

Automatic Capacitance and Tan Delta Tester, Model:CTD-10

Quality / Accuracy / Reliability



Introduction:

Model CTD-10 Capacitance and tan-delta tester is a kind of instrument with high precision fully automatic measuring the dielectric loss tangent and capacitance of various high voltage electrical equipments in the power plants and substations. The instrument applies to the measurement of $\tan\delta$ and electrical capacity of high voltage electrical equipments in the workshops, laboratories and research institutes. It could measure non-grounded or grounded high voltage equipments adopting positive and negative connection method. Besides, it could measure the $\tan\delta$ of capacitor voltage transformer and capacitance of main capacitor C1 and C2.

Functions and Features:

- Adoption of frequency conversion technology could ensure the accurate measurement in the interference of strong electric field.
- Fully automatic controlled by microcomputer.
- Equipped with high voltage step-up transformer.
- The instrument takes security measures like zero-cross closing, lightning protection, etc. During the experiment, different levels of high voltage ranging from 0.5KV to 10KV are outputted.
- Under the circumstance of oil dielectric loss $\geq 0.01\%$, with oil cup, positive wiring can be used to measure the dielectric loss of oil.
- Anti-interference measures adopted.

Accessories:

1. Host
2. High-voltage HVx test cable (Red)
3. Cx-specific test cable (black)
4. Cn-specific test cable (black)
5. High-voltage output test cable (for CVT, dual-core)
6. Low-voltage output test cable (for CVT, dual-core)
7. 220 V power line
8. Ground wire
9. Instruction manual
10. Fuse, printing paper for spare
11. Factory inspection report

Specifications:

Condition of Use	15℃ below ~ 50℃			RH<80%	
Power Source	AC 220V ±10% 50 ±1HZ				
High Voltage Output	0.5KV ~ 10KV			Each level 500V, total 20 levels	
	Capacity				
Resolution	tgδ: 0.01%			Cx: 1pF	
Precision	△tgδ: ± (Reading *1.5% +0.06%)				
	△C x : ± (Reading *1.5% +5PF)				
Measuring Range	tgδ		0.01% <tgδ <100%		
	Internal under high voltage		10 KV	3PF ≤Cx≤60000PF	
			0.5 KV	60PF≤Cx ≤ 1μF	
	EXternal under high voltage		10 KV	3PF ≤Cx ≤ 1.5μF	
			0.5 KV	60PF≤Cx ≤ 30μF	
	Measuring Method	working frequency		50HZ	
different frequency		45HZ / 55HZ Automatic frequency conversion			
Harmonic adaptation	≤ 3%				
Dimension	460 (L) *345 (W) *345 (H) mm				
Weight	35 Kgs				

Product Specifications are subject to change without notice

Manufactured By:

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