

Capacitance and Tan Delta Tester

HFJS-8205E Pro



Product introduction

Hengfeng Capacitance and Tan Delta Tester is used to measure the dissipation factor (PF) of insulating materials in heavy interference sites such as power plants or power substations. It can also be used in laboratory for high accuracy capacitance and dissipation measurement. The tester is all-in-one unit which includes precision digital bridge, power unit, internal reference capacitor (Cn), booster transformer and other electronic circuits.

7-inch HD color touch screen, easy to use. When started, it runs automatically. All test results can be automatically stored and printed by the built-in printer. PC software can control instrument operation and automatically generate test reports in Excel format.

Features:

1. Multiple automatic double variable frequency selectable, which can effectively resist the frequency interference of test site and ensure the accuracy of test results.

Multiple fixed frequency selectable, which is suitable for measurement when powered by generator.

2. 7" high HD color touch screen with stylus pen and buttons

3. Test mode :UST+GST+CVT+ GSTg
4. When the test voltage is higher than 12KV, the external high voltage transformer can be connected for measurement.
5. When the oil cell is connected externally, the oil tan delta test can be tested.
6. Automatic memory with time/date, up to 1000 test data .
7. Multiple protection ensures instrument and operator safety: high voltage protection, low voltage protection, grounding protection, short circuit protection.
8. Built-in thermal printer
9. USB port , easy to transfer test data to USB memory stick.
10. Powerful PC software can control instrument operation ,and can automatically generate test report in Excel format.
11. The Bluetooth unit P20 (optional) can connect tester and PC wirelessly.
12. Rugged carrying case protection rating IP67.
13. All-in-one and lightweight.

Accuracy	Cx	$\pm(0.5\%rdg+1pF)$
	tg δ	$\pm(1\%rdg+0.00040)$
Anti-interference index	Frequency conversion anti-interference, in 200% interference can still achieve the above accuracy	
Capacitance range	internal high voltage	3pF~60000pF/12kV 60pF~1 μ F/0.5kV
	resolution	Max. 0.001pF, 4 dgt
tg δ range	No limitation, capacitance, inductance, resistance can be automatically identified	
Test current range	10 μ A~5A	
Internal high voltage	voltage setting range	0.5~12kV
	maximum output current	200mA
	Voltage regulation method	Rise or drop smoothly
	test frequency	single frequency (45-65Hz). Automatic dual variable frequency (46/54Hz, 45/55Hz,49/51HZ...)
	frequency resolution	± 0.01 Hz
CVT self-excited low voltage output	Output voltage 3-50V, output current 3-30A	
Test duration	About 30s, may vary between test modes	

Protection	Ground protection/overcurrent protection/false connection 380V voltage protection/high voltage and current protection
Power supply	180V ~ 270VAC, 50/60HZ
Memory	Automatic memory with time/date stamp
RS232	Standard RS232 interface
USB	Can transfer test data from internal memory to U flash drive
Printer	Built-in thermal printer
PC software	Yes
Working Temperature	-10°C~50°C
Relative humidity	<90%
Safety standard	IEC / ANSI 61010-1
Shock & Vibration	IEC 60068-2-27, IEC 60068-2-7 & ASTM D999.75
Dimensions	340*340*460mm (13.8"*18.8"*12.2")
Weight	25.8kg (56.8lb)

Record value

Dissipation Factor $\tan\delta$
Power Factor $\cos\phi$
Capacitance Cx/Inductance Lx /Resistance Rx
Quality Factor
Power loss(Watts)
Test voltage
Test current
Test frequency
Temperature

Accessories

Cable case
HV cable1*10m
Cx cable1*10m
CVT-da cable1*10m
CVT-dn cable1*10m
Ground lead1*5m
Power Cord
2 Paper Rolls
Stylus pen
USB Memory Stick
Instruction Manual
Calibration certificate

Options

Bluetooth adaptor (P20)
Extended test leads (L20)