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Data Sheet

August 14, 2026

FLUKE

Fluke 75 Series II Digital Multimeter

The Fluke 75 Series II Digital Multimeter is a handheld device designed for electrical troubleshooting. It measures voltage, current, and resistance with high accuracy. Features include a large display, auto-ranging, and data hold.



MODEL

Fluke 75 Series II

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

75 Series II

LISTING

<https://aumictechlabs.com/products/75-series-ii-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 75 Series II is a handheld digital multimeter engineered for electrical troubleshooting and field measurements across professional maintenance, service, and diagnostic applications. It combines a 3200-count digital display with a 31-segment analog bar graph - updating at 2.5 Hz and 25 Hz respectively - to deliver precise numerical readings and real-time trend visualization. The instrument measures DC voltage (320 mV to 1000 V), AC voltage (3.2 V to 750 V, sine wave), DC current (32 mA to 10 A), AC current (32 mA to 10 A), and resistance (320 Ω to 32 M Ω). Additional functions include continuity testing with a 4096 Hz audible beeper and diode testing with 2.8 V measurement voltage and 1% accuracy. Technical Specifications Display: 3½-digit, 3200-count digital with 31-segment analog bar graph Update Rate: Digital 2.5 Hz; Analog bar graph 25 Hz DC Voltage Accuracy: $\pm(0.4\% + 1)$ AC Voltage Accuracy: $\pm(2\% + 2)$ on 45 Hz to 500 Hz (750 V range) and 45 Hz to 1 kHz (3.2 V and 32 V ranges) DC Current Accuracy: $\pm(1.5\% + 2)$ AC Current Accuracy: $\pm(2.5\% + 2)$ Resistance Accuracy: $\pm(0.5\% + 1)$ Input Impedance: 10 M Ω / 50

pF (VDC, mVDC, VAC) Maximum Overvoltage Rating: 1000 V DC; 750 V AC RMS (sine) Fuse Protection: 300/630 mA, 250 V; 10/15 A, 600 V (Fast) Key Features Manual and automatic ranging for flexible field operation Touch Hold captures and displays stable readings automatically 9V battery (NEDA 1604, 6F22, or 006P) with Sleep Mode extending runtime beyond 2000 hours (alkaline) Auto power-off with sleep function preserves battery life Diode forward voltage drop (Vf) measurement at 2.8 V Ergonomic case with removable holster IEC 348, ANSI/ISA-S82, UL1244, and CSA C22.2 No.231 compliant Physical Specifications Dimensions: 2.8 cm H × 7.5 cm W × 16.6 cm L Weight: 340 g Battery Life: 2000 hours typical (alkaline); 1600 hours typical (carbon zinc) Typical Applications Electrical troubleshooting, preventive maintenance, HVAC service diagnostics, control circuit verification, and general field testing where dual display feedback enhances measurement confidence.

75SERIESII Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	Fluke 75 Series II
Measurement Functions	VDC VAC ADC resistance continuity diode
Display	digital with analog bar graph class
Ranging	auto and manual class
Continuity	audible beeper
Diode Test	yes
Form Factor	handheld
Battery Powered	yes
Safety Category Class	CAT rated per Series II marking
Maximum Voltage Class	600 V to 1000 V class per faceplate
Current Input	fused mA/A inputs class
Resistance	multi range ohms
AC Coupling	average responding class on Series II
Holster	optional protective holster class
Operating Temperature Class	specified on Series II datasheet
Series Family	Fluke 70 Series II
Touch Hold Class	available on Series II family
Relative Mode Class	available on family
Input Impedance Class	10 MOhm class DC volts
Manufacturer	per instrument faceplate branding
Documentation Basis	OEM datasheet or operating manual family
Specification Ambient Class	23 C class unless otherwise stated
Operating temperature	Class: specified on Series II datasheet

75SERIESII Specifications

PARAMETER	VALUE
Fluke 75 Series II Digital Multimeter	Overview
Auto and manual ranging class	Rugged handheld 70 Series II construction
Technical Specifications	Instrument Family: Fluke 75 Series II

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: specified on Series II datasheet
Operating Temperature	Class: specified on Series II datasheet
Operating Temperature Class	specified on Series II datasheet
Series Family	Fluke 70 Series II
Touch Hold Class	available on Series II family
Relative Mode Class	available on family
Input Impedance Class	10 MOhm class DC volts
Manufacturer	per instrument faceplate branding
Documentation Basis	OEM datasheet or operating manual family
Specification Ambient Class	23 C class unless otherwise stated Notes Identity and family capability rows from Fluke 70 Series II / 75 Series II product literature. Confirm exact accuracy table and CAT marking on the Series II faceplate and calibration certificate; Series II revisions vary slightly.

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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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.