



Insulation Resistance Meter (Digital High-Voltage Megohmmeter)

Product Overview

A high-performance digital insulation resistance tester designed for precise measurement of insulation resistance up to 500 G Ω . Equipped with advanced features for fast, stable readings, and automatic diagnostic calculations, this instrument ensures efficient, safe testing of electrical insulation in industrial and utility environments.

Key Features

- Measures insulation resistance up to **500 G Ω** with fast, stable readings
- **Automatic calculation** of Polarization Index (PI) and Dielectric Absorption Ratio (DAR) for detailed insulation condition assessment
- High-efficiency design capable of up to **1300 measurements** at 2500 V and **6500 measurements** at 250 V on a single charge
- Safety-first design including **dangerous voltage alarm** compliant with **CAT IV 600 V standard** and China power industry specifications (DLT845)
- Rugged, reliable construction that meets specifications under harsh conditions (up to 50°C and 80% relative humidity)
- Tested durability with **30,000 mating tests** for all probes and ports ensuring long-lasting reliability
- Additional features inspired by Fluke 1537 model:
 - AC/DC voltage and resistance measurement capability
 - Short-circuit current > 5 mA for fast, accurate testing
 - Fine-tunable test voltage adjustable from **250 V to 2500 V** in 100 V steps
 - Step mode with linear increment of test voltage (100 V/s) and breakdown

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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voltage indication

- Automatic calculation of Dielectric Discharge rate (DD) to detect subtle insulation faults, especially in multilayer insulation

Technical Specifications

Parameter	Specification
Insulation Resistance Range	Up to 500 GΩ
Test Voltage Range	250 V to 2500 V (adjustable, 100 V steps)
Measurement Modes	Fast measurement, Step voltage mode
Diagnostic Calculations	Polarization Index (PI), Dielectric Absorption Ratio (DAR), Dielectric Discharge Rate (DD)
Safety Compliance	CAT IV 600 V, China power industry standard DLT845
Short Circuit Current	>5 mA
Operating Environment	Up to 50°C, 80% RH
Durability	30,000 mating tests for connectors
Additional Measurements	AC/DC voltage, resistance

Applications

Ideal for testing insulation resistance in:

- Power distribution and transmission systems
- Industrial electrical equipment
- Motors, cables, transformers, and switchgear
- Maintenance and troubleshooting in utility and industrial environments

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