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Fluke 1587/1577 Insulation Multimeters

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Related Products



Fluke 434 Series II Energy Analyzer »



Fluke 810 Vibration Tester »

Overview | Features | Specifications | Models and Accessories | More Info

Specifications	
Voltage DC	**Maximum Voltage:** 1000 V **Accuracy:** 1577: ±(0.2%+2) 1587: ±(0.09%+2) **Maximum Resolution:** 0.001V
Voltage AC	**Maximum Voltage:** 1000 V **Accuracy:** 1577: ±(2%+3) 1587: ±(2%+3) **AC Bandwidth:** 1587: 5kHz* *with low pass filter; 3db @ 800 Hz **Maximum Resolution:** 0.1 mV
Current DC	**Maximum Amps:** 400mA **Amps Accuracy:** 1577: ±(1.0%+2) 1587: ±(0.2%+2) **Maximum Resolution:** 0.01 mA
Current AC	**Maximum Amps:** 400mA **Amps Accuracy:** 1577: ±(2.0%+2)* 1587: ±(1.5%+2)* * 1kHz bandwidth **Maximum Resolution:** 0.01 mA
Resistance	**Maximum Resistance:** 50 MΩ **Accuracy:** 1577: ±(1.2%+2) 1587: ±(0.9%+2) **Maximum Resolution:** 0.1Ω
Capacitance(1587 only)	**Maximum Capacitance:** 9,999 µF **Accuracy:** ±(1.2%+2) **Maximum Resolution:** 1 nF
Frequency (1587 only)	**Maximum Frequency:** 100 kHz **Accuracy:** ±(0.1%+1) **Maximum Resolution:** 0.01 Hz
Temperature Measurement (1587 only)	-40.0 °C to 537 °C -40.0 °F to 998 °F excluding probe
Diode Test (1587 only)	**Range:** 6 V **Resolution:** 1 mV **Accuracy:** ±(2 % + 1)

Insulation Test	
Minimum Test Current @ 1kΩ/V:	1mA
Test Voltages:	**1577:** 500, 1000 V **1587:** 50, 100, 250, 500, 1000 V
Maximum Resistance per	**50V:**

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Test Voltage:	**100V:** **250V:** **500V:** **1000V:** 1577: 600 MΩ 1587: 2 GΩ
Maximum Resolution per Test Voltage:	**50V:** 0.01 MΩ **100V:** 0.01 MΩ **250V:** 0.1 MΩ **500V:** 0.1 MΩ **1000V:** 0.1 MΩ
Accuracy per Test Voltage:	**50V:** ±(3 % + 5) **100V:** ±(3 % + 5) **250V:** ±(1.5 % + 5) **500V:** 1577: ±(2.0 % + 5) 1587: ±(1.5 % + 5) **1000V:** 1577: ±(2.0 % + 5) 1587: ±(1.5 % + 5) to 600 MΩ, ±(10 % + 3) above 600 MΩ

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	
Overvoltage category	Complies with ANSI/ISA 82.02.01 (61010-1) 2004, CAN/CSA-C22.2 NO. 61010-1-04, and IEC/EN 61010-1 2nd Edition for measurement CAT III 1000 V and CAT IV 600 V
Agency Approvals	2000 m CAT III 1000 V, CAT IV 600 V; 3000 m CAT II 1000 V, CAT III 600 V

Mechanical & 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

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