RD6001 Capacitance & Tan Delta Tester

Capacitance & Tan Delta Tester is a high-precision instrument for testing the dielectric loss tangent and capacitance of various high-voltage power equipment in power plant, substation and other field or laboratory. The Capacitance & Tan Delta Tester is an integrated structure with built-in dielectric loss test bridge, variable frequency voltage regulating power supply, step-up transformer and SF6 high stability standard



Website: www.hvtesters.com

capacitor. The test high-voltage source is generated by the inverter inside the instrument, which is used to test the tested object after boosting by the transformer. The test frequency can be 50Hz, 60Hz, 45Hz/55Hz, 55Hz/65Hz, 47.5Hz/52.5hz. The digital notch technology avoids the interference of power frequency electric field on the test, and fundamentally solves the problem of accurate measurement under the interference of strong electric field.

Product features

1. Full touch large LCD

It is easy to operate. The instrument is equipped with high-end full touch LCD and super large full graphic operation interface. Every process is clear, and the operator can use it without additional professional training. It is an ideal intelligent measuring equipment at present.

2. Data storage

The instrument is equipped with a calendar chip, which can save the test results in chronological order, view the historical records at any time, and print them out.

Rui Du Mechanical and electrical (Shanghai) Co., Ltd

3. Multiple test modes

The instrument can be tested by internal high voltage, external high voltage,

Website: www.hvtesters.com

internal standard, external standard, positive wire method (UST), negative wire

method (GST), positive and negative with measure (GST-G), self-excitation

method and other methods. High voltage (greater than 10kV) dielectric loss can be

achieved under external

4. CVT test by one step at a time

The instrument can also test the dielectric loss and capacitance of CVT (capacitive

voltage transformer) C1 and C2, realizing the simultaneous test of C1 and C2. The

instrument can also test the CVT ratio and voltage Angle difference.

5. Measure CVT without removing high voltage lead

The instrument can correctly measure the dielectric loss and capacitance of CVT

without removing the high voltage lead.

6. CVT reverse shielding method for measuring C0

The instrument can measure the dielectric loss and capacitance of C0 at the upper

end of CVT by reverse shielding method.

7. High speed sampling signal

The inverter and sampling circuit inside the instrument are all digitally controlled,

and the output voltage is continuously adjustable.

8. Multiple protection, safe and reliable

The instrument has multiple protection measures such as input voltage fluctuation,

output short circuit, over-voltage, over-current and temperature to ensure the safety

and reliability of the instrument. The instrument also has grounding detection

function to ensure that ungrounded equipment is not allowed to boost voltage.



Product specifications and technical parameters

Website: www.hvtesters.com

Picture		
Model		RD6001
Anti-interference principle		Frequency conversion method
High voltage output		Range: 0.5kV ~ 10kV, Accuracy: 2%, Maximum current:
		200mA, Capacity: 1500VA
CVT test auto- exciting output		AC 0 ~ 50V/15A
Dielectric loss	tgδ	Range: unlimited , Accuracy: ±(reading*1.0%+0.040%) , Resolution: 0.001%
	Cx	Range: 15pF < Cx < 300nF, Accuracy:
capacitance		\pm (reading*1.0%+1.00pF), Resolution: 0.001pF
test		Cx < 40nF @ 10kV , Cx < 150nF @ 5kV , Cx < 300nF @ 1kV ,
		Cx < 300nF @ CVT tes
CVT ratio test		Range: 10 ~ 10000, Accuracy: 0.1%, Resolution: 0.01
Test frequency		50Hz , 60Hz , 45Hz/55Hz , 55Hz/65Hz , 47.5Hz/52.5Hz
Data storage		200 groups, support U disk data storage
Service condition		Temperature: -15°C ~ 40°C , Humidity: < 80% RH
Power supply		AC 220V±10%, 50Hz



Related Products





Website: www.hvtesters.com

RD6001

RD6000A



Rui Du Mechanical and electrical (Shanghai) Co., Ltd



TEL: +86-021-68769756 Contact: Nico Zhou Position: Sales Manager

Email: sales@hvtesters.com
Website: www.hvtesters.com

Mob/ WhatsApp: +86-136 6190 8522