

FT-YJS-060

INSULATING OIL TAN DELTA TEST SYSTEM

INTELLIGENT ☒ AUTOMATIC ☒ PORTABLE ☒

■ Introduction



FT-YJS-060 Automatic Insulating Oil Dielectric Loss and Resistivity Tester

designed according to ASTM D924 and GB/5654 standards, which it is used for measuring dielectric dissipation factor and DC resistivity of insulating oil and other insulating liquids. The instrument integrates with test oil cell, temperature controller, temperature sensor, dielectric loss test bridge, AC test power, standard capacitor, high resistance meter, DC high voltage source and other major components.

Transformer oil dielectric loss testing equipment is used both at the stage of checking the quality of oil before feeding it into the transformer and during the use of oil in the transformer.

The primary enemies of transformer oil are oxidation, contamination, and excessive temperature. High values of Tan Delta commensurate with reduced levels of Resistivity indicate the presence of polarised contaminants, such as moisture, particles and fibres. This testing is a sensitive way to check for contamination when purchasing unused new oil, determining the progress of the oil purification process and for quality control of oil in service.

This instrument adopts digital technology, intelligent automatic measurement, equipped with a large screen color touch screen, full English menu displays tips for each step, test results can be printed, the operator does not need to be skilled in the use of professional training.

■ Main Functions and Characters

1. The test cell adopts the three-electrode structure with electrode spacing 2mm, which can eliminate the effects of the stray capacitance and leakage on dielectric loss test results.
2. The instrument adopts the medium frequency induction heating, PID temperature control algorithm. This heating method has the advantages of non-contact between the test cell and the heating body, uniform heating, fast speed, convenient control, and strictly control of the temperature within error range of the preset temperature.
3. Internal standard capacitor is SF6 gas-filled three-electrode capacitance, and its capacitor dielectric loss and electrical capacity are not affected by ambient temperature, humidity etc., so that the instrument accuracy can be ensured even after prolonged use.
4. AC test power supply uses AC-DC-AC conversion, which effectively prevents the fluctuations in mains voltage and frequency from affecting the dielectric loss measurement accuracy. Even use a generator, the instrument can work properly.
5. Perfect protection function. When there is over voltage, over current or high-voltage short circuit, instruments can quickly cut off high voltage, and issues a warning message. When the temperature of the sensor failure or not connected, the instrument will also issue a warning message.
6. Convenient test parameter setting. Temperature setting range 0~120°C, AC voltage setting range 500~2200V, DC voltage setting range 300~500V.
7. Using of large TFT touch screen, with backlight and clear display. With simply set up, the instrument can be automatically tested. And automatically store and print test results.
8. Built-in real-time clock, the test date and time can be saved, displayed and printed with the test results.
9. Empty electrode cup calibration function. Measure the capacitance and dielectric loss factor of the empty electrode cup to determine the cleaning and assembly status of the empty electrode cup. The calibration data is automatically saved to facilitate accurate calculation of relative permittivity and DC resistivity.
10. **Automatic Oil Drain and Clean of the Oil Cup.**

