

**Aumictech**

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Data Sheet

August 12, 2026

FLUKE

Fluke 8588A Reference Multimeter 8.5 Digit

DCV relative accuracy class: about 3.5 ppm one-year Reading rates: 5 MS/s into memory; bus 100 kS/s at 4.5 digits; 1 rdg/s at 8.5 digits Interfaces: GPIB 488.2, Ethernet, USB TMC Specs from Fluke 8588A vs 8558A comparison literature. Confirm options and latest absolute accuracy tables on the calibration certificate. Reading rates: 5 MS/s into memory; bus 100 kS/s at 4.5 digits; 1 rdg/s at 8.5 digits Interfaces: GPIB 488.2, Ethernet, USB TMC Specs from Fluke 8588A vs 8558A comparison literature. Confirm options and latest absolute accuracy tables on the calibration certificate.



MODEL Fluke 8588A	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU 8588A	LISTING https://aumictechlabs.com/products/8588a-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 8588A is a reference multimeter with 8.5 digits of resolution, designed for calibration laboratories and metrology institutes. This instrument delivers exceptional accuracy and long-term stability, essential for maintaining measurement standards. It features a wide range of measurement functions, including DC voltage, AC voltage, DC current, AC current, resistance, frequency, and capacitance. The 8588A incorporates advanced technologies to minimize noise and drift, ensuring reliable and repeatable measurements. Its intuitive user interface and comprehensive software support facilitate seamless integration into automated calibration systems.

Features & description

From manufacturer datasheet

Features

• 8.5-digit resolution (1 rdg/s class) • Visual Connection Management terminals • Programmable front/rear input switching • A40B shunt asset management • 3458A and 8508A emulation • Capacitance and RF power (R&S NRP) support

Applications

• Standards-lab DC/AC voltage and resistance metrology • High-current AC/DC measurements to 30 A • Digitized waveform capture and FFT analysis • Automated cal systems via GPIB/Ethernet/USB

8588A Characteristics / Specifications

PARAMETER	VALUE
Model	8588A
Manufacturer	Fluke
Instrument Type	Reference Multimeter
Alias	8588A; Fluke 8588A
DC voltage	100 mV to 1000 V
AC voltage	10 mV to 1000 V, 1 Hz to 10 MHz
Resistance	1 ohm to 10 Gohm
DC current	10 uA to 30 A
AC current	10 uA to 30 A, 1 Hz to 100 kHz
Digitize V	100 mV to 1000 V, 5 MS/s, up to 20 MHz BW
Digitize I	10 uA to 30 A, 5 MS/s, up to 4 MHz BW
Capacitance	1 nF to 100 mF
DCV relative accuracy class	about 3.5 ppm one-year
Reading rates	5 MS/s into memory; bus 100 kS/s at 4.5 digits; 1 rdg/s at 8.5 digits
Volatile memory	15 million readings
Interfaces	GPIB 488.2, Ethernet, USB TMC
External reference	10 MHz, 50 ohm/Hi-Z Notes Specs from Fluke 8588A vs 8558A comparison literature. Confirm options and latest absolute accuracy tables on the calibration certificate.

8588A Specifications

PARAMETER	VALUE
Fluke 8588A Reference Multimeter	Overview
Key Features	- 8.5-digit resolution (1 rdg/s class)
Technical Specifications	Model: 8588A
Notes	Specs from Fluke 8588A vs 8558A comparison literature. Confirm options and latest absolute accuracy tables on the calibration certificate.

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

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Interfaces	GPiB 488.2, Ethernet, USB TMC
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Notes

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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.