

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

|  |  |  |
|--|--|--|
| Maximum resolution per test voltage          | <b>50 V</b>  | 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                    | <b>50 V</b>  | ±(3% + 5)  |
|  | 100 V  | ±(3% + 5)  |
|  | 250 V  | ±(1.5% + 5)  |
|  | 500 V  | ±(2.0% + 5)  |
|  | 1000 V   | ±(2.0% + 5)  |
| <b>Environmental Specifications</b>          |  |  |
| Operating temperature                        | -20°C to + 55°C  |  |
| Storage temperature                          | -40°C to + 60°C  |  |
| Humidity (without condensation)              | 0% - 95% (10°C - 30°C)<br>0% - 75% (30°C - 40°C)<br>0% - 40% (40°C - 55°C) |  |
| Operating altitude                           | 2000 m   |  |
| <b>Safety Specifications</b>                 |  |  |
| General                                      | IEC 61010-1: Pollution Degree 2  |  |
| Measurement                                  | IEC 61010-2-033: CAT IV 600V / CAT III 1000V                               |  |
| <b>Mechanical and General Specifications</b> |  |  |
| Size   | 203 x 100 x 50 mm (with holster)   |  |
| Weight                                       | 624 g  |  |
| Warranty                                     | 3 years  |  |
| Battery life alkaline                        | <b>Meter use</b>   | 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



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