DELTA 1270

DELTA 1270 - ALTERN Tan Delta Test Set

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ManufacturerALTERN

Description

Dielectric loss measurement is a basic method in insulation test and effectively detect damp, degradation and partial defect of insulation of electrical equipment. This method is widely used in electric manufacturing, electric equipment installation, connection and preventive test. Measurement on dielectric loss of transformer, mutual inductor, reactor, capacitor, bushing and arrester is the most basic method to test their insulation property. fully-automatic anti-interference dielectric loss tester breaks through the traditional bridge testing method and adopts variable frequency power technology, single chip and modernized electrical technology to carry out automatic frequency shift, analog-to-digital conversion and data computing. It features strong anti-interference capacity, high test speed, high precision, automatic digitization and easy operation. It adopts high-power switching power supply, which outputs 45Hz and 55Hz pure sine wave and automatically increase the voltage to a maximum value 10 KV. It can filter 50Hz interference automatically, and it is applicable to the site test of substation and other places with large electromagnetic interference. This methods is extensively applied in dielectric loss measurement of transformer, mutual inductor, reactor, bushing, capacitor, arrester and others equipments in power industry.

Specification

Accuracy: Cx: ±（ reading×1%+1pF）

tgδ: ±（ reading×1%+0.00040）

Anti-interference: Variable frequency anti-interference, the above accuracy can be reached under 200% interference.

Capacitance range: Internal HV: 3pF～60000pF/12kV; 60pF～1μF/0.5kV

External HV: 3pF～1.5μF/10kV; 60pF～30μF/0.5kV

Resolution: up to 0.001 pF, 4-bit significant digits

tgδ range: no limi,The resolution is 0.001%. The capacitance, inductance and resistance can be identified automatically.

Test current range: 10μA～5A

Internal HV: Set voltage range: 0.5～10kV

Maximum output current: 200mA

Boost and drop voltage mode: the voltage is set at will. Such as 5123 V.

Test frequency: 40-70Hz single frequency can be set at will. For example, 48.7 Hz

50± 0.1Hz to 50±10Hz automatic dual frequency conversion optional setting.
60± 0.1Hz to 60±10Hz automatic dual frequency conversion optional setting.

Frequency accuracy: ±0.01Hz

External high voltage: maximum test current 5A, power frequency or frequency conversion of 40-70Hz during positive connection
Maximum test current 10kV/5A, power frequency or frequency conversion 40-70Hz
CVT self-excitation method low voltage output: output voltage 3～50V, output current 3～30A
Measurement time: ±40s, related to measurement method
Input power supply: 180V～270VAC, 50Hz/60Hz±1%, supplied by alternating current or generator
Computer interface: standard RS232 interface, U disk socket (automatic U disk storage data)
Environment temperature: -10℃ ～50℃
Printer: micro thermal printer
Environment temperature: -10℃ ~ 50℃
Relative humidity: <90%
Overall dimension: 430×330×350mm
Weight： 28kg