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Data Sheet
August 14, 2026

FLUKE

Fluke 8842A 5.5 Digit Digital Multimeter

Fluke 8842A 5.5 Digit Precision Digital Multimeter The Fluke 8842A is a 5.5 digit benchtop digital multimeter with hermetically sealed thin film resistors enabling 20 mV, 200 mA, and 20 ohm ranges. OEM instruction manual rates basic DC accuracy 0.003 percent at 1 year, 100 nV resolution on 20 mV, and optional True-RMS AC and IEEE-488 interfaces. Precision DC voltage and ohms metrology support, low level DC measurements, 2-wire and 4-wire resistance, and automated GPIB systems with Option 05. 20 mV 200 mA and 20 ohm extended low ranges The Fluke 8842A is a 5.5 digit benchtop digital multimeter with hermetically sealed thin film resistors enabling 20 mV, 200 mA, and 20 ohm ranges. OEM instruction manual rates basic DC accuracy 0.003 percent at 1 year, 100 nV resolution on 20 mV, and optional True-RMS AC and IEEE-488 interfaces. Precision DC voltage and ohms metrology support, low level DC measurements, 2-wire and 4-wire resistance, and automated GPIB systems with Option 05. 20 mV 200 mA and 20 ohm extended low ranges Optional True-RMS AC Option 09 and IEEE-488 Option 05

MODEL **Fluke 8842A**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **8842A**	LISTING **https://aumictechlabs.com/products/8842a-2/**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 8842A is a 5.5-digit precision digital multimeter engineered for demanding benchtop and system applications requiring high accuracy and stability. Building on the 8840A platform, it incorporates hermetically sealed thin-film resistors and a proprietary CMOS monolithic A/D

converter to deliver measurement performance suitable for electronics testing, calibration laboratories, and automated test systems. The instrument combines exceptional DC voltage accuracy of 0.003% at 1 year with comprehensive measurement capabilities across voltage, current, and resistance ranges, backed by a voltage reference comparable to the Fluke 732B DC Reference Standard. Technical Specifications Display & Resolution Vacuum Fluorescent Display (VFD), 5.5 digits Reading rates up to 100 readings/second (selectable: Slow, Medium, Fast) Measurement Ranges & Accuracy DC Voltage: 20 mV to 1000 V with 0.003% basic accuracy (1 year), 0.005% (2 years); resolution 100 nV on 20 mV range AC Voltage (Option 09): 200 mV to 700 V RMS with 0.08% basic accuracy (1 year) Resistance: 20 Ω to 20 MΩ with 0.006% basic accuracy (1 year); resolution 100 µΩ on 20 Ω range; 2-wire and 4-wire measurement DC Current: 200 mA to 2000 mA with 1 µA resolution on 200 mA range Input Specifications DC Voltage input impedance: 10 MΩ AC Voltage input impedance: 1 MΩ shunted by 140 dB at DC Normal Mode Rejection Ratio: 85 dB at 50/60 Hz (S rate), 35 dB at 400 Hz (M rate) Temperature coefficient: <0.1× accuracy specification per °C Burden voltage: 1 V DC or RMS AC typical at full scale Key Features Precision thin-film resistor networks for long-term stability Analog switch ICs for improved performance and reliability Metal case provides EMI shielding for system integration Front/rear input selection via front panel switch Typical Applications Electronics testing, precision calibration laboratories, automated test systems requiring high-resolution DC measurements and extended measurement stability. Compatibility & Integration IEEE-488 interface (Option -05) enables full programmability, including external trigger input, sample complete output, and automated calibration control. Compatible with system software written for the 8840A.

Features & description

From manufacturer datasheet

Built-in self tests

Optional True-RMS AC Option 09 and IEEE-488 Option 05 Technical Specifications Display Digits: 5.5 DC Voltage Ranges: 20 mV to 1000 V DC Voltage Resolution 20 mV Range: 0.1 uV DC Voltage Basic Accuracy 1 Year 2 V Range: 0.0030 percent plus 2 counts DC Voltage Basic Accuracy 1 Year 20 mV Range: 0.0100 percent plus 30 counts with offset Maximum Input DC Or Peak: 1000 V Reading Rate Max Class: up to 100 readings per second Ohms Ranges: 20 ohm to 20 MOhm class with 2 and 4 wire Ohms Basic Accuracy 1 Year Class: 0.006 percent class DC Current Ranges: 200 mA and 2000 mA AC Voltage With Option 09: up to 700 V rms Warmup Time: 1 hour to rated specifications Operating Temperature: 0 C to 50 C Storage Temperature: minus 40 C to 70 C Power: 100 120 220 or 240 Vac plus or minus 10 percent 20 VA max Size: 8.9 cmHx 21.6 cmWx 37.1 cmDNet Weight: 3.4 kg Common Mode Voltage Max: 1000 V dc or peak ac or 700 V rms IEEE 488 Option: SH1 AH1 T5 L4 SR1 RL1 DC1 DT1 E1 PP0 C0 Manufacturer: per instrument faceplate branding Documentation Basis: OEM datasheet or operating manual family Specification Ambient Class: 23 C class unless otherwise stated Notes Numeric rows from Fluke 8842A Instruction Manual Table 1-1 specifications. AC functions require Option 09; GPIB requires Option 05.

