

RD6000B Tan Delta Test Equipment

RD6000B Transformer Tan Delta Tester

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 large electromagnetic interference such as

substations. It is widely used in dielectric loss measurement of transformer,

transformer, bushing, capacitor, arrester and other equipment in power industry.



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 instrument adopts frequency conversion technology to eliminate 50Hz power frequency interference in the field. Even in the environment of strong electromagnetic interference, reliable data can be measured.
3. It is easy to operate with full touch LCD. Full touch LCD screen, super full graphics operation interface, each process is very clear, operators can use 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 at any time, view the historical records at any time, and print out. The current time and storage time can be displayed and printed at

any time.

5. Scientific and advanced data management: Instrument data can be exported through U disk, and can be viewed and managed on any PC by special software.
6. The instrument is easy to operate and the measurement process is controlled by microprocessor. As long as the appropriate measurement mode is selected, the measurement of data can be completed automatically under the control of microprocessor.
7. Integrated model, with standard capacitor and high voltage power supply, is convenient for field test 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 do AC voltage withstand test. It is convenient for PT and CT to do AC voltage withstanding test twice and 400V low voltage system to do voltage withstanding test.
10. It can identify the frequency of external high-voltage power supply from 40Hz to 70Hz, and allow large capacity and high voltage dielectric loss test with power frequency power supply or series resonant power supply.
11. It has the function of CVT test and can realize the self-excitation test of CVT. It can set four protection restrictions of high voltage/current and low voltage/current to ensure the safety of person and equipment.
12. When testing CVT, not only the capacitance and dielectric loss values of C1 and C2 can be automatically tested, but also the total capacitance and dielectric loss values of CVT equipment can be tested.
13. With a thermal printer, it can print out, with a calendar clock, to facilitate users to produce test reports, with U disk output.
14. Grounding protection function. When the instrument is not grounded or grounded badly, the instrument does not enter the normal procedure and does not output high voltage. Overcurrent protection function, the instrument will not be damaged

when the sample is short-circuit or breakdown.

15. Electric shock protection function. When the instrument operator accidentally electric shock, the instrument will immediately cut off the high voltage to ensure the safety of the test personnel.



Product specifications and technical parameters

| Model.No | RD6000B |
|--------------------------------------|--|
| Accuracy | $C_x \pm (\text{reading} \times 1\% + 1\text{pF})$; $\text{tg}\delta \pm (\text{reading} \times 1\% + 0.00040)$ |
| Anti-interference index | Frequency conversion anti-interference, in 200% interference can still achieve the above accuracy |
| Capacitance range | Internal high voltage: 3pF~60000pF/10kV ; 60pF~1μF/0.5kV External high voltage: 3pF~1.5μF/10kV ; 60pF~30μF/0.5kV Resolution: maximum to 0.001pF, 4 significant digits |
| tgδ range | No limitation, resolution 0.001%, capacitance, inductance, resistance can be automatically identified |
| Test current range | 10μA~5A |
| Internal high voltage | Voltage setting range: 100V~10kV adjustable, resolution 1V Maximum output voltage: 200mA |
| 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 |
| 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) |
| CVT self-exciting low voltage output | Output voltage 3-50V, output current 3-30A |
| Measuring duration | About 40s, depending on measuring method |
| Power Supply | 220V AC, 50Hz ± 1% |
| Interface | RS232, USB |
| Pinter | mini-type thermal printer |
| Ambient temperature | -10°C~50°C |
| Relative humidity | <90% |



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