



IT 55 insulation meter

CAT III 1000V / for insulation resistance up to 2000 MΩ



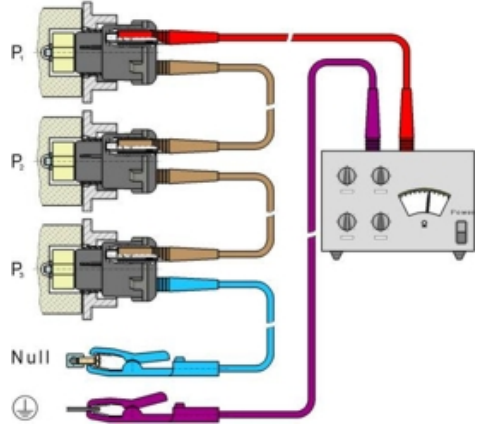
The IT 55 insulation meter determines insulation resistance up to a maximum of 2000 MΩ (for auxiliary voltages of 250, 500 and 1000V). This insulation meter also offers the ability to measure alternate and continuous currents up to a maximum 750V / 1000V and resistance up to 2 kΩ. Includes test current and a warning whistle. Readings can be stored by pressing a single key. The device meets with these standards: DIN 57 411 part 1 / VDE 0411 part 1, protective measures for electronic devices (IEC1010-1) and DIN VDE 0413 (insulation meters). It comes calibrated from the manufacturer and an optional laboratory calibration and ISO certificate can be ordered separately for annual recalibrations.

- Meets the standards: IEC1010-1, CAT III 1000 V
- Has a large dual, backlit display
- Individual or prolonged measurements can be made by pressing the "lock" key
- Indicates overload and battery level
- Auto shut of to conserve battery power
- Comes ready to use in its own carrying case
- optional ISO calibration certificate



Technical specifications

Measurement ranges:	Voltage AC Voltage DC Resistance Insulation resistance	0 ... 750 V 0 ... 1000 V 0 ... 200 Ω / 200 ... 2000 Ω 0 ... 200 MΩ / 200 ... 2000 MΩ
Resolution	Voltage AC Voltage DC Resistance Insulation resistance	1V 1V 0.1 Ω / 1 Ω 100 kΩ to 1 MΩ
Accuracy	Voltage AC Voltage DC Resistance Insulation resistance	±1.2% ±10 digits ±0.8% ± 3 digits ±1.0% ± 2 digits ±3.5% ± 5 digits
Test voltages		250V - 200 MΩ 500V - 200 MΩ 1000V - 2000 MΩ
Test current		whistle: ≤40 Ω, test current ≤200mA
Power		6 AA batteries
Operating conditions		0 to 40°C / <80% r.h.

Dimensions	200 x 92 x 50mm
Weight	700g
Standards	IEC10101, CAT III 1000V
Contents PCE-IT 55 insulation meter, test cables, extractable clamp with 1m cable, 6 batteries, carrying case and user's manual (see image)	
Optional accessories - Calibration certificate, meeting with DIN ISO 9000. The certification includes a laboratory calibration and a test certificate containing all the measurement values.	
	Information about insulation meters: The measurement of insulation should be done for new installations, upgrades, changes or repairs. It is also necessary to repeat measurements at pre-determined times for industrial machinery. In the private sector, it is important to periodically check the condition of installations, in case the insulation value deteriorates due to aging, climatic conditions or general wear and tear.
Value limits to consider when measuring insulation <ul style="list-style-type: none"> • for new installations (dry spaces): $1000 \Omega \times V$ of the operating voltage (eg. $230V > 230k\Omega$) • for new installations (humid spaces, open air): $500 \Omega \times V$ of the operating voltage • grounded device: $1000 \Omega \times V$ of operating voltage • device with insulation protector: $2 M\Omega$ • electrical tools: $2 M\Omega$ • low voltage: $250 k\Omega$ • electrical meters: $5 M\Omega$ <p>The values of test voltages are usually 100V for installations with low voltages and telecommunication installations, 500V for installations in buildings and houses and 1000V for low voltage engines and transformers.</p>	

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