

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 5GΩ to 50GΩ | 5% 20% |
| 500V | 200kΩ to 10GΩ 10GΩ to 100GΩ | 5% 20% |
| 1000V | 200kΩ to 20GΩ 20GΩ to 200GΩ | 5% 20% |
| 2500V | 200kΩ to 50GΩ 50GΩ to 500GΩ | 5% 20% |
| 5000V | 200kΩ to 100GΩ 100GΩ to 1TΩ | 5% 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