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Data Sheet

August 14, 2026

FLUKE

Fluke 8840A 5.5 digit System DMM

Fluke 8840A 5.5 Digit System Digital Multimeter The Fluke 8840A is a 5.5-digit bench/system DMM with basic one-year DC accuracy of 0.005%, closed-case calibration, and up to 100 readings/s. Instruction-manual Table 1-1 lists DCV ranges 200 mV to 1000 V, ohms 200 Ω to 20 M Ω with 2- or 4-wire, DCI to 2000 mA, optional true-RMS ACV (Option 09) 200 mV to 700 V from 20 Hz to 100 kHz, and optional IEEE-488 (Option 05). Bench precision DC and ohms measurements, automated system DMM via IEEE-488, high-speed production readings to 100/s, and true-RMS AC measurements when Option 09 is installed. The Fluke 8840A is a 5.5-digit bench/system DMM with basic one-year DC accuracy of 0.005%, closed-case calibration, and up to 100 readings/s. Instruction-manual Table 1-1 lists DCV ranges 200 mV to 1000 V, ohms 200 Ω to 20 M Ω with 2- or 4-wire, DCI to 2000 mA, optional true-RMS ACV (Option 09) 200 mV to 700 V from 20 Hz to 100 kHz, and optional IEEE-488 (Option 05). Bench precision DC and ohms measurements, automated system DMM via IEEE-488, high-speed production readings to 100/s, and true-RMS AC measurements when Option 09 is installed.



MODEL

Fluke 8840A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

8840A

LISTING

<https://aumictechlabs.com/products/8840a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 8840A is a 5.5-digit benchtop system digital multimeter engineered for precision measurement in laboratory and automated test environments. Its vacuum fluorescent display delivers clear readability, while selectable 2-wire and 4-wire resistance measurement modes

accommodate both standard and low-resistance applications. With basic DC accuracy of 0.005% over one year and configurable reading rates up to 100 readings per second, the 8840A supports high-throughput data acquisition without sacrificing measurement integrity. Front-panel fuse access and closed-case calibration simplify field maintenance, while built-in self-tests verify measurement reliability.

Technical Specifications

Display & Performance 5.5-digit vacuum fluorescent display Up to 100 readings per second (Fast mode); 20 readings/sec (Medium); adjustable Slow mode

Basic DC accuracy: 0.005% for 1 year

DC Voltage Ranges: 200 mV to 1000 V

Input resistance: 10 M Ω

Input protection: 1000 V dc or peak ac on any range

AC Voltage (Option -09 or -059) Ranges: 200 mV to 700 V

True RMS measurement Bandwidth: 20 Hz to 100 kHz

Input impedance: 1 M Ω shunted by <100 pF

Input protection: 700 V rms, 1000 V peak, or 2×10^7 V-Hz product (whichever is less)

Accuracy: 0.07% to 1.2% of reading + 100–300 counts (depending on frequency band)

DC Current Range: 2000 mA

Burden voltage: 1 V dc or rms ac typical at full scale

Protection: 2 A front-panel fuse (250 V) and 3 A internal fuse (600 V)

AC Current (Option -09 or -059) Ranges: 200 mA to 2000 mA

True RMS measurement Bandwidth: 20 Hz to 5 kHz

Protection: 2 A front-panel fuse (250 V) and 3 A internal fuse (600 V)

Accuracy: 0.4% to 2.0% of reading + 200 counts (depending on frequency band)

Resistance Ranges: 20 Ω to 20 M Ω 2-wire and 4-wire selectable measurement

Input protection: <6.5 V on 200 Ω –200 k Ω ranges; <13 V on 2000 k Ω and 20 M Ω ranges

Key Features Selectable reading rates optimize measurement speed versus noise trade-off Built-in self-tests ensure measurement validity Closed-case calibration minimizes downtime Accessible front-panel fuse protection

Typical Applications Automated test systems and data acquisition Precision bench measurements in R&D and manufacturing Systems integration requiring high reading rates

