SG7501

Oil Dissipation Factor and Resistivity Meter

SG7501 Oil Dissipation Factor and Resistivity Meter is used to measure dissipation factor, dielectric constant and resistivity for oil. The set is all-in-one structure, with internal oil cup, temperature control, AC bridge, high resistance meter, AC/DC test voltage and standard capacitor etc.

SG7501 is equipped with full digital technique, full automatic measurement, easy to operate and stable in performance. Test results are displayed on a large LCD and output with a micro printer.

SG7501 is totally arrive the international standards, design is according to the IEC247. Strong protection design is also been think in our design, it include the over voltage, over current, short circuit protection, fault alarm etc.

Our oil cup use the new design, compare to RY-1 and Haefely oil cup, our capacity of the oil cup is 35ml, we decrease the quantity of the components, also the size. It has the easy clean, low weight, easy move when it is be heated. The other advantage is the capacitance of the oil cup is also decrease a lot, from 60pF to 50pF.

Features

Easy to Operate

- Small cup easy to assemble, use an injector to inject or suck up oil, clean and quick to operate.
- Only 35ml is needed for one test, excessive oil flow to the waste oil cup.
- There is no necessity to disassemble cup or stop temperature control while replacing oil.
- Easy to carry for small and light, suit to on-the-spot test.

High Accuracy

- 2 channel individual temperature controllers ensure to get even temperature.
- The unique cup structure enables good repeat stability for cup installation.
- Advanced precise micro-current bridge makes the set very small in size.
- High accuracy, being up to the standard of《GB/T 5654-1985》.

Full Automatic with strong Functions

- Temperature control--DF/dielectric constant test--resistance/resistivity test--display/print, all steps are proceeded automatically.
- The set has repeat test function for the same oil specimen in the cup.
- Computer interface for test, data process, or software upgrade of the set.
- Big LCD and internal calendar clock.

Safety

- Test voltage is designed with small power

components. The maximum output current is less than 10mA and will shut off within 10mS in fault state. This test power is isolated to main power.

- Heating power is isolated to main power.

Specification

Capacitance	
Range:	1pF ~ 200pF
Resolution:	0.001pF
Accuracy:	±1% of the reading±0.001pF

Dielectric constant	
Range:	1.0-10.0
Accuracy:	±1% of the reading

Dissipation Factor tanδ	
Range:	0-4.910
Resolution:	0.0001
Accuracy:	±1% of the reading±0.0001

Resistivity	
Range:	2MΩ～2TΩ
Accuracy:	±10% of the reading

Test Voltage	
AC Test Voltage:	1000V~2500V (RMS)
Frequency:	50/60Hz (crystal time based)
DC Test Voltage:	500V

System	
Computer interface:	RS232
Internal Printer:	Epson

Cup Parameters:	
Controlled Cup Temperature:	10~120 degree centigrade
Electrode space between: 10ml volume)	2mm gap (3 electrodes,
Empty Cup capacitance:	50±5pF
Empty Cup DF:	< 0.005%

Environmental Conditions	
Operating Temperature:	-10° C ~ 40° C
Humidity:	< 90%

Power Supply	
Voltage:	220V±10%
Frequency:	50/60Hz
Power:	300W

Weight and Dimension	
Dimensions:	50×250×300 (W x H x D)
Weight:	9kg

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