

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

FLUKE

Fluke 289-NIST True RMS Industrial Data Logging Multimeter

Fluke Data Loggers. Voltage: up to 1000 V, Current: up to 10 A continuously, Bandwidth: 100 kHz.



MODEL

Fluke 289-NIST

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

289-NIST

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 289-NIST True RMS Industrial Data Logging Multimeter is a field instrument engineered for complex troubleshooting across electronics, plant automation, power distribution, and electro-mechanical systems. It combines advanced data logging with real-time measurement capabilities, enabling technicians to capture transients, trend equipment behavior, and diagnose faults without requiring a PC for initial analysis. The device features a large 50,000-count 1/4 VGA backlit display, True RMS measurement for non-linear loads, and NIST-traceable calibration certification.

Technical Specifications

Electrical Measurements

AC/DC Voltage: up to 1000 V

AC/DC Current: up to 10 A continuously; 20 A for 30 seconds

Resistance: 500 Ω to 500 M Ω ; Low Ohm mode with 50 Ω range, 1 m Ω resolution, 10 mA source current

Capacitance: 1 nF to 100 mF

Frequency: 99.999 Hz to 999.99 kHz

Duty Cycle: 0.01% to 99.99%

Pulse Width: 0.025 ms to 1250.0 ms

Conductance: 50.00 nS

True RMS: AC voltage and current

AC Bandwidth: 100 kHz

Basic DC Accuracy: $\pm 0.025\%$ Safety Rating: CAT III 1000 V, CAT IV 600 V Key Features
TrendCapture graphical analysis with up to 14x zoom for anomaly identification Data logging:
10,000 readings or 15,000 recorded events; 200-hour battery life in logging mode Peak Capture at
250 μs resolution for transient recording Selectable AC Filter and Low Pass Filter for noisy signal
environments Low Impedance Voltage (LoZ) mode for ghost voltage elimination Real-Time Clock
with automatic time-stamping Min/Max/Average and relative mode recording Audible continuity
and diode test functions On-board help screens accessible via dedicated button Typical
Applications Motor winding resistance measurements, contact resistance testing, power
distribution diagnostics, adjustable speed drive troubleshooting, transient capture on complex
loads, and long-term equipment trend monitoring in industrial environments. Compatibility &
Integration Optional ir3000 FC wireless connector enables Fluke Connect mobile app integration
for remote monitoring and ShareLive video call data sharing. Isolated optical PC interface
supports log-to-PC functionality.

Features & description

From manufacturer datasheet

Features

• TrendCapture on-meter graphical log review • Logging memory up to 15000 readings • LoZ, LoPass filter, and low-ohms functions on 289 class • Dual multi-line display with min/max/avg • Isolated optical interface for PC logging • Optional Fluke ir3000 FC wireless connector

Applications

• Industrial True-RMS voltage and current troubleshooting • Unattended interval/event logging with TrendCapture review • Predictive maintenance data capture to PC via optical interface • Temperature, capacitance, frequency, and high-megohm checks

289NIST Characteristics / Specifications

PARAMETER	VALUE
Model	289-NIST
Manufacturer	Fluke
Instrument Type	True-RMS Industrial Logging Multimeter
Alias	289; Fluke 289; 289-NIST; Fluke 289 CAL
DC voltage ranges	50.000 mV, 500.00 mV, 5.0000 V, 50.000 V, 500.00 V, 1000.0 V
DC voltage basic accuracy	0.025%
AC voltage ranges	50.000 mV to 1000.0 V same range set as DCVAC voltage basic accuracy: 0.4% True-RMS
DC current ranges	500.00 uA, 5000.0 uA, 50.000 mA, 400.00 mA, 5.0000 A, 10.000 A
DC current basic accuracy	0.05% to 0.15% per published datasheet revision
AC current ranges	500.00 uA to 10.000 A
AC current basic accuracy	0.6% to 0.7% True-RMS per datasheet revision
Resistance ranges	50.000 ohm to 500.0 Mohm
Resistance basic accuracy	0.05%
Capacitance ranges	1.000 nF to 100 mF
Capacitance basic accuracy	1.0%
Frequency ranges	99.999 Hz to 999.99 kHz
Frequency basic accuracy	0.005%
Temperature range excluding probe	-200.0 to 1350.0 degC
Temperature basic accuracy	1.0%
Conductance	50.00 nS
DC mV resolution	1 uV
Maximum voltage to earth	1000 V
Logging memory	up to 15000 readings
Battery type	6 AA alkaline NEDA 15A IEC LR6
Battery life	100 hours minimum; 200 hours logging mode