Features & description

From manufacturer datasheet

Built-in self-tests

Reading rates Slow/Medium/Fast up to 100 readings/s Technical Specifications Resolution: 5.5 digits (4.5 digits at fastest rate) DCV Ranges: 200 mV, 2 V, 20 V, 200 V, 1000 V DCV Input Resistance To 20 V: 10000 M Ω class DCV Input Resistance 200 V and 1000 V: 10 M Ω DCV One Year Accuracy 2 V Slow: 0.005% + 3 counts at 23 $\pm$ 5 C DCV One Year Accuracy 20 V Slow: 0.006% + 3 counts DCV One Year Accuracy 200 V Slow: 0.006% + 3 counts DCV One Year Accuracy 1000 V Slow: 0.007% + 3 counts DCV One Year Accuracy 200 mV Slow: 0.008% + 4 counts DCV Maximum Input: 1000 V dc or peak ac any range DCV Temperature Coefficient: less than (0.0006% reading + 0.3 count)/C outside 18-28 C Ohms Ranges: 200 ohm to 20 M Ω Ohms Configuration: 2-wire or 4-wire selectable DCI Range: 2000 mA ACV Option 09 Ranges: 200 mV to 700 V ACV Option 09 Bandwidth: 20 Hz to 100 kHz ACI Option 09 Range: 2000 mA ACI Option 09 Bandwidth: 20 Hz to 5 kHz Reading Rate Slow: 2.5 readings/s Reading Rate Medium: 20 readings/s Reading Rate Fast: 100 readings/s NMRR Slow Rate Class: greater than 98 dB CMRR Slow Rate Class: greater than 140 dB IEEE 488 Interface: Option 05 Power Line: 100, 120/220, 240 Vac $\pm$ 10%; 50, 60, 400 Hz Dimensions HxWxD: 89 $\times$ 216 $\times$ 371 mm

8840A Characteristics / Specifications

PARAMETER	VALUE
Resolution	5.5 digits (4.5 digits at fastest rate)
DCV Ranges	200 mV, 2 V, 20 V, 200 V, 1000 V
DCV Input Resistance To 20 V	10000 M Ω class
DCV Input Resistance 200 V and 1000 V	10 M Ω
DCV One Year Accuracy 2 V Slow	0.005% + 3 counts at 23 $\pm$ 5 C
DCV One Year Accuracy 20 V Slow	0.006% + 3 counts
DCV One Year Accuracy 200 V Slow	0.006% + 3 counts
DCV One Year Accuracy 1000 V Slow	0.007% + 3 counts
DCV One Year Accuracy 200 mV Slow	0.008% + 4 counts
DCV Maximum Input	1000 V dc or peak ac any range
DCV Temperature Coefficient	less than (0.0006% reading + 0.3 count)/C outside 18-28 C
Ohms Ranges	200 ohm to 20 M Ω
Ohms Configuration	2-wire or 4-wire selectable
DCI Range	2000 mA
ACV Option 09 Ranges	200 mV to 700 V
ACV Option 09 Bandwidth	20 Hz to 100 kHz
ACI Option 09 Range	2000 mA
ACI Option 09 Bandwidth	20 Hz to 5 kHz
Reading Rate Slow	2.5 readings/s
Reading Rate Medium	20 readings/s
Reading Rate Fast	100 readings/s
NMRR Slow Rate Class	greater than 98 dB
CMRR Slow Rate Class	greater than 140 dB
IEEE 488 Interface	Option 05
Power Line	100, 120/220, 240 Vac $\pm$ 10%; 50, 60, 400 Hz

PARAMETER	VALUE
Dimensions HxWxD	89 × 216 × 371 mm
Weight	8 lb
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	
Specifications	
PARAMETER	VALUE
Resolution	5.5 digits (4.5 digits at fastest rate)
DCV Ranges	200 mV, 2 V, 20 V, 200 V, 1000 V
DCV Input Resistance To 20 V	10000 MΩ class
DCV Input Resistance 200 V and 1000 V: 10 MΩ	
Specifications	
PARAMETER	VALUE
DCV One Year Accuracy 2 V Slow	0.005% + 3 counts at 23±5 C
DCV One Year Accuracy 20 V Slow	0.006% + 3 counts
DCV One Year Accuracy 200 V Slow	0.006% + 3 counts
DCV One Year Accuracy 1000 V Slow	0.007% + 3 counts
DCV One Year Accuracy 200 mV Slow	0.008% + 4 counts
DCV Maximum Input	1000 V dc or peak ac any range
DCV Temperature Coefficient	less than (0.0006% reading + 0.3 count)/C outside 18-28 C
Ohms Ranges	200 ohm to 20 MΩ
Ohms Configuration	2-wire or 4-wire selectable
DCI Range	2000 mA
ACV Option 09 Ranges	200 mV to 700 V
ACV Option 09 Bandwidth	20 Hz to 100 kHz
ACI Option 09 Range	2000 mA
ACI Option 09 Bandwidth	20 Hz to 5 kHz
Reading Rate Slow	2.5 readings/s
Reading Rate Medium	20 readings/s
Reading Rate Fast	100 readings/s
NMRR Slow Rate Class	greater than 98 dB
CMRR Slow Rate Class	greater than 140 dB

PARAMETER	VALUE
IEEE 488 Interface	Option 05
Power Line	100, 120/220, 240 Vac $\pm 10\%$; 50, 60, 400 Hz
Dimensions HxWxD	89 x 216 x 371 mm
Weight	8 lb

Notes
Accuracy and ranges from Fluke 8840A Instruction Manual Table 1-1 and product summary sheets. Medium/fast rates add counts per the manual footnotes; Option 09 required for specified true-RMS AC.

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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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.