

GPS-

6800



A fully automatic 10kV insulation power factor/dissipation factor (tan) tester designed for condition assessment of electrical insulation

The 6800 is a new generation, fully automatic, 10 kV capacitance and dissipation factor test set designed for insulation and quality assessment of high voltage power apparatus in the field, floor shop or laboratory. The entire test is done automatically and quickly. Operator enters the test parameters and the GPS-6800 takes over; powers up the voltage, balances the bridge, takes the readings, ramps down to zero and displays the results on the LCD screen. Prints results through its built-in printer. A key feature of the GPS-6800 is its advanced interference suppression circuit based on the principle of line frequency modulation.

Key Features

- Large touch screen display
- Large internal storage and support for U-disk storage
- Multiple protection features; ultra-safe and reliable
- Multiple test modes: UST, GST, GSTg
- Lightweight, rugged one-piece design
- High voltage 10kV/200mA (12kV can be customized)
- LCR automatic measurement
- Interference suppression
- High accuracy

Applications

- transformers
- bushings
- circuit breakers
- cables
- lightning arresters
- rotating machinery

www.gpslimited.com/6800
For all enquiries, Tel: +44 (0) 208 964 3600
Email: info@gpslimited.com

CAPACITANCE & TAN DELTA TESTER

Technical Specifications

GPS-6800 Capacitance and Dissipation Factor Tester		
High Voltage Output	0.5KV~10KV	Every 0.1kV
	Accuracy	2%
	Max Current	200mA
	Capacity	2000VA
Self-excitation Power	AC 0V~50V/15A	45HZ/55HZ 47.5HZ/52.5HZ 55HZ/65HZ 57.5HZ/62.5HZ Automatic dual frequency
Resolution	tgδ: 0.001%	Cx: 0.001pF
Accuracy	$\Delta tg \delta : \pm (\text{reading} * 1.0\% + 0.040\%)$ $Cx : \pm (\text{reading} * 1.0\% + 1.00PF)$	
Measurement Range	tgδ	Without limit
	Cx	15pF < Cx < 300nF
	10KV	Cx < 60 nF
	5KV	Cx < 150 nF
	1KV	Cx < 300 nF
	CVT Test	Cx < 300 nF
LCR Measurement Range	L > 20H (2kV)	R > 10KΩ (2kV)
LCR Measurement Accuracy	0.1% Angle resolution: 0.01	
CVT Ratio Range	10~10000	
CVT Ratio Accuracy	0.1%	
CVT Ratio Resolution	0.01	
Memory Capacity	200 groups, USB flash disk storage is supported.	
Anti-Interference	Frequency conversion	
Accessories		
Standard Accessories	Carrying case, HV test lead (8m), LV test lead (8m), Power cord (1.8m), CVT connecting lead (5m), Ground lead (2m), Print paper (2 rolls), 10A fuse (2pcs), User guide, Factory test report	
Optional Accessories	Oil Test Cell, Heating Controller	

General Specifications

Part Numbers / Optional Accessories		
Code	Item	Part Number
GPS-6800	Digital Micro-Ohm Meter $1\mu\Omega \sim 20M\Omega$, accuracy: 0.05%	680090

Mass

Main unit: 22.75kg/50lbs approx.
Accessory box: 5.25kg/11.5lbs approx.

Dimension

Main unit: 470(L) × 370(W) × 380(H)
Accessory box: 430(L) 350(W) 130(H)

Operating

Temp -15°C - 40°, humidity RH < 80%

Power Supply

AC 220V ± 10% (generator can be used)

Services

1-year warranty (subject to product registration with GPS Ltd)
Please contact for more information.

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