dual-parameter monitoring on one connection, and drift/intermittent analysis with TrendPlot. The Fluke 8845A is a 6.5-digit bench/system DMM with dual VFD display, front and rear inputs, and 2×4-wire ohms. Fluke brochure summary specs rate basic one-year VDC accuracy at 0.0035% + 0.0005% of range, V AC to 750 V, resistance to 100 MΩ, and DC/AC current to 10 A, with TrendPlot, statistics/histogram, and Fluke 45 plus Agilent 34401A emulation. Precision bench voltage/current/resistance measurements, automated manufacturing test via RS-232 IEEE-488.2 Ethernet, dual-parameter monitoring on one connection, and drift/intermittent analysis with TrendPlot.



MODEL

Fluke 8845A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

8845A

LISTING

<https://aumictechlabs.com/products/8845a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 8845A is a 6.5-digit precision multimeter engineered for calibration, research, and development environments requiring high-accuracy electrical measurements. It delivers DC

voltage accuracy to 0.0024% over one year and measures voltage, current, resistance, frequency, and period across wide dynamic ranges. The instrument combines benchtop usability with systems integration capability, featuring dual-display simultaneous measurement, graphical analysis modes, and multiple connectivity options for seamless integration into automated test systems.

Technical Specifications

Measurement Resolution & Accuracy 6.5-digit resolution DC voltage accuracy: 0.0024% (1 year) VFD dot matrix display DC Current Range: 100 μ A to 10 A Resolution: 100 pA Resistance Range: 10 Ω to 1 G Ω Resolution: 10 $\mu\Omega$ Patented 2 $\times$ 4 ohms 4-wire measurement with split terminal jacks enables precision 4-wire resistance measurements using two leads AC Voltage, AC Current, Frequency, and Period Full measurement capability included

Physical Dimensions: 88 mm H $\times$ 217 mm W $\times$ 297 mm D **Weight:** 3.6 kg

Key Features Dual-display mode measures two parameters simultaneously from a single test connection Trendplot™ paperless recorder identifies signal quality issues, drift, and intermittents Histogram analysis reveals stability and noise problems in analog circuits Real-time trend plot and histogram viewing via Analyze mode CAT I 1000 V and CAT II 600 V safety rating per IEC 61010-1 2000-1 and ANSI/ISA-S82.01-1994 Interfaces & Integration Serial, IEEE-488, and Ethernet connectivity support system automation. Native emulation of Fluke 45 and Agilent 34401A instruments simplifies integration into existing test architectures. FlukeView® Forms Basic documentation software is included for measurement logging and analysis.

Typical Applications Calibration laboratories, product development, manufacturing test, and research settings where precision DC measurements and graphical signal analysis are critical.

8845A Characteristics / Specifications

PARAMETER	VALUE
Display Type	VFD dot matrix
Resolution	6.5 digits
DCV Ranges	100 mV to 1000 V
DCV Maximum Resolution	100 nV
DCV One Year Accuracy	0.0035 + 0.0005 (% measurement + % of range)
ACV Ranges	100 mV to 750 V
ACV Maximum Resolution	100 nV
ACV One Year Accuracy	0.06 + 0.03 (% measurement + % of range)
ACV Frequency Bandwidth	3 Hz to 300 kHz
Resistance Ranges	100 ohm to 100 MΩ
Resistance Maximum Resolution	100 uΩ
Resistance One Year Accuracy	0.010 + 0.001 (% measurement + % of range)
Four Wire Ohms	2×4 wire yes
DCI Ranges	100 uA to 10 A
DCI Maximum Resolution	100 pA
DCI One Year Accuracy	0.050 + 0.005 (% measurement + % of range)
ACI Ranges	10 mA to 10 A
ACI Maximum Resolution	10 uA
ACI One Year Accuracy	0.10 + 0.04 (% measurement + % of range)
ACI Frequency Bandwidth	3 Hz to 10 kHz
Frequency Period Range	3 Hz to 300 kHz
Frequency Maximum Resolution	1 uHz
Frequency Accuracy	0.01%
Continuity Diode Test	Yes
Reading Rate Systems Class	greater than 1000 readings/s

PARAMETER	VALUE
Interfaces	RS-232, IEEE-488.2, Ethernet, USB with optional adapter
Safety Category	CAT I 1000 V, CAT II 600 V
Dimensions HxWxD	88 mm x 217 mm x 297 mm
Weight	3.6 kg (8.0 lb)
Bandwidth	3 Hz to 300 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	
Specifications	
PARAMETER	VALUE
Display Type	VFD dot matrix
Resolution	6.5 digits
DCV Ranges	100 mV to 1000 V
DCV Maximum Resolution	100 nV
DCV One Year Accuracy	0.0035 + 0.0005 (% measurement + % of range)
ACV Ranges	100 mV to 750 V
ACV Maximum Resolution	100 nV
ACV One Year Accuracy	0.06 + 0.03 (% measurement + % of range)
ACV Frequency Bandwidth	3 Hz to 300 kHz
Resistance Ranges	100 ohm to 100 MΩ
Resistance Maximum Resolution	100 uΩ
Resistance One Year Accuracy	0.010 + 0.001 (% measurement + % of range)
Four Wire Ohms	2x4 wire yes
DCI Ranges	100 uA to 10 A
DCI Maximum Resolution	100 pA
DCI One Year Accuracy	0.050 + 0.005 (% measurement + % of range)
ACI Ranges	10 mA to 10 A
ACI Maximum Resolution	10 uA
ACI One Year Accuracy	0.10 + 0.04 (% measurement + % of range)
ACI Frequency Bandwidth	3 Hz to 10 kHz
Frequency Period Range	3 Hz to 300 kHz
Frequency Maximum Resolution	1 uHz
Frequency Accuracy	0.01%
Continuity Diode Test	Yes
Reading Rate Systems Class	greater than 1000 readings/s
Interfaces	RS-232, IEEE-488.2, Ethernet, USB with optional adapter

PARAMETER	VALUE
Safety Category	CAT I 1000 V, CAT II 600 V
Dimensions HxWxD	88 mm x 217 mm x 297 mm
Weight	3.6 kg (8.0 lb)

Notes
Summary one-year accuracies from Fluke 8845A/8846A Digital Multimeters brochure (2547535C_EN). Detailed range-by-range tables and NPLC noise adders are in the 8845A/8846A users/calibration manuals; faceplate and certificate remain authoritative for a specific unit.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

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