

T-10 Dielectric Loss Insulation Tester

Description

T-10 can effectively discover the overall damp deterioration and local defects of the insulation of electrical equipment. It is an integrated structure with built-in dielectric loss bridge, variable frequency power supply, test transformer and standard capacitors.

T-10 adopts frequency conversion anti-interference and Fourier transform digital filtering technology, automatic and intelligent measurement, and the measurement data is very stable under strong interference.



Application

Electrical manufacturing, electrical equipment installation, handover and preventive testing

Features

- Multiple working modes: positive/reverse wiring, internal/external standard capacitance, internal/external high voltage, reverse wiring low-voltage shielding, CVT and transformation ratio
- Frequency conversion anti-interference, accurate measurement under 200% interference, stable test data
- Digital waveform analysis, bridge self-calibration technology, and the high-precision three-terminal standard capacitor
- Built-in series and parallel dielectric loss measurement models
- Compensates for the effect of busbar grounding and the partial voltage of standard capacitors automatically
- CVT ratio measurement function, it can measure CVT ratio, polarity and phase error
- Safety measures: High-voltage protection, Power supply protection, Grounding protection, CVT protection, Misoperation prevention
- Print and storage: T-10 comes with a micro-printer, which can print out the measurement results and store the measurement results in the instrument (100 sets of measurement data can be stored) or U disk for future reference
- Real-time clock: the instrument has a real-time clock, real-time display, and can record the date and time of the measurement

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Technical Data

Accuracy	$C_x \pm (\text{reading} \times 1\% + 1\text{pF})$ $DF \text{ tg } \delta \pm (\text{reading} \times 1\% + 0.00040)$
Interference	Ratio of interference current to specimen current is 2:1 (200%)
Capacitance Range	Internal HV 3pF~60000pF / 10kV, 60pF~1uF/0.5kV External HV 3pF~1.5uF/10kV Resolutio 0.001pF, 4 digital
tg δ Range	No limit, Resolution 0.001% (C/L/R specimen is automatic recognized)
Input Current Range	10 μ A~5A
Internal HV	0.5~10kV / 200mA (max)
Accuracy	$\pm (\text{reading} \times 1\% + 10\text{V})$
Control Mode	Rise or fall smoothly
Frequency	45Hz, 50Hz, 55Hz, 60Hz, 65Hz single frequency 45Hz/55Hz, 55Hz/65Hz, 47.5Hz/52.5Hz dual frequency
External HV	UST: 5A max, GST: 10kV/5A max, 38-72Hz
CVT (Capacitor voltage transformer) Test Mode	Output Voltage : 3~50V Output Current : 3~30A
Test Time	30s typical (may vary in different test mode)
Power Supply	180V~260V,50Hz/60Hz (1 phase power supply or generator)
Display	320*240dot matrix
Printer	Thermal printer
Communication Port	RS-232
U disk	support U disk storage
Operating Temperature	-10 C ~50 C
Humidity	<90% non-condensing
Dimension	368mm(L) \times 288mm(W) \times 280mm(H)
Weight	Main unit: 22kg Cable: 3.5kg

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