

RD6000A Tan Delta Test Set

RD6000A Tan Delta Test Set breaks through the traditional bridge measurement mode, adopts frequency conversion power supply technology, uses single chip computer and modern electronic technology to automatically convert frequency, analog/digital conversion, and data operation; achieves strong anti-interference ability, fast testing speed, high accuracy, fully automatic digitization, and easy operation; automatic filter 50Hz interference, suitable for field testing of sizeable electromagnetic interference such as substations. It is widely used in the power industry's dielectric loss measurement of the transformers, transformers, bushing, capacitors, arresters, and other equipment.



Product Features


1. The instrument uses Fourier transform digital filtering technology to measure capacitance, dielectric loss, and other parameters. The test result has high precision and is easy to realize automatic measurement.
2. The Tan Delta Test Set adopts frequency conversion technology to eliminate 50Hz power frequency interference in the field. Thus, reliable data can be measured even in an environment of substantial electromagnetic interference.
3. It is easy to operate with a full-touch LCD screen. The super-full graphics operation interface makes each process very clear so operators can use it without additional professional training. The whole process can be measured by touch.
4. Storage data: It is equipped with a calendar chip and a large-capacity memory, which can save the test results, view the historical records at any time, and print them out. The current time and storage time can be displayed and printed anytime.
5. Scientific and advanced data management: Instrument data can be exported through a U disk

- and viewed and managed on any PC by special software.
6. The instrument is easy to operate, and a microprocessor controls the measurement process. As long as the appropriate measurement mode is selected, the data can be measured automatically under the microprocessor's control.
 7. The integrated model, with a standard capacitor and high-voltage power supply, is convenient for field tests and reduces field wiring.
 8. It has the function of low voltage shielding for reverse wiring. Under the condition of 220 kV CVT bus grounding, it can measure the dielectric loss of 110 kV reverse wiring without disconnection.
 9. IT can perform an AC voltage withstand test. It is convenient for PT and CT to perform an AC voltage withstand test twice and a 400V low-voltage system to perform a voltage withstand test.
 10. It can identify the frequency of an external high-voltage power supply from 40Hz to 70Hz and allow large capacity and high-voltage dielectric loss tests with a power frequency power supply or a series resonant power supply.
 11. It functions like a CVT test and can realize its self-excitation test. It can set four protection restrictions, high voltage/current and low voltage/current, to ensure people's and equipment's safety.
 12. When testing CVT, the capacitance and dielectric loss values of C1 and C2 can be automatically tested, and the total capacitance and dielectric loss values of CVT equipment can be tested.
 13. A thermal printer can print out a calendar clock to facilitate users' production of test reports with U disk output.
 14. Grounding protection function. When the instrument is not grounded or is poorly grounded, it does not enter the standard procedure and does not output high voltage. Overcurrent protection function: The instrument will not be damaged when the sample is short-circuited or breaks down.
 15. Electric shock protection function. When the instrument operator accidentally causes an electric shock, the instrument immediately cuts off the high voltage to ensure the safety of the

test personnel.



Product specifications and technical parameters

Picture		
Model	RD6000A	
No.	Parameter	Specification
1	Accuracy	$C_x \pm (\text{reading} \times 1\% + 1\text{pF})$; $\text{tg}\delta \pm (\text{reading} \times 1\% + 0.00040)$
2	Anti-interference index	Frequency conversion anti-interference, in 200% interference can still achieve the above accuracy
3	Capacitance range	Internal high voltage: 3pF60000pF/10kV; 60pF1μF/0.5kV External high voltage: 3pF1.5μF/10kV; 60pF30μF/0.5kV Resolution: maximum to 0.001pF, 4 significant digits
4	tgδ range	No limitation, resolution 0.001%, capacitance, inductance, resistance can be automatically identified
5	Test current range	10μA~5A
6	Internal high voltage	Voltage setting range: 100V~10kV adjustable, resolution 1V Maximum output voltage: 200mA
7	External high voltage	UST test mode: Maximum test current 5A, frequency 40~70Hz GST test mode: Maximum test voltage/current 10kV/5A, frequency 40~70Hz

8	Test frequency	Single frequency 40.0~70.0Hz, resolution 0.1Hz
		Automatic dual variable frequency set at will (from 50±0.1Hz to 50±10Hz)
		Automatic dual variable frequency set at will (from 60±0.1Hz to 60±10Hz)
9	CVT self-exciting low voltage output	Output voltage 3-50V, output current 3-30A
10	Measuring duration	About 40s, depending on measuring method
11	Power Supply	220V AC, 50Hz ± 1%
12	Interface	RS232, USB
13	Printer	Mini-type thermal printer
14	Ambient temperature	-10°C~50°C
15	Relative humidity	<90%



Related Products

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