

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) 0% - 75% (30°C – 40°C) 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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