

TECHNICAL DATA

Fluke 1577 Insulation Multimeter



Key features

- Insulation test voltages 500 V, 1000 V
- Insulation test: 0.1 MΩ to 600 MΩ
- Auto discharge of capacitive voltage
- AC/DC Voltage
- DC millivolts
- AC/DC milliamps
- Resistance (0.1 Ω to 50 MΩ)
- Continuity
- Three-year warranty
- Remote probe, test leads, alligator clips
- Rugged, utility hard case
- Auto power off to save battery power
- True RMS
- Large display with backlight
- Live circuit detection prevents insulation test if voltage > 30 V is detected for added user protection
- CAT III 1000V, CAT IV 600V measurement category
- Accepts optional Fluke TPAK™ magnetic hanging system to free your hands for other work

Product overview: Fluke 1577 Insulation Multimeter

Two powerful tools in one

The Fluke 1587 and 1577 Insulation Multimeters combine a digital insulation tester with a full-featured, true RMS digital multimeter in a single, compact, handheld unit, which provides maximum versatility for both troubleshooting and preventative maintenance.

Whether you work on motors, generators, cables, or switch gear, the Fluke 1587/1577 Insulation Multimeters are ideally suited to help you with your tasks and at a cost that is far less than buying the two products.

Specifications: Fluke 1577 Insulation Multimeter

| Specifications | | |
|---------------------------------------|---------------------------|------------------|
| Voltage DC | Maximum voltage | 1000 V |
| | Accuracy | $\pm(0.2\%+2)$ |
| | Maximum resolution | 0.001 V |
| Voltage AC | Maximum voltage | 1000 V |
| | Accuracy | $\pm(2\%+3)$ |
| | Maximum resolution | 0.1 mV |
| Current DC | Maximum amps | 400 mA |
| | Amps accuracy | $\pm(1.0\%+2)$ |
| | Maximum resolution | 0.01 mA |
| Current AC | Maximum amps | 400 mA |
| | Amps accuracy | $\pm(2.0\%+2)^*$ |
| | Maximum resolution | 0.01 mA |
| Resistance | Maximum resistance | 50 M Ω |
| | Accuracy | $\pm(1.2\%+2)$ |
| | maximum resolution | 0.1 Ω |
| Insulation Test | | |
| Minimum test current @ 1k Ω /V | 1 mA | |
| Test voltages | 500, 1000 V | |
| Maximum resistance per test voltage | 50 V | |
| | 100 V | |
| | 250 V | |
| | 500 V | |
| | 1000 V | 600 M Ω |

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| Maximum resolution per test voltage | 50 V | 0.01 MΩ |
| | 100 V | 0.01 MΩ |
| | 250 V | 0.1 MΩ |
| | 500 V | 0.1 MΩ |
| | 1000 V | 0.1 MΩ |
| Accuracy per test voltage | 50 V | ±(3% + 5) |
| | 100 V | ±(3% + 5) |
| | 250 V | ±(1.5% + 5) |
| | 500 V | ±(2.0% + 5) |
| | 1000 V | ±(2.0% + 5) |
| Environmental Specifications | | |
| Operating temperature | -20°C to +55°C | |
| Storage temperature | -40°C to +60°C | |
| Humidity (without condensation) | 0% - 95% (10°C - 30°C) 0% - 75% (30°C - 40°C) 0% - 40% (40°C - 55°C) | |
| Operating altitude | 2000 m | |
| Safety Specifications | | |
| General | IEC 61010-1: Pollution Degree 2 | |
| Measurement | IEC 61010-2-033: CAT IV 600V / CAT III 1000V | |
| Mechanical and General Specifications | | |
| Size | 203 x 100 x 50 mm (with holster) | |
| Weight | 624 g | |
| Warranty | 3 years | |
| Battery life alkaline | Meter use | 1000 hours |
| | Insulation test use | Meter can perform at least 1000 insulation tests with fresh alkaline batteries at room temperature. These are standard tests of 1000 V into 1 MΩ with a duty cycle of 5 seconds on and 25 seconds off. |
| IP rating | IP40 | |

Ordering information



Fluke 1577

Fluke 1577 Insulation Multimeter

Includes:

- Remote probe
- Test leads
- Alligator clips
- Hard case
- Four AA alkaline batteries
- Quick reference guide
- CD rom with manual



Fluke. *Keeping your world up and running.®*

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