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Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

FLUKE

Fluke 1577 Insulation Multimeter

The Fluke 1577 Insulation Multimeter combines a digital insulation tester with a full-featured true-rms digital multimeter in one handheld instrument. Insulation tests at 500 V and 1000 V cover 0.1 MΩ to 600 MΩ, with live-circuit inhibit, auto-discharge, and CAT III 1000 V / CAT IV 600 V safety ratings for motors, generators, cables, and switchgear maintenance. Alias: Fluke 1577; 1577 Insulation Multimeter Insulation resistance range: 0.1 MΩ to 600 MΩ Insulation accuracy 500 V: $\pm(2.0\% + 5 \text{ counts})$ Insulation accuracy 1000 V: $\pm(2.0\% + 5 \text{ counts})$



MODEL

Fluke 1577

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

1577

LISTING

<https://aumictechlabs.com/products/1577-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 1577 Insulation Multimeter combines a digital insulation tester and true-RMS digital multimeter into a single handheld instrument. It delivers dual-function capability for troubleshooting and preventative maintenance of electrical systems, motors, generators, cables, and switchgear without carrying separate tools. Technical Specifications Insulation Testing Test voltages: 500 V, 1000 V Insulation resistance measurement range: 0.1 MΩ to 600 MΩ Resolution: 0.01 MΩ (50 V, 100 V); 0.1 MΩ (250 V, 500 V, 1000 V) Accuracy: $\pm(3\% + 5)$ at 50 V and 100 V; $\pm(1.5\% + 5)$ at 250 V; $\pm(2.0\% + 5)$ at 500 V and 1000 V Minimum test current: 1 mA @ 1 kΩ/V Auto discharge of capacitive voltage: Yes Live circuit detection: Prevents insulation test above 30 V Digital Multimeter Functions DC voltage: 0–1000 V, $\pm(0.2\% + 2)$ accuracy, 0.001 V resolution AC voltage: 0–1000 V, $\pm(2\% + 3)$ accuracy, 0.1 mV resolution DC current: 0–400 mA, $\pm(1.0\% + 2)$

accuracy, 0.01 mA resolution AC current: 0–400 mA, $\pm(2.0\% + 2)$ accuracy, 0.01 mA resolution Resistance: 0–50 M Ω , $\pm(1.2\% + 2)$ accuracy, 0.1 Ω resolution Continuity and true RMS included Safety & Environmental Overvoltage category: CAT III 1000 V, CAT IV 600 V Safety standards: ANSI/ISA 82.02.01 (61010-1) 2004, CAN/CSA-C22.2 NO. 61010-1-04, IEC/EN 61010-1 2nd Edition IP40 rating; dimensions 203 mm $\times$ 100 mm $\times$ 50 mm; weight 0.624 kg Operating temperature: –20°C to +55°C Large backlit LCD displayKey Features Battery life: 1000 hours (meter use); minimum 1000 insulation tests per alkaline battery set Auto power-off function Includes remote probe, test leads, alligator clips, hard case, and four AA alkaline batteriesTypical Applications Electrical system troubleshooting, motor and generator testing, cable insulation verification, switchgear maintenance.

Features & description

From manufacturer datasheet

Features

- Two-in-one insulation tester + true-rms DMM
- Insulation voltages 500 V and 1000 V
- Live circuit detection inhibits test if >30 V
- Auto-discharge of capacitive voltage
- Large backlit display
- Auto power off
- Accepts optional TPAK magnetic hanger
- Includes remote probe, leads, clips, hard case

Applications

- Insulation resistance testing of motors and cables
- Preventive maintenance on switchgear and generators
- Combined DMM troubleshooting (V, mA, Ω , continuity)
- Field electrical maintenance requiring 500/1000 V insulation tests
- Jobs needing CAT III 1000 V / CAT IV 600 V rated meters

