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Data Sheet

August 14, 2026

FLUKE

Fluke 867B Graphical Digital Multimeter

The Fluke 867B Graphical Multimeter combines DMM measurements with waveform display, TrendPlot charting, component testing and logic activity testing. OEM service-manual specifications list 0.025% + 2 counts DC volts accuracy on ranges from 300.00 mV to 1000.0 V, True RMS AC volts, capacitance to 10000 uF, frequency to 2 MHz, display 240 × 200 pixels backlit, and size 137 × 246 × 68 mm at 1.35 kg. Troubleshooting dynamic signals with simultaneous numeric and waveform views, long TrendPlot recording up to 30 hours, component signature checks, and logic activity testing unique to the 867B versus the 863. Troubleshooting dynamic signals with simultaneous numeric and waveform views, long TrendPlot recording up to 30 hours, component signature checks, and logic activity testing unique to the 867B versus the 863. Waveform display DC to 1 MHz bandwidth class Optically isolated RS-232 with FlukeView 860 software Display: LCD dot matrix 240 × 200 pixels backlit transmissive



MODEL

Fluke 867B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

867B

LISTING

<https://aumictechlabs.com/products/867b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 867B Graphical Digital Multimeter combines precision measurement with advanced waveform analysis in a single handheld instrument. True RMS voltage and current measurements, resistance to 30 MΩ, and capacitance sensing to 10,000 μF deliver laboratory-grade accuracy across DC, AC, and component-level diagnostics. Its graphical display captures transients as

short as 1 μ s and renders waveforms up to 1 MHz, revealing noise, distortion, and glitches invisible to standard digital meters. Peak Hold records peaks $\geq 10 \mu$ s; TrendGraph™ logging plots high-resolution meter readings over 30 hours at user-selectable intervals from 1 second to 15 minutes. Component test mode checks voltage-current signatures of resistors, capacitors, and semiconductors in-circuit with storable reference signatures. Logic Activity Test indicates transitions to 10 MHz and flags stuck-high or stuck-low conditions. Duty cycle, pulse width, period, frequency to 10 MHz, conductance, continuity, and dB/dBm measurements with 16 selectable impedance references round out a comprehensive troubleshooting platform. The 240×200-pixel LCD matrix supports simultaneous display of meter readings and waveforms in Combo mode, streamlining transient and steady-state analysis in industrial maintenance, electronics repair, and field service environments.

Technical Specifications
DC Voltage: 300.00 mV to 1000.0 V, $\pm 0.025\%$ accuracy
AC Voltage (True RMS): 300.00 mV to 1000.0 V, $\pm 0.5\%$ accuracy, 20 Hz to 300 kHz bandwidth
DC Current: 300.00 μ A to 10.000 A, 10 nA resolution, $\pm 0.05\%$ to 0.2% accuracy
AC Current (True RMS): 300.00 μ A to 10.000 A, $\pm 0.75\%$ accuracy
Resistance: 300.00 Ω to 30.000 M Ω , $\pm 0.07\%$ accuracy
Capacitance: 40 pF to 10,000 μ F, $\pm 1.90\%$ accuracy
Frequency: 2 Hz to 10 MHz, $\pm 0.05\%$ accuracy
dB Measurement: ± 0.05 dB accuracy with 16 impedance references (2 to 1200 Ω)
Waveform Display: Up to 1 MHz with 1 μ s transient capture; Glitch Capture $\geq 1 \mu$ s; Peak Hold $\geq 10 \mu$ s
TrendGraph™ Recording: Single-parameter data logging up to 30 hours at 1 second to 15 minute intervals
Logic Activity Test: Detects transitions to 10 MHz
Display: 240×200-pixel LCD dot matrix with simultaneous meter and waveform modes
Key Features
True RMS AC measurements with wide frequency bandwidth
In-circuit component signature testing with PC-downloadable reference storage
Real-time waveform analysis with glitch and peak capture
High-resolution trend logging for long-term parameter monitoring
Logic state detection and frequency counting to 10 MHz
Typical Applications
Power supply and motor drive troubleshooting
Signal integrity analysis in digital and analog circuits
Predictive maintenance via extended trend monitoring
In-circuit component verification and failure diagnosis
Compatibility & Integration
Component signatures may be stored locally or transferred to and from a PC.

867B Characteristics / Specifications

PARAMETER	VALUE
Display	LCD dot matrix 240 × 200 pixels backlit transmissive
Operating Temperature	0 C to 50 C
Storage Temperature Batteries Removed	-20 C to 60 C
Relative Humidity	0% to 90% non-condensing
Altitude Operating	2000 m
Dimensions HxWxD	137 × 246 × 68 mm
Weight	1.35 kg (3 lb)
DCV Range 300 mV Resolution	0.01 mV
DCV Accuracy 867B	0.025% + 2
DCV Range 1000 V Resolution	0.1 V
Input ImpedanceVDC	10 MOhm mV DC Hi Z: >1000 MOhm
Normal Mode Rejection	>60 dB at 50 or 60 Hz
Common Mode Rejection DC	>120 dB
DC Current Ranges	300 uA to 10 A
DC Current Accuracy 10 A	0.2% + 2
Resistance Range Max	30 MOhm
Resistance Accuracy 300 Ohm	0.07% + 10
Capacitance Range Max	10000 uF
Capacitance Accuracy 1 uF	1.9% + 2
Frequency Range Max	2.0000 MHz
Frequency Accuracy 1 kHz	0.05% + 2
Duty Cycle Range	0.1% to 99.9%
Battery Life Alkaline Typical Backlight Off	8 hours
Battery Recharge Time	16 hours minimum from full discharge
Drip Proof	IEC 529 IP52

PARAMETER	VALUE
Safety Category Class	IEC 1010-1 Category III class designs
Overload Protection Volts	1000 V rms
Storage temperature	Batteries Removed: -20 C to 60 C
Humidity	0% to 90% non-condensing

General Specifications & Supplementary Characteristics

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Safety Category Class	IEC 1010-1 Category III class designs
Overload Protection Volts	1000 V rms Notes From Fluke 867B/863 Graphical Multimeters service manual specifications chapter. Logic and some microamp ranges are 867B-only per OEM notes.

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 0.025% + 2 counts DC volts accuracy on ranges from 300.00 mV to 1000.0 V, True RMS AC volts, capacitance to 10000 uF, frequency to 2 MHz, display 240 x 200 pixels backlit, and size 137 x 246 x 68 mm at 1.35 kg.

Applications

Troubleshooting dynamic signals with simultaneous numeric and waveform views, long TrendPlot recording up to 30 hours, component signature checks, and logic activity testing unique to the 867B versus the 863.

Key Features

0.025% DC accuracy class

Waveform display DC to 1 MHz bandwidth class

TrendPlot electronic chart recorder

Component test and logic test (867B)

Optically isolated RS-232 with FlukeView 860 software

Technical Specifications

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Overload Protection Volts	1000 V rms

Notes
From Fluke 867B/863 Graphical Multimeters service manual specifications chapter. Logic and some microamp ranges are 867B-only per OEM notes.

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.