

1550B MegOhmMeter

Digital insulation testing up to 5000 Volts



The Fluke 1550B is a digital insulation tester capable of testing switchgear, motors, generators and cables at up to 5000 V DC. It can be used for a wide range of tests: from simple spot checks to timed tests and breakdown tests. Measurement storage and PC interface software make it ideal for preventive maintenance.

- Test voltages of 250 V, 500 V, 1000 V, 2500 V, 5000 V
- Capable of testing in 50 V increments between 250 V and 1000 V and 100 V increments between 1000 V and 5000 V
- Measures 1 to 5 Tera-Ohm (unspecified)
- Warning voltage function alerts the user that line voltage is present and gives the voltage reading up to 600V AC or DC
- Guard system eliminates the effect of surface leakage current on high-resistance measurements

- Large digital/analog LCD shows detailed measurement data
- Cable or insulation capacitance
- Leakage current
- Ramp function (0-5000 V DC) for breakdown testing
- Timer 1 to 99 minutes
- Polarization index and dielectric absorption calculated automatically
- 99 memory locations store all measurements parameters
- Includes Quicklink 1550B Software and Optical Interface cable

Safety Conformance

All inputs are protected to IEN 61010-1, CAT III, 600 V and the 1550B is compliant to EN 61557 parts 1&2.

Specifications

Test Voltage (DC)	Range	Accuracy (+/- reading)
250V	200kΩ to 5GΩ	5%
	5GΩ to 50GΩ	20%
500V	200kΩ to 10GΩ	5%
	10GΩ to 100GΩ	20%
1000V	200kΩ to 20GΩ	5%
	20GΩ to 200GΩ	20%
2500V	200kΩ to 50GΩ	5%
	50GΩ to 500GΩ	20%
5000V	200kΩ to 100GΩ	5%
	100GΩ to 1TΩ	20%
Short circuit current	greater than 1 mA and less than 2mA	
Bar graph range	0 to 1TΩ	
Insulation test voltage accuracy	0% to + 10% at 1mA load current	
Induced AC mains current rejection	2 mA maximum	
Charging rate for capacitive load	5 seconds per μF	
Leakage current	1nA to 2mA	± (5% + 2nA)
Capacitance measurements	0.01μF to 15.00μF	± (15% rdg + 0.03μF)
Live circuit indicator	30V to 600V AC/DC, 50/60Hz	± (5% + 2V)
Timer increments; indicated to within 1 second	1 to 99 minutes; settable in 1 minute	
Ramp	0% to 100% of selected test voltage, or until breakdown.	

Accessories and Ordering Information

Included Accessories

Test leads, 5000 V-rated probes, Alligator clips, Interface cable
Quicklink 1550B PC software, soft carrying case with water-proof bottom, instruction manual

Ordering Information

Fluke 1550B MegOhmMeter

Operating Temperature: -20°C to 50°C

Storage Temperature: -20°C to 65°C

Relative humidity: 80% at 31°C, 50% at 50°C

Dust/water resistance: IP40

Operating Altitude: 0 to 2,000 mtrs.

Batteries: 12 volt, lead-acid, rechargeable

Size: 330 x 242 x 170 mm

Weight: 4 kg (with battery)

Two Year Warranty