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Data Sheet

August 14, 2026

FLUKE

Fluke 179 True RMS Digital Multimeter with built-in thermometer

Fluke 179 True-RMS Digital Multimeter with Temperature The Fluke 179 is a 6000-count true-RMS handheld DMM in the 170 Series with built-in thermometer, backlight, and Min/Max-Average recording. Official Fluke specifications list best DC voltage accuracy $\pm(0.09\% + 2)$, AC voltage $\pm(1.0\% + 3)$, current to 10 A, resistance to 50 M Ω , capacitance to 10000 μ F, frequency to 100 kHz, and temperature -40 C to 400 C. Industrial and commercial electrical troubleshooting, HVAC and plant maintenance with temperature checks, continuity and diode service, and general field voltage/current/resistance measurements to 1000 V CAT III / 600 V CAT IV class. The Fluke 179 is a 6000-count true-RMS handheld DMM in the 170 Series with built-in thermometer, backlight, and Min/Max-Average recording. Official Fluke specifications list best DC voltage accuracy $\pm(0.09\% + 2)$, AC voltage $\pm(1.0\% + 3)$, current to 10 A, resistance to 50 M Ω , capacitance to 10000 μ F, frequency to 100 kHz, and temperature -40 C to 400 C. Industrial and commercial electrical troubleshooting, HVAC and plant maintenance with temperature checks, continuity and diode service, and general field voltage/current/resistance measurements to 1000 V CAT III / 600 V CAT IV class.



MODEL

Fluke 179

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

179

LISTING

<https://aumictechlabs.com/products/179-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 179 True RMS Digital Multimeter combines electrical measurement, temperature sensing, and diagnostic capability in a single instrument for industrial and utility troubleshooting. It delivers True RMS AC/DC voltage and current measurements alongside resistance, capacitance, frequency, continuity, and diode testing. The integrated thermometer eliminates the need for a separate probe, measuring temperature from $-40\text{ }^{\circ}\text{C}$ to $+400\text{ }^{\circ}\text{C}$ with $\pm(1.0\% + 10)$ accuracy.

Technical Specifications

Voltage & Current Measurement

DC Voltage: 0.1 mV to 1000 V, 0.1 mV resolution, $\pm 0.09\%$ basic accuracy

AC Voltage (True RMS): 0.1 mV to 1000 V, 1 kHz frequency response, $\pm 1.0\%$ basic accuracy

DC Current: 0.01 mA to 10.00 A (20.00 A overrange for 30 s), 0.01 mA resolution, $\pm 1\%$ basic accuracy

AC Current (True RMS): 0.01 mA to 10.00 A (20.00 A overrange for 30 s), $\pm 1.5\%$ basic accuracy (500 Hz to 1 kHz)

Passive Measurements

Resistance: 0.1 Ω to 50.00 M Ω , 0.1 Ω resolution

Capacitance: 1 nF to 9999 μF , 0.01 nF resolution, 1.2% accuracy ($\leq 1000\text{ }\mu\text{F}$)

Frequency: 2 Hz to 50 kHz (DMM functions), 2 Hz to 99.99 kHz (AC/DC voltage), 2 Hz to 30 kHz (current), 0.01 Hz resolution

Diode Test: 2.400 V range, 0.001 V resolution

Continuity: Beeper guaranteed $< 25\text{ }\Omega$; detects opens/shorts $\geq 250\text{ }\mu\text{s}$

Temperature Range: $-40\text{ }^{\circ}\text{C}$ to $+400\text{ }^{\circ}\text{C}$, 0.1 $^{\circ}\text{C}$ resolution, $\pm(1.0\% + 10)$ accuracy

Key Features

6000-count digital display, 4 updates/second; 33-segment analog bargraph at 40 updates/second

Manual and automatic ranging modes

Display HOLD and Auto HOLD with stable-reading detection

MIN MAX AVG recording function

Backlit display with 2-minute auto-off; user-disableable

CAT III 1000 V / CAT IV 600 V safety rating

Front-panel closed-case calibration

Typical Applications

Electrical troubleshooting, HVAC system diagnostics, industrial maintenance, field service, and temperature verification in control systems.

Compatibility & Integration

Dimensions: 7.28 in H $\times$ 3.54 in W.

Suitable for deployment in CAT III and CAT IV environments.

Features & description

From manufacturer datasheet

Built-in thermometer eliminates a separate temperature instrument

Manual and automatic ranging with Display Hold and Auto Hold Min/Max-Average recording Backlit digital display with analog bar graph Technical Specifications Display Counts: 6000 DC Voltage Accuracy Best: $\pm(0.09\% + 2)$ DC Voltage Maximum Resolution: 0.1 mV DC Voltage Maximum: 1000 V AC Voltage Accuracy Best: $\pm(1.0\% + 3)$ AC Voltage Maximum Resolution: 0.1 mV AC Voltage Maximum: 1000 V DC Current Accuracy Best: $\pm(1.0\% + 3)$ DC Current Maximum Resolution: 0.01 mA DC Current Maximum: 10 A AC Current Accuracy Best: $\pm(1.5\% + 3)$ AC Current Maximum Resolution: 0.01 mA AC Current Maximum: 10 A Resistance Accuracy Best: $\pm(0.9\% + 1)$ Resistance Maximum Resolution: 0.1 ohm Resistance Maximum: 50 M Ω Capacitance Accuracy Best: $\pm(1.2\% + 2)$ Capacitance Maximum Resolution: 1 nF Capacitance Maximum: 10000 uF Frequency Accuracy Best: $\pm(0.1\% + 1)$ Frequency Maximum Resolution: 0.01 Hz Frequency Maximum: 100 kHz Temperature Accuracy Best: $\pm(1.0\% + 10)$ Temperature Maximum Resolution: 0.1 C Temperature Range: -40 C to 400 C Operating Temperature: -10 C to +50 C Storage Temperature: -30 C to +60 C Overvoltage Category: EN 61010-1 1000 V CAT III, 600 V CAT IV Size: 43 × 90 × 185 mm Weight: 420 g Battery Life Alkaline Typical: about 200 hours without backlight