■ Parameters

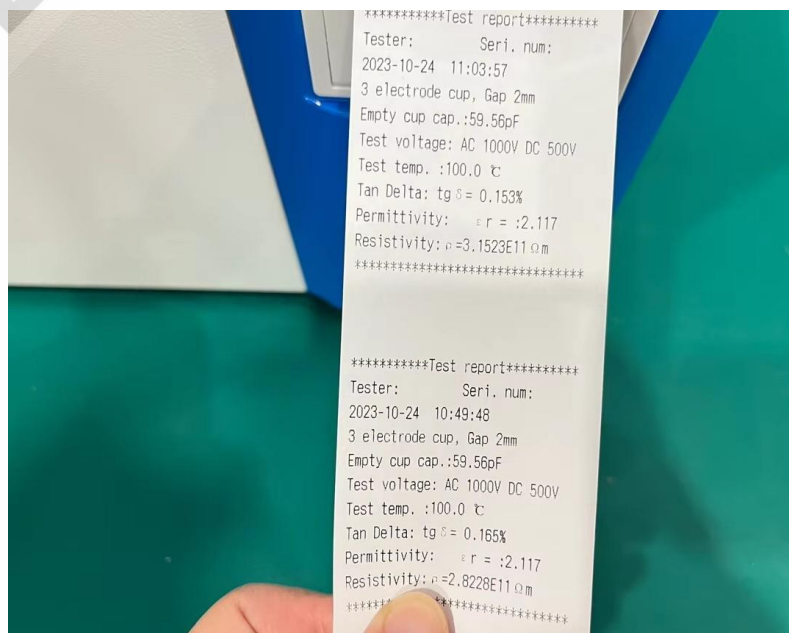
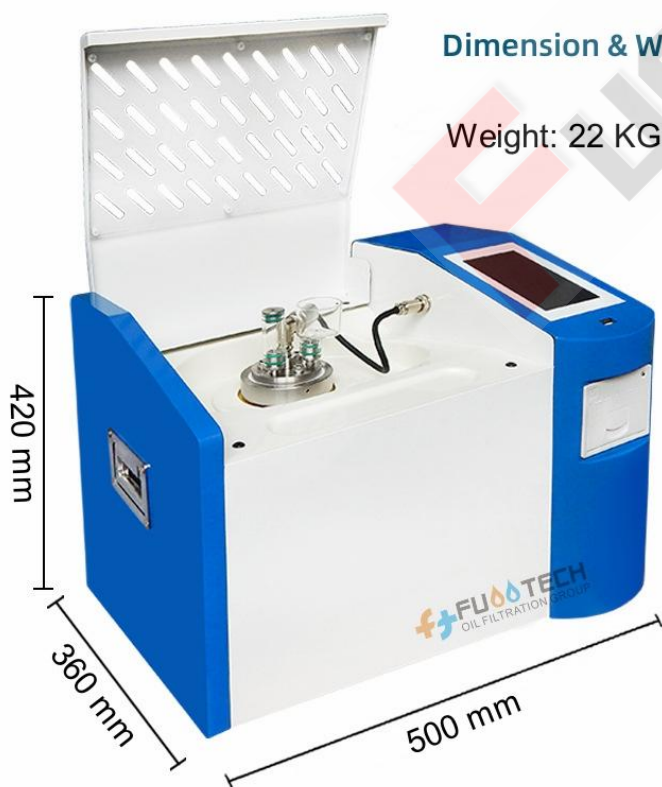
Voltage supply	AC 220V±10%
Power frequency	50Hz/60Hz ±1%
Measuring range	
Capacitance	5pF~200pF
Relative Permittivity	1.000~30.000
Dielectric loss factor	0.00001~100
DC Resistivity	2.5MΩm~20TΩm
Measuring accuracy	
Capacitance	± (1% of reading+0.5pF)
Relative Permittivity	± (1~10)% of reading
Dielectric dissipation factor	± (1% of reading+0.0001)
DC Resistivity	±10% of reading
Resolution	
Capacitance	0.01pF
Relative permittivity	0.001
Dielectric dissipation factor	0.00001
Measured temperature range	0~120°C
Temperature measurement error	±0.5°C
AC Test Voltage	500~2200V Continuously adjustable, frequency: 50Hz
DC Test Voltage	300~500V Continuously adjustable
Power consumption	100W
Ambient temperature	0°C~40°C
Relative humidity(RH)	<75%
Dimension	500mm × 360mm × 420mm
Weight	22KG

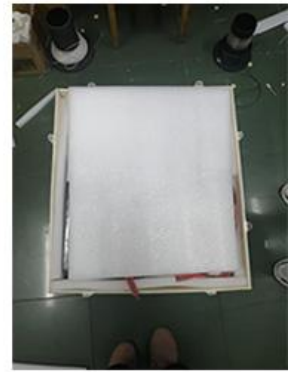
■ More Details



Dimension & Weight

Weight: 22 KGS





Payment

T/T L/C 支 Alipay™ WeChat Pay