1577 Characteristics / Specifications

PARAMETER	VALUE
Model	1577
Manufacturer	Fluke
Instrument Type	Insulation Multimeter
Alias	Fluke 1577; 1577 Insulation Multimeter
Insulation test voltages	500 V; 1000 V
Insulation resistance range	0.1 MΩ to 600 MΩ
Test voltage accuracy	+20 %, −0 %
Short circuit test current	1 mA nominal
Auto discharge time	<0.5 s for C ≤1 μF
Live circuit inhibit threshold	>30 V
Maximum capacitive load	up to 1 μF
Insulation accuracy 500 V	±(2.0 % + 5 counts)
Insulation accuracy 1000 V	±(2.0 % + 5 counts)
DC voltage max	1000 V
DC voltage accuracy	±(0.2 % + 2)
AC voltage max	1000 V
AC voltage accuracy	60 Hz class: ±(2 % + 3)
AC/DC current max	400 mA
Resistance max	50 MΩ
Continuity	yes
Safety category	CAT III 1000 V / CAT IV 600 V
Size with holster class	203 × 100 × 50 mm
Weight	550 g (624 g with holster class listings)
IP rating	IP40
Operating temperature	−20 °C to 55 °C

PARAMETER	VALUE
Storage temperature	–40 °C to 60 °C
Batteries	four AA alkaline
Battery life meter use	1000 hours
Insulation tests per battery set	≥1000 standard tests class
Warranty	3 years
Altitude operating CAT III/IV	2000 m
Compliance	IEC 61557-1/2 class Notes Specs from Fluke 1587/1577 Insulation Multimeters technical data. Confirm accessories and firmware/display revision on the unit; 1587 features (filter, capacitance, temperature) are not present on 1577.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	−40 °C to 60 °C
Operating temperature	−20 °C to 55 °C
Operating Temperature	−20 °C to 55 °C
Batteries	four AA alkaline
Battery life meter use	1000 hours
Insulation tests per battery set	≥1000 standard tests class
Warranty	3 years
Altitude operating CAT III/IV	2000 m
Compliance	IEC 61557-1/2 class Notes Specs from Fluke 1587/1577 Insulation Multimeters technical data. Confirm accessories and firmware/display revision on the unit; 1587 features (filter, capacitance, temperature) are not present on 1577.

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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PARAMETER	VALUE
Model	1577
Manufacturer	Fluke
Instrument Type	Insulation Multimeter
Alias	Fluke 1577; 1577 Insulation Multimeter
Insulation test voltages	500 V; 1000 V
Insulation resistance range	0.1 MΩ to 600 MΩ
Test voltage accuracy	+20 %, -0 %
Short circuit test current	1 mA nominal
Auto discharge time	<0.5 s for C ≤1 μF
Live circuit inhibit threshold	>30 V
Maximum capacitive load	up to 1 μF
Insulation accuracy 500 V	±(2.0 % + 5 counts)
Insulation accuracy 1000 V	±(2.0 % + 5 counts)
DC voltage max	1000 V
DC voltage accuracy	±(0.2 % + 2)
AC voltage max	1000 V
AC voltage accuracy 50-60 Hz class: ±(2 % + 3)	
Specifications	
PARAMETER	VALUE
AC/DC current max	400 mA
Resistance max	50 MΩ
Continuity	yes
Safety category	CAT III 1000 V / CAT IV 600 V
Size with holster class	203 x 100 x 50 mm
Weight	550 g (624 g with holster class listings)

PARAMETER	VALUE
IP rating	IP40
Operating temperature	-20 °C to 55 °C
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Batteries	four AA alkaline
Battery life meter use	1000 hours
Insulation tests per battery set	≥1000 standard tests class

Warranty: 3 years

Altitude operating CAT III/IV: 2000 m

Compliance: IEC 61557-1/2 class

Notes

Specs from Fluke 1587/1577 Insulation Multimeters technical data. Confirm accessories and firmware/display revision on the unit; 1587 features (filter, capacitance, temperature) are not present on 1577.

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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.