8842A Characteristics / Specifications

PARAMETER	VALUE
Display Digits	5.5
DC Voltage Ranges	20 mV to 1000 V
DC Voltage Resolution 20 mV Range	0.1 uV
DC Voltage Basic Accuracy 1 Year 2 V Range	0.0030 percent plus 2 counts
DC Voltage Basic Accuracy 1 Year 20 mV Range	0.0100 percent plus 30 counts with offset
Maximum Input DC Or Peak	1000 V
Reading Rate Max Class	up to 100 readings per second
Ohms Ranges	20 ohm to 20 MOhm class with 2 and 4 wire
Ohms Basic Accuracy 1 Year Class	0.006 percent class
DC Current Ranges	200 mA and 2000 mA
AC Voltage With Option	up to 700 V rms
Warmup Time	1 hour to rated specifications
Operating Temperature	0 C to 50 C
Storage Temperature	minus 40 C to 70 C
Power	100 120 220 or 240 Vac plus or minus 10 percent 20 VA max
Size	8.9 cmHx 21.6 cmWx 37.1 cmDNet Weight: 3.4 kg
Common Mode Voltage Max	1000 V dc or peak ac or 700 V rms
IEEE 488 Option	SH1 AH1 T5 L4 SR1 RL1 DC1 DT1 E1 PP0 C0
Manufacturer	per instrument faceplate branding
Documentation Basis	OEM datasheet or operating manual family
Specification Ambient Class	23 C class unless otherwise stated

8842A Specifications

PARAMETER	VALUE
Fluke 8842A 5.5 Digit Precision Digital Multimeter	Overview
Key Features	5.5 digit vacuum fluorescent display
Technical Specifications	Display Digits: 5.5
Notes	Numeric rows from Fluke 8842A Instruction Manual Table 1-1 specifications. AC functions require Option 09; GPIB requires Option 05.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to 70 C
Operating temperature	0 C to 50 C
Operating Temperature	0 C to 50 C
Power	100 120 220 or 240 Vac plus or minus 10 percent 20 VA max
Size	8.9 cmHx 21.6 cmWx 37.1 cmDNet Weight: 3.4 kg
Common Mode Voltage Max	1000 V dc or peak ac or 700 V rms
IEEE 488 Option	SH1 AH1 T5 L4 SR1 RL1 DC1 DT1 E1 PP0 C0
Manufacturer	per instrument faceplate branding
Documentation Basis	OEM datasheet or operating manual family
Specification Ambient Class	23 C class unless otherwise stated Notes Numeric rows from Fluke 8842A Instruction Manual Table 1-1 specifications. AC functions require Option 09; GPIB requires Option 05.

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 Digits	5.5
DC Voltage Ranges	20 mV to 1000 V
DC Voltage Resolution 20 mV Range	0.1 uV

DC Voltage Basic Accuracy 1 Year 2 V Range: 0.0030 percent plus 2 counts
DC Voltage Basic Accuracy 1 Year 20 mV Range: 0.0100 percent plus 30 counts with offset

Specifications

PARAMETER	VALUE
Maximum Input DC Or Peak	1000 V
Reading Rate Max Class	up to 100 readings per second
Ohms Ranges	20 ohm to 20 MOhm class with 2 and 4 wire
Ohms Basic Accuracy 1 Year Class	0.006 percent class
DC Current Ranges	200 mA and 2000 mA
AC Voltage With Option 09	up to 700 V rms
Warmup Time	1 hour to rated specifications
Operating Temperature	0 C to 50 C
Storage Temperature	minus 40 C to 70 C
Power	100 120 220 or 240 Vac plus or minus 10 percent 20 VA max
Size	8.9 cmHx 21.6 cmWx 37.1 cmDNet Weight: 3.4 kg
Common Mode Voltage Max	1000 V dc or peak ac or 700 V rms
IEEE 488 Option	SH1 AH1 T5 L4 SR1 RL1 DC1 DT1 E1 PP0 C0
Manufacturer	per instrument faceplate branding
Documentation Basis	OEM datasheet or operating manual family
Specification Ambient Class	23 C class unless otherwise stated

Notes
Numeric rows from Fluke 8842A Instruction Manual Table 1-1 specifications. AC functions require Option 09; GPIB requires Option 05.

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