

GD6800 Capacitance and Dissipation Factor Tester



Product Description

GD6800 measures the capacitance and dielectric loss factor ($\text{tg}\delta$) of high voltage electric equipment. It is integrated structure, built-in dielectric loss test bridge, variable frequency adjustable power supply, boosting transformer and SF6 standard capacitor.

High voltage source is generated by internal inverter of the instrument, which is used for testing test object after transformer boost. If adding a insulation cup and temperature control device, dielectric loss of insulating oil can be tested.

Features

- Touch LCD screen display.
- Calendar chip and large storage inside. Save testing result according to time order, check history record and print the result.
- The instrument data can be exported through U disk, and can be used to view and manage the data through the software on PC.
- Multiple testing mode, with modes of inside high voltage, outside high voltage, inner standard, external standard, GST/UST, self-excitation. High voltage(more than 10kV) dielectric loss test can be made in the situation of external standard outside high voltage.
- Test full sealed CVT (Capacitive Voltage Transformer) C_1 and C_2 dielectric loss and capacitance at the same time. Also test CVT transformation ratio and voltage angle difference.
- The dielectric loss and capacitance value of C_0 in the upper end of CVT can be measured by using the reverse shielding method.
- High speed sampling signal. Inverter and sampling circuit inside are digitized controlled. Output voltage is adjusted continuously.
- LCR automatic measurement. Inductance, capacitance, resistance can be measured and displayed.
- Multiple protection of input voltage fluctuation, output short circuit, over-voltage, over-current, temperature, secure and reliable. Meanwhile, it has the function of grounding testing, that voltage boost is not permitted for non-grounding equipment.
- No need to dismantle HV lead to measure dielectric loss and capacitance of CVT.

- Frequency can be changed into 50Hz, 47.5Hz/52.5Hz, 45Hz/55Hz, 60Hz, 57.5Hz/62.5Hz, 55Hz/65Hz.

Specifications

Working condition	-15°C~40°C	RH<80%
Anti-interference principle	Frequency conversion	
Power supply	AC 220V±10%	Generator can be used.
High voltage output	0.5KV~10KV	Every 0.1kV
	Accuracy	2%
	Max. current	200mA
	Capacity	2000VA
Self-excitation power	AC 0V~50V/15A	45HZ/55HZ 47.5HZ/52.5HZ 55HZ/65HZ 57.5HZ/62.5HZ

		Automatic dual frequency	
Resolution	tgδ: 0.001%	Cx: 0.001pF	
Accuracy	Δtgδ: ±(reading*1.0%+0.040%)		
	ΔC x: ±(reading*1.0%+1.00PF)		
Measurement range	tgδ	Without limit	
	C x	15pF < Cx < 300nF	
	10KV	Cx < 60 nF	
	5KV	Cx < 150 nF	
	1KV	Cx < 300 nF	
	CVT test	Cx < 300 nF	
	LCR measurement range	L>20H(2kV)	R>10KΩ(2kV)
LCR measurement accuracy	0.1%	Angle resolution	0.01
CVT ratio range	10~10000		

CVT ratio accuracy	0.1%
CVT ratio resolution	0.01
Dimension	Main unit: 350(L)×270(W)×270(H)
	Accessory box: 350(L)×270(W)×160(H)
Memory capacity	200 groups, USB flash disk storage is supported.
Weight	Main unit: 22.75Kg
	Accessory box: 5.25Kg