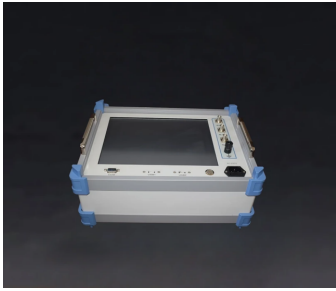


HF-TC-618

Sweep Frequency Response Analyzer



The Sweep Frequency Response Analyzer detects transformer winding deformation. It injects swept frequency signals and compares frequency response curves to identify displacement, short circuits and insulation damage, offering reliable offline diagnostic testing for power transformers.

Key features

- Fast measurement: single winding test completes within 1-2 minutes.
- Ultra-high frequency accuracy better than 0.001%.
- Digital frequency synthesis for superior frequency stability.
- 5000 V electrical isolation fully protects the test computer.
- Supports up to 9 curves loaded simultaneously; auto-calculates correlation parameters and provides diagnostic reference conclusions.

Technical specifications