PARAMETER	VALUE
Operating temperature	-20 to 55 degC
Storage temperature	-40 to 60 degC
Relative humidity	0 to 90% to 37 degC; derated above
Size	22.2 × 10.2 × 6 cm
Weight	870.9 g
Calibration documentation	NIST-traceable certificate with data for -NIST/CAL listing Notes Electrical specs from Fluke 289 / 289-FVF product datasheets. Confirm exact accuracy revision and certificate date on the unit; NIST/CAL suffix denotes documentation package, notadifferent electrical model.
Bandwidth	100 kHz
Humidity	0 to 90% to 37 degC; derated above

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 to 60 degC
Operating temperature	20 to 55 degC
Operating Temperature	20 to 55 degC
Humidity	0 to 90% to 37 degC; derated above
Relative humidity	0 to 90% to 37 degC; derated above
Size	22.2 × 10.2 × 6 cm
Weight	870.9 g
Calibration documentation	NIST-traceable certificate with data for -NIST/CAL listing Notes Electrical specs from Fluke 289 / 289-FVF product datasheets. Confirm exact accuracy revision and certificate date on the unit; NIST/CAL suffix denotes documentation package, notadifferent electrical model.

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.

performance True-RMS industrial logging multimeter with on-board TrendCapture graphical review. It logs up to about 15000 readings for intermittent troubleshooting in electronics, plant automation, power distribution, and electro-mechanical equipment. The 289-NIST / CAL-class listing denotes a unit supplied with NIST-traceable calibration documentation from Fluke.

- Applications
- Industrial True-RMS voltage and current troubleshooting
 - Unattended interval/event logging with TrendCapture review
 - Predictive maintenance data capture to PC via optical interface
 - Temperature, capacitance, frequency, and high-megohm checks

- Key Features
- TrendCapture on-meter graphical log review
 - Logging memory up to 15000 readings
 - LoZ, LoPass filter, and low-ohms functions on 289 class
 - Dual multi-line display with min/max/avg
 - Isolated optical interface for PC logging
 - Optional Fluke ir3000 FC wireless connector

Technical Specifications

Technical Specifications

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Model	289-NIST
Manufacturer	Fluke
Instrument Type	True-RMS Industrial Logging Multimeter
Alias	289; Fluke 289; 289-NIST; Fluke 289 CAL
DC voltage ranges	50.000 mV, 500.00 mV, 5.0000 V, 50.000 V, 500.00 V, 1000.0 V
DC voltage basic accuracy	0.025%
AC voltage ranges	50.000 mV to 1000.0 V same range set as DC V
AC voltage basic accuracy	0.4% True-RMS

Technical Specifications

PARAMETER	VALUE
Model	289-NIST
Manufacturer	Fluke
Instrument Type	True-RMS Industrial Logging Multimeter
Alias	289; Fluke 289; 289-NIST; Fluke 289 CAL
DC voltage ranges	50.000 mV, 500.00 mV, 5.0000 V, 50.000 V, 500.00 V, 1000.0 V
DC voltage basic accuracy	0.025%

PARAMETER	VALUE
AC voltage ranges	50.000 mV to 1000.0 V same range set as DCVAC voltage basic accuracy: 0.4% True-RMS

True-RMS AC bandwidth: 100 kHz

Specifications

PARAMETER	VALUE
DC current ranges	500.00 uA, 5000.0 uA, 50.000 mA, 400.00 mA, 5.0000 A, 10.000 A
DC current basic accuracy	0.05% to 0.15% per published datasheet revision
AC current ranges	500.00 uA to 10.000 A
AC current basic accuracy	0.6% to 0.7% True-RMS per datasheet revision
Resistance ranges	50.000 ohm to 500.0 Mohm
Resistance basic accuracy	0.05%
Capacitance ranges	1.000 nF to 100 mF
Capacitance basic accuracy	1.0%
Frequency ranges	99.999 Hz to 999.99 kHz
Frequency basic accuracy	0.005%
Temperature range excluding probe	-200.0 to 1350.0 degC
Temperature basic accuracy	1.0%
Conductance	50.00 nS
DC mV resolution	1 uV
Maximum voltage to earth	1000 V
Logging memory	up to 15000 readings
Battery type	6 AA alkaline NEDA 15A IEC LR6
Battery life	100 hours minimum; 200 hours logging mode
Operating temperature	-20 to 55 degC
Storage temperature	-40 to 60 degC
Relative humidity	0 to 90% to 37 degC; derated above
Size	22.2 x 10.2 x 6 cm
Weight	870.9 g
Calibration documentation	NIST-traceable certificate with data for -NIST/CAL listing

Notes
Electrical specs from Fluke 289 / 289-FVF product datasheets. Confirm exact accuracy revision and certificate date on the unit; NIST/CAL suffix denotes documentation package, notadifferent electrical model.

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.