179 Characteristics / Specifications

PARAMETER	VALUE
Display Counts	6000
DC Voltage Accuracy Best	$\pm(0.09\% + 2)$
DC Voltage Maximum Resolution	0.1 mV
DC Voltage Maximum	1000 V
AC Voltage Accuracy Best	$\pm(1.0\% + 3)$
AC Voltage Maximum Resolution	0.1 mV
AC Voltage Maximum	1000 V
DC Current Accuracy Best	$\pm(1.0\% + 3)$
DC Current Maximum Resolution	0.01 mA
DC Current Maximum	10 A
AC Current Accuracy Best	$\pm(1.5\% + 3)$
AC Current Maximum Resolution	0.01 mA
AC Current Maximum	10 A
Resistance Accuracy Best	$\pm(0.9\% + 1)$
Resistance Maximum Resolution	0.1 ohm
Resistance Maximum	50 M Ω
Capacitance Accuracy Best	$\pm(1.2\% + 2)$
Capacitance Maximum Resolution	1 nF
Capacitance Maximum	10000 μ F
Frequency Accuracy Best	$\pm(0.1\% + 1)$
Frequency Maximum Resolution	0.01 Hz
Frequency Maximum	100 kHz
Temperature Accuracy Best	$\pm(1.0\% + 10)$
Temperature Maximum Resolution	0.1 C
Temperature Range	-40 C to 400 C

PARAMETER	VALUE
Operating Temperature	-10 C to +50 C
Storage Temperature	-30 C to +60 C
Overvoltage Category	EN 61010-1 1000 V CAT III, 600 V CAT IV
Size	43 × 90 × 185 mm
Weight	420 g
Battery Life Alkaline Typical	about 200 hours without backlight
Warranty	Lifetime

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	30 C to +60 C
Operating temperature	10 C to +50 C
Operating Temperature	10 C to +50 C
Overvoltage Category	EN 61010-1 1000 V CAT III, 600 V CAT IV
Size	43 × 90 × 185 mm
Weight	420 g
Battery Life Alkaline Typical	about 200 hours without backlight
Warranty	Lifetime Notes Best-accuracy rows from Fluke 179 official product specifications. Detailed range tables for 175/177/179 are in the Fluke 170 Series users manual; accuracies ±(% reading + counts) one year at 18 C to 28 C, 0% to 90% RH.

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 list best DC voltage accuracy $\pm(0.09\% + 2)$, AC voltage $\pm(1.0\% + 3)$, current to 10 A, resistance to 50 M Ω , capacitance to 10000 uF, frequency to 100 kHz, and temperature -40 C to 400 C.

Applications
Industrial and commercial electrical troubleshooting, HVAC and plant maintenance with temperature checks, continuity and diode service, and general field voltage/current/resistance measurements to 1000 V CAT III / 600 V CAT IV class.

Key Features
True-RMS AC voltage and current
Built-in thermometer eliminates a separate temperature instrument
Manual and automatic ranging with Display Hold and Auto Hold
Min/Max-Average recording
Backlit digital display with analog bar graph

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Display Counts	6000
DC Voltage Accuracy Best	$\pm(0.09\% + 2)$
DC Voltage Maximum Resolution	0.1 mV
DC Voltage Maximum	1000 V
AC Voltage Accuracy Best	$\pm(1.0\% + 3)$
AC Voltage Maximum Resolution	0.1 mV
AC Voltage Maximum	1000 V
DC Current Accuracy Best	$\pm(1.0\% + 3)$
DC Current Maximum Resolution	0.01 mA
DC Current Maximum	10 A
AC Current Accuracy Best	$\pm(1.5\% + 3)$
AC Current Maximum Resolution	0.01 mA
AC Current Maximum	10 A
Resistance Accuracy Best	$\pm(0.9\% + 1)$
Resistance Maximum Resolution	0.1 ohm
Resistance Maximum	50 M Ω
Capacitance Accuracy Best	$\pm(1.2\% + 2)$
Capacitance Maximum Resolution	1 nF
Capacitance Maximum	10000 uF

PARAMETER	VALUE
Frequency Accuracy Best	$\pm(0.1\% + 1)$
Frequency Maximum Resolution	0.01 Hz
Frequency Maximum	100 kHz
Temperature Accuracy Best	$\pm(1.0\% + 10)$
Temperature Maximum Resolution	0.1 C
Temperature Range	-40 C to 400 C
Operating Temperature	-10 C to +50 C
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Overvoltage Category	EN 61010-1 1000 V CAT III, 600 V CAT IV
Size	43 x 90 x 185 mm
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Battery Life Alkaline Typical	about 200 hours without backlight

Warranty: Lifetime

Notes

Best-accuracy rows from Fluke 179 official product specifications. Detailed range tables for 175/177/179 are in the Fluke 170 Series users manual; accuracies $\pm(\%$ reading + counts) one year at 18 C to 28 C, 0% to 90% RH.

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

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NIST-traceable calibration · SAM registered ·
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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.