

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

FLUKE

Fluke 107 ESP Digital Multimeter, CAT III, 600 V

The Fluke 107 ESP Digital Multimeter is a compact, easy-to-use digital multimeter designed for basic electrical troubleshooting. It measures AC and DC voltage, current, resistance, and capacitance. This meter is CAT III 600V safety rated, providing protection in demanding environments.



MODEL

Fluke 107 ESP

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

107 ESP

LISTING

<https://aumictechlabs.com/products/107-esp-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 107 ESP is a palm-sized digital multimeter engineered for field service technicians and electricians performing routine electrical troubleshooting and general maintenance. It delivers essential measurement capabilities in a compact form factor - 142 mm × 69 mm × 28 mm, weighing just 200 g - without requiring True-RMS accuracy for everyday applications. The 6000-count LCD display refreshes three times per second, powered by two AAA batteries with a service life under 200 hours. Its IEC 61010-1 CAT III 600 V safety rating and Pollution Degree 2 classification ensure user protection in demanding field environments. The meter withstands 1-meter drops and operates reliably across 0 °C to 40 °C. Technical Specifications The 107 ESP measures DC voltage to 600.0 V with 0.5% + 3 counts accuracy and AC voltage (40 Hz to 500 Hz) to 600.0 V at 1.0% + 3 counts. Current measurement extends to 10.00 A DC (1.5% + 3 counts) and 10.00 A AC (2.0% + 3 counts). Resistance testing covers 400 Ω to 40.00 MΩ in six ranges

with 0.5% accuracy up to 400 k Ω and 1.5% accuracy at higher ranges. The instrument includes capacitance measurement to 5.000 mF, diode test to 2.000 V, and frequency measurement to 100 kHz. DC millivolt range spans 600 mV at 0.5% + 3 counts; AC millivolts to 600 mV at 3.0% + 3 counts with approximately 1 M Ω input impedance. Ohm test voltage is typically 2.0 V with short-circuit current below 0.6 mA. Key Features 6000-count LCD, 3 updates/sec Dual AAA battery power source (IEC LR03 type) CAT III 600 V, Pollution Degree 2 rated 1-meter drop-tested construction Operating range 0 °C to 40 °C; storage -30 °C to 60 °C Operating humidity 0% to 75% RH Typical Applications Routine field service, HVAC maintenance, general electrical diagnostics, and bench troubleshooting where CAT III 600 V protection is required. Compatibility & Integration Standard test leads compatible with 4 mm banana sockets.

107ESP Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	Fluke 107
True RMS	yes
DC Voltage Measurement	yes multi range
AC Voltage Measurement	yes True-RMS
DC Current Measurement	yes
AC Current Measurement	yes True-RMS
Resistance	yes
Capacitance	yes
Frequency	yes
Diode Test	yes
Continuity	yes
Display	digital LCD class
Ranging	auto range class
Data Hold	yes
Form Factor	compact handheld
Battery Powered	yes
Safety Category Class	CAT rated per faceplate
Backlight Class	yes on 107 literature
Input Impedance Class	10 MOhm class DC volts
Fused Current Inputs	yes class
Operating Temperature Class	specified on datasheet
Series Family	Fluke 100 series compact
Operating temperature	Class: specified on datasheet

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: specified on datasheet
Operating Temperature	Class: specified on datasheet
Operating Temperature Class	specified on datasheet
Series Family	Fluke 100 series compact Notes Capability rows from Fluke 107 product literature. Confirm exact range/accuracy table and CAT marking on the unit datasheet for calibration work.

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
Instrument Family	Fluke 107
True RMS	yes
DC Voltage Measurement	yes multi range
AC Voltage Measurement	yes True-RMS
DC Current Measurement	yes
AC Current Measurement	yes True-RMS
Resistance	yes
Capacitance	yes
Frequency	yes
Diode Test	yes
Continuity	yes
Display	digital LCD class
Ranging	auto range class
Data Hold	yes
Form Factor	compact handheld
Battery Powered	yes
Safety Category Class	CAT rated per faceplate
Backlight Class	yes on 107 literature
Input Impedance Class	10 MOhm class DC volts
Fused Current Inputs	yes class
Operating Temperature Class	specified on datasheet
Series Family	Fluke 100 series compact
Notes	
Capability rows from Fluke 107 product literature. Confirm exact range/accuracy table and CAT marking on the unit datasheet for calibration work.	

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.