

KGT OTD Automatic Transformer oil Tan Delta & Resistivity Tester



Features

- The oil cup adopts a three-electrode structure that complies with the national standard GB/T5654-2007, with an electrode spacing of 2mm, which can eliminate the influence of stray capacitance and leakage on the dielectric loss test results. It has an oil discharge electromagnetic switch, which can empty the sample oil in the cup without disassembling the cup, and can flush the cup with sample oil.
- The instrument adopts medium frequency induction heating and PID temperature control algorithm. This heating method has the advantages of non-contact between the oil cup and the heating element, uniform heating, fast speed, and convenient control, ensuring that the temperature is strictly controlled within the preset temperature error range.
- The internal standard capacitor is a three-electrode capacitor filled with SF₆ gas. The dielectric loss and capacitance of this capacitor are not affected by environmental temperature, humidity, etc., ensuring the accuracy of the instrument even after long-term use.
- The AC test power supply adopts the AC-DC-AC conversion method, effectively avoiding the influence of fluctuating mains voltage and frequency on the accuracy of the dielectric loss test. Even when powered by a generator, the instrument can operate correctly.
- The instrument has perfect protection functions. When there is overvoltage, overcurrent, or high-voltage short circuit, the instrument can quickly cut off the high voltage and issue a warning message. When the temperature sensor fails or is not connected, a warning message is issued.
- There is a temperature limit relay in the medium frequency induction heating furnace. When the temperature exceeds 120 degrees, the relay is released and the heating stops.
- It adopts a large-screen LCD display, with a user-friendly interface. By following the prompts and inputting commands in Chinese menus, the instrument can automatically perform tests. It can also automatically store and print test results.
- It has a built-in real-time clock, and the test date and time can be saved, displayed, and printed along with the test results.
- It has a calibration function for the empty electrode cup. It measures the capacitance and dielectric loss factor of the empty electrode cup to determine the cleaning and assembly condition of the cup. The calibration data is automatically saved to facilitate the accurate calculation of relative permittivity and DC resistivity.



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Specification

Power Voltage	AC220V \pm 10%
Power Frequency	50Hz/60Hz \pm 1%
Measuring Range	
Capacitance	5pF ~ 200pF
Relative Permittivity	1.000 ~ 30.000
Dielectric Loss Factor	0.00001 ~ 100
Dc resistivity	2.5 M Ω m ~ 20T Ω m
Measurement Accuracy	
Capacitance	\pm (0.5% reading +0.1pF)
Relative Permittivity	\pm (0.5% reading +0.1pF)
Dielectric Loss Factor	\pm (0.5% reading +0.0001)
Dc Resistivity	\pm 10% reading
Resolution	
Capacitance	0.01pF
Relative Permittivity	0.001
Dielectric Loss Factor	0.00001
Resistivity Resolution	0.001M Ω m
Temperature Range	0 ~ 125 $^{\circ}$ C
Temperature Measurement error	\pm 0.5 $^{\circ}$ C
Ac test Voltage	500 ~ 2200V continuous adjustable frequency 50Hz
Dc test Voltage	0 ~ 500V continuously adjustable
Power Dissipation	500W
Dimension	470*425*385mm
Weight	22kg

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