

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 and milliamps
- Three-year warranty

## Product overview: Fluke 1577 Insulation Multimeter

Two powerful tools in one

The Fluke 1577 Insulation Multimeter 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 1577 Insulation Multimeter is ideally suited to help you with your tasks and at a cost that is far less than buying the two products.

## Additional features

- DC millivolts
- Resistance (0.1 Ω to 50 MΩ)
- Continuity

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- 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

## 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 $\Omega$
	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	50 V	
	100 V	
	250 V	
	500 V	
	1000 V	600 M $\Omega$

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)
<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	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.*®

**Fluke Corporation**  
PO Box 9090, Everett, WA 98206 U.S.A.

**Fluke Australia**  
Unit 26, 7 Anella Ave  
Castle Hill, NSW 2154 Australia  
Phone: 61 2 8850-3333  
[www.fluke.com.au](http://www.fluke.com.au)

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