

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

FLUKE

Fluke 289 CAL True-RMS Electronics Logging Multimeter with TrendCapture

The Fluke 289 CAL is a industrial logging multimeter engineered for complex troubleshooting and predictive maintenance across electronics, plant automation, power distribution, and electro-mechanical equipment. It delivers True-RMS AC and DC measurements with exceptional resolution and captures transient events as fast as 250 μ s. The integrated TrendCapture feature graphically displays logged data directly on the multimeter's large backlit dot-matrix display, enabling rapid anomaly detection without PC connection. AC/DC Current: Up to 10 A continuous; 20 A for 30 seconds; 0.01 A resolution Resistance & Impedance Aumictech offers NIST-traceable calibration and repair for the Fluke 289 CAL. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days after receipt. This Fluke 289 CAL is listed at . Calibration is



MODEL

Fluke 289 CAL

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

289 CAL

LISTING

<https://aumictechlabs.com/products/289-cal-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 289 CAL is a industrial logging multimeter engineered for complex troubleshooting and predictive maintenance across electronics, plant automation, power distribution, and electro-mechanical equipment. It delivers True-RMS AC and DC measurements with exceptional

resolution and captures transient events as fast as 250 μ s. The integrated TrendCapture feature graphically displays logged data directly on the multimeter's large backlit dot-matrix display, enabling rapid anomaly detection without PC connection.

Technical Specifications

Voltage & Current DC Voltage: 10 mV to 1000 V; 1 μ V resolution AC Voltage: 10 mV to 1000 V; 100 kHz bandwidth LoZ (Low Impedance) voltage function eliminates ghost voltages AC/DC Current: Up to 10 A continuous; 20 A for 30 seconds; 0.01 A resolution

Resistance & Impedance Range: Up to 500 M Ω Two-Terminal 50 Ω Range: 1 milliohm resolution with 10 mA source current

Low Ohm Measurements: 0.001 Ω to 50.000 Ω Conductance: 50.00 nS (20 M Ω to 100 G Ω)

Frequency & Timing Frequency: 0.1 Hz to 999.99 kHz; accuracy 0.005% + 1 Duty Cycle: 1% to 99% Pulse Width: 0.025 ms to 1250.0 ms Peak Capture: 250 μ s transient recording

Additional Measurements Capacitance: 1 pF to 100 mF Temperature: -200 $^{\circ}$ C to +1350 $^{\circ}$ C Continuity with beeper; diode test; DBV/dBm

Data Logging & Display TrendCapture with up to 14x zoom functionality Memory: 15,000 recorded events or 10,000 readings Large 1/4 VGA white backlit dot-matrix display (50,000 count) Real-time clock with automatic time stamping Adjustable recording and auto-hold thresholds Multiple logging sessions saveable before PC download Relative mode for lead resistance compensation

Key Features True-RMS measurements for non-linear industrial signals Unattended monitoring with expanded memory capacity On-board help screens for measurement functions Optional infrared connector for Fluke Connect™ mobile app integration

Typical Applications Electronics troubleshooting, plant maintenance, power distribution analysis, motor winding resistance verification, contact resistance assessment, and intermittent fault diagnosis.

Compatibility & Integration Optional infrared connector enables remote monitoring and data sharing via Fluke Connect™ mobile app.

289CAL Characteristics / Specifications

PARAMETER	VALUE
Display Counts Class	50000
DC Voltage Ranges	50.000 mV to 1000.0 V
DC Voltage Basic Accuracy	0.025 percent
DC mV Resolution	1 μ V
AC Voltage Ranges	50.000 mV to 1000.0 V
AC Voltage Basic Accuracy	0.4 percent True-RMS
True RMS AC Bandwidth	100 kHz
DC Current Ranges	500.00 μ A to 10.000 A
DC Current Basic Accuracy	0.05 percent
AC Current Ranges	500.00 μ A to 10.000 A
AC Current Basic Accuracy	0.6 percent True-RMS
Resistance Ranges	50.000 ohm to 500.0 MOhm
Resistance Basic Accuracy	0.05 percent
Capacitance Ranges	1.000 nF to 100 mF
Capacitance Basic Accuracy	1.0 percent
Frequency Ranges	99.999 Hz to 999.99 kHz
Frequency Basic Accuracy	0.005 percent
Temperature Range Excluding Probe	minus 200.0 C to 1350.0 C
Temperature Basic Accuracy	1.0 percent
Conductance	50.00 nS
Logging Memory Class	up to 10000 to 15000 readings depending on brochure revision
Battery Type	6 AA alkaline
Battery Life Minimum	100 hours
Maximum Voltage To Earth	1000 V
Operating Temperature	minus 20 C to 55 C

PARAMETER	VALUE
Size Class HxWxL	22.2 × 10.2 × 6 cm class
Weight Class	about 870 g
Bandwidth	100 kHz

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	minus 20 C to 55 C
Operating Temperature	minus 20 C to 55 C
Size Class HxWxL	22.2 × 10.2 × 6 cm class
Weight Class	about 870 g Notes Alias of fluke-289. Shared 280-series numeric table from Fluke 287/289 datasheets for CAL documentation workflows; confirm 289-specific industrial feature footnotes on the unit brochure.

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 Counts Class	50000
DC Voltage Ranges	50.000 mV to 1000.0 V
DC Voltage Basic Accuracy	0.025 percent
DC mV Resolution	1 uV
AC Voltage Ranges	50.000 mV to 1000.0 V
AC Voltage Basic Accuracy	0.4 percent True-RMS
True RMS AC Bandwidth	100 kHz
DC Current Ranges	500.00 uA to 10.000 A
DC Current Basic Accuracy	0.05 percent
AC Current Ranges	500.00 uA to 10.000 A
AC Current Basic Accuracy	0.6 percent True-RMS
Resistance Ranges	50.000 ohm to 500.0 MOhm
Resistance Basic Accuracy	0.05 percent
Capacitance Ranges	1.000 nF to 100 mF
Capacitance Basic Accuracy	1.0 percent
Frequency Ranges	99.999 Hz to 999.99 kHz
Frequency Basic Accuracy	0.005 percent
Temperature Range Excluding Probe	minus 200.0 C to 1350.0 C
Temperature Basic Accuracy	1.0 percent
Conductance	50.00 nS
Logging Memory Class	up to 10000 to 15000 readings depending on brochure revision
Battery Type	6 AA alkaline
Battery Life Minimum	100 hours
Maximum Voltage To Earth	1000 V
Operating Temperature	minus 20 C to 55 C
Size Class HxWxL	22.2 x 10.2 x 6 cm class

PARAMETER	VALUE
Weight Class	about 870 g

Notes
Alias of fluke-289. Shared 280-series numeric table from Fluke 287/289 datasheets for CAL documentation workflows; confirm 289-specific industrial feature footnotes on the unit brochure.

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.