

LC-2KV

AUTOMATIC TRANSFORMER OIL TAN DELTA TEST SET

The LC-2KV automatic transformer oil tan delta test set designed and manufactured according to GB/ T5654-2007 "measurement of relative capacitance, tan delta and dc resistivity of liquid insulation materials". Used for measuring tan delta and dc resistivity of insulating liquid dielectric such as insulating oil. Integrated structure. Internal integration of tan delta oil cup, temperature controller, temperature sensor, tan delta test bridge, ac test power source, standard capacitor, high resistance meter, dc high voltage source and other main components. The LC-2KV test set is equipped with a 5.7-inch TFT pure color LCD touch screen and a English menu. The test results can be stored and printed out automatically. The operator can use it skillfully without professional training.

Function & Features

- 1. Stable output voltage;
- 2. Built-in real-time clock;
- 3. With USB, RS232 port;
- 4. High speed RAM9 platform;
- 5. Voltage resolution and accuracy ±1%;
- 6. Insulating oil tan delta & Resistivity test;
- 7. Empty cup electrode calibration function;
- 8. Electromagnetic compatibility concept(EMC);
- 9. Standard GB/T5654-2007, IEC 60247, IEC 61326;
- 10. Adopted 5.7 inch pure color TFT LCD touch screen display;
- 11. Internal standard capacitor for SF6 inflatable three pole type capacitor;
- 12. Voltage setting range 200 ~ 2200V AC, 0 ~ 500V DC voltage setting range;
- 13. Medium frequency induction heating, PID temperature control algorithm;



- 1. Universities;
- 3. Power plant;
- 5. Research institutes:
- 7. Insulation oil factory;
- 9. Electrical testing center;
- 11. Transformer manufacturers;

- 2. ISO17025 Electrical laboratory;
- 4. Railway electrical department;
- 6. Electricity power bureau & power company;
- 8. Power engineering commissioning company;
- 10. Electrical department of industrial and mining enterprises;





Parameters

Electrical parameters		
Power supply	AC 220V±10% or 110V±10%, 50/60HzAC	
Test AC Voltage output range	200-2200V	
Test DC Voltage output range	0-500V	
Accuracy	2%	
Tan Delta		
Measurement range	1x10 ⁻⁶ to 100	
Resolution	1×10 ⁻⁶	
Accuracy	± 1% reading ± 1 x 10 ⁻⁵	
Capacitance		
Measurement range	5pF - 200pF	
Resolution	0.01pF	
Accuracy	±1% reading ±0.5pF	
Relative Permittivity		
Measurement Range	1 to 30	
Resolution	0.01	
Accuracy	±0.5%	
Resistivity Measurement		
Measurement Range	2.5 MΩm to 100 TΩm	
Resolution	0.01	
Accuracy	2%	
Test Temperature		
Range	0 °C to 120 °C	
Resolution	0.1 °C	
Accuracy	±1°C	
Programmable	Yes	
LCD	5.7 inch touch TFT LCD	
Communication	RS232 and USB port	
IP Rating	IP30	
Storage data	1000sets	
Printer	internal installed 58mm wide thermal printer.	
Standard	IEC 61326, IEC61010, GB/T5654-2007, IEC 60247,	
	ASTM D924-08 or D1169:2002	
Mechanical parameters		
Dimension (L×W×H) (mm)	460x370x330	
Weight (kg)	25	



Parameters

Environmental conditions	
Operating temperature	-10°C to 50°C
Storage temperature	-40°C to 70°C
Relative humidity	≤90%RH non-condensing