


Aumictech

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

FLUKE

Fluke 189 True RMS Digital Mutimeter

The Fluke 189 is a high-accuracy true-RMS digital multimeter with 50,000-count resolution, 0.025% basic DC accuracy, and 100 kHz AC bandwidth. Model 189 adds stand-alone data logging with timestamp (about 995 to 1000 readings / up to about 3 days class) plus readings memory for up to 100 locations, IR PC interface, MIN/MAX with timestamp, and 250 us fast peak capture. CAT III 1000 V / CAT IV 600 V. Pulse width ranges: 499.99 ms and 999.9 ms dBm dBV range: -62 to +60; resolution 0.01 dB Logging memory class: up to about 995 to 1000 readings stand-alone Specs from Fluke 187 & 189 datasheet and product literature. Confirm logging firmware limits and optional FVF software/cable with the kit.



MODEL

Fluke 189

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

189

LISTING

<https://aumictechlabs.com/products/189-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 189 is a high-resolution True RMS digital multimeter built for professional electronics troubleshooting, service, and preventive maintenance. Its dual 5½-digit display - primary 50,000 counts, secondary 5,000 counts - combined with a 40 Hz analog bar graph delivers real-time signal observation across AC and DC domains. With 0.025% basic DC voltage accuracy and 100 kHz AC bandwidth, the 189 captures precise measurements in complex industrial and field environments. Data logging stores up to 3 days of continuous readings with timestamp correlation, enabling intermittent fault detection without bench presence. MIN/MAX/AVG recording with peak capture as fast as 250 μs pinpoints transient anomalies. Technical Specifications Voltage & Current

DC voltage: 500.000 mV to 1000.0 V, $\pm(0.025\% + 5)$ accuracy, 10 μ V resolution AC voltage (True RMS): 500.000 mV to 1000.0 V, $\pm(0.4\% + 40)$ accuracy DC current: 500.00 μ A to 10.00 A, $\pm(0.05\% + 2)$ accuracy AC current (True RMS): 500.00 μ A to 10.00 A, $\pm(0.6\% + 2)$ accuracy; 10 A continuous, 20 A for 30 seconds maximum Resistance, Capacitance & Frequency Resistance: 500.00 Ω to 500.00 M Ω , $\pm(0.05\% + 2)$ accuracy Capacitance: 50.000 nF to 50.00 mF Frequency: 5.000 Hz to 500.0 kHz, $\pm(0.005\% + 1)$ accuracy Additional Functions Temperature: $^{\circ}$ C and $^{\circ}$ F via optional K-type thermocouple Continuity with audible beep Diode test, conductance (nS), dBm/dBV measurements Auto and manual rangingKey Features Data logging: 995 readings stand-alone, 1000 in internal memory with interval and event logging (default 4% threshold) Time-stamped MIN/MAX/AVG with 250 μ s peak capture IR interface for wireless data transfer to PC FlukeView[®] Forms software compatibility for analysis and documentationEnvironmental Specifications Operating temperature: -20° C to $+55^{\circ}$ C Storage temperature: -40° C to $+60^{\circ}$ CCompatibility & Integration Infrared PC interface enables wireless data transfer and integration with FlukeView[®] Forms software for customized reporting and post-test analysis.

Features & description

From manufacturer datasheet

Features

- 50000 count display with dual readout and bargraph

Applications

- Power distribution and industrial automation troubleshooting

189 Characteristics / Specifications

PARAMETER	VALUE
Model	189
Manufacturer	Fluke
Instrument Type	True RMS Logging Digital Multimeter
Alias	Fluke 189; Logging Multimeter
Display counts	50000
Basic DC accuracy	±0.025%
DC voltage ranges	50.000 mV to 1000.0 V
DC voltage max resolution	1 uV
AC voltage ranges	50.000 mV to 1000.0 V
AC voltage best accuracy	±0.4%
AC bandwidth	100 kHz
DC current ranges	500.00 uA to 10.000 A
DC current best accuracy	±0.15%
AC current ranges	500.00 uA to 10.000 A
AC current best accuracy	±0.75%
Current 10 A note	10 A continuous; 20 A up to 30 s not specified
Resistance	500.00 Ohm to 500.0 MOhm
Resistance best accuracy	±0.05%
Conductance maximum	500 nS
Capacitance	1.100 nF to 50.00 mF (50000 uF class)
Capacitance best accuracy	±1.00%
Frequency ranges	500.00 Hz to 999.99 kHz
Frequency best accuracy	±0.005%
Temperature range	-200 C to 1350 C
Temperature accuracy	±1% of reading

PARAMETER	VALUE
Duty cycle	10% to 90%; resolution 0.01%
Pulse width ranges	499.99 ms and 999.9 ms
dBm dBV range	-62 to +60; resolution 0.01 dB
Peak capture	250 us Fast MIN MAX
Logging memory class	up to about 995 to 1000 readings stand-alone
Readings memory	up to 100 locations
PC interface	isolated IR
Safety	CAT III 1000 V / CAT IV 600 V
Battery life	72 hours typical alkaline
Size	203 mm x 100 mm x 50 mm
Weight	0.545 kg
Warranty	limited lifetime Notes Specs from Fluke 187 & 189 datasheet and product literature. Confirm logging firmware limits and optional FVF software/cable with the kit.
Bandwidth	Stand-alone logging with real-time stamp (189)

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.

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Warranty: limited lifetime

Notes

Specs from Fluke 187 & 189 datasheet and product literature. Confirm logging firmware limits and optional FVF software/cable with the kit.

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.