

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

FLUKE

Fluke 887AB AC/DC Differential Voltmeter

The Fluke 887AB is a classic AC/DC differential voltmeter providing conventional TVM and high-accuracy null differential measurements from 1 mV to 1100 V AC and 0 μ V to 1100 V DC. OEM catalog and product summaries list DC accuracy $\pm(0.0025\%$ of input + 0.0001% of range + 5 μ V), AC accuracy $\pm(0.05\%$ of input + 0.0025% of range) to 500 V up to 5 kHz, null ranges 100 μ V through 100 V in seven ranges, and battery-capable AB operation. High-impedance source DC measurements at null with effectively infinite input resistance to ± 11 V, precision AC differential measurements, and laboratory voltage standardization where loading errors must be minimized. Frequency Note: Reduced AC accuracy above 500 V and/or higher frequencies per OEM Primary Advantage: Extremely high input impedance at DC null Battery Operation: Internal rechargeable NiCd packs on AB From Fluke 887AB product documentation and period OEM catalog summaries. Confirm calibration temperature and AC frequency derating on the instrument manual for critical metrology use.



MODEL

Fluke 887AB

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

887AB

LISTING

<https://aumictechlabs.com/products/887ab-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 887AB is a multimeter that delivers exceptional accuracy and reliability for a wide range of measurement tasks. It features a large, backlit display for easy reading in any lighting conditions, as well as advanced functions such as true-RMS AC voltage and current, frequency,

capacitance, and resistance measurements. The multimeter is also equipped with a built-in temperature measurement function and a data logging capability for capturing intermittent events.

887AB Characteristics / Specifications

PARAMETER	VALUE
AC Voltage Ranges	1, 10, 100, 1000 Vac
DC Voltage Ranges	1, 10, 100, 1000 Vdc
AC Voltage Span	1 mV to 1100 V
DC Voltage Span	0 uV to 1100 V
Null Ranges	100 uV through 100 V end scale AC and DC in seven ranges
DC Accuracy	+/- (0.0025% of input + 0.0001% of range + 5 uV) from 0 to 1100 Vdc
AC Accuracy To 500 V To 5 kHz	+/- (0.05% of input + 0.0025% of range)
TVM Mode Accuracy	+/-3% of selected range
DC Input Resistance At Null 0 To 11 V	Infinite
DC Input Resistance Above	10 MOhm
Power Line	50-440 Hz 115/230 V
Battery	Internal rechargeable NiCd packs (AB)
Dimensions Approximate	8.5 × 7 × 14.75 in
Width	8.5 in
Height	7 in
Depth	14.75 in
Related Non Battery Model	887A same specs without battery
Null Mode	Differential null after TVM ranging
Readout	Front panel 5 readout dials
Frequency Note	Reduced AC accuracy above 500 V and/or higher frequencies per OEM
Primary Advantage	Extremely high input impedance at DC null
Battery Operation	Internal rechargeable NiCd packs on AB

887AB Specifications

PARAMETER	VALUE
Fluke 887AB AC DC Differential Voltmeter	Overview
Key Features	Infinite DC input impedance at null from 0 to +/-11 VDC
Technical Specifications	AC Voltage Ranges: 1, 10, 100, 1000 Vac

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
AC Voltage Ranges	1, 10, 100, 1000 Vac
DC Voltage Ranges	1, 10, 100, 1000 Vdc
AC Voltage Span	1 mV to 1100 V
DC Voltage Span	0 uV to 1100 V
Null Ranges	100 uV through 100 V end scale AC and DC in seven ranges
DC Accuracy	+/- (0.0025% of input + 0.0001% of range + 5 uV) from 0 to 1100 Vdc
AC Accuracy To 500 V To 5 kHz: +/- (0.05% of input + 0.0025% of range)	
TVM Mode Accuracy: +/- 3% of selected range	
DC Input Resistance At Null 0 To 11 V: Infinite	
Specifications	
PARAMETER	VALUE
DC Input Resistance Above	10 MOhm
Power Line	50-440 Hz 115/230 V
Battery	Internal rechargeable NiCd packs (AB)
Dimensions Approximate	8.5 x 7 x 14.75 in
Width	8.5 in
Height	7 in
Depth	14.75 in
Related Non Battery Model	887A same specs without battery
Null Mode	Differential null after TVM ranging
Readout	Front panel 5 readout dials
Frequency Note	Reduced AC accuracy above 500 V and/or higher frequencies per OEM
Primary Advantage	Extremely high input impedance at DC null
Battery Operation	Internal rechargeable NiCd packs on AB

Notes

From Fluke 887AB product documentation and period OEM catalog summaries. Confirm calibration temperature and AC frequency derating on the instrument manual for critical metrology use.

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.