

Dielectrotest

Transformers testing



The complete standardised test, from sample stirring to the printed report

Dielectrotest

Dielectric strength meter for insulating oil

amperis

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Fully automatic measurement of the breakdown voltage of insulating liquids.

Product overview



Test chamber with the glass vessel and the electrodes

Up to 100 kV, with no operator intervention

The Dielectrotest determines the dielectric strength of insulating oils with test voltages up to 100 kV. The standard is chosen from the menu, the set displays the required electrode type and spacing, and the whole sequence runs automatically.

A switch-off that protects the sample

After breakdown, the high voltage is disconnected in less than 1 ms, avoiding carbonisation of the oil; the set indicates the individual breakdown values, the average value and the standard deviation.

Main features

- Pre-programmed national and international standards.
- Up to 10 user-defined test sequences.
- 400 ml glass test vessel with magnetic stirrer.
- Mushroom, sphere or disc electrodes, with adjustable spacing.
- Safety interlock on the chamber lid.
- Electromagnetically shielded test chamber.



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Software and reporting



Built-in thermal printer and graphic display of the panel

A printed report after every test

The built-in thermal printer issues a report with the applied standard, date and time, sample temperature and number, the individual breakdown values, the average and the standard deviation. The last 20 tests remain in memory and can be retrieved and printed.

Results archived on the computer

The results are downloaded to the PC via Bluetooth or the RS-232 serial interface with the data capture software, which stores them in spreadsheet format; the operator configures his own test protocol formats.

Guidance in the operator's language

The backlit graphic display and the four keys F1 to F4 guide the operation through a multi-language menu, with a dialog for entering the sample temperature and number.



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DIELECTROTEST – MEASUREMENT DATA

Test voltage	Up to 100 kV
Switch-off at breakdown	Less than 1 ms, against carbonisation of the sample
Test standards	Pre-programmed IEC and ASTM sequences (IEC 60156; electrodes to ASTM D877)
Rates and times	Defined by the sequence of the selected standard
User sequences	Up to 10, freely defined
Results	Individual breakdown values, average value and standard deviation
Electrodes	Mushroom, sphere or disc; adjustable spacing
Gap gauges	2 and 2.5 mm, included
Sample	400 ml glass vessel, with lid and magnetic stirrer

Before the test, the set displays the electrode and spacing required by the chosen standard.
The sample temperature and number are integrated into the printed report.



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DIELECTROTEST – TECHNICAL SPECIFICATIONS

Type	Automatic dielectric strength meter, portable
Use	Laboratory and field: commissioning and maintenance
Display	Graphic, with backlight
Operation	4 function keys F1 to F4; multi-language menu
Recording	Built-in thermal printer; memory of the last 20 tests
Communication	Bluetooth and RS-232 serial interface for PC download
PC software	Capture and archiving of results in spreadsheet format
Safety	Interlock cutting the high voltage when the lid opens
Housing	Rugged, with shielded test chamber
Standard accessories	400 ml vessel, 2 stirrer rods, gap gauges, tweezers, thermal paper
Optional accessories	Mushroom, sphere or disc electrodes; thermal paper; PC software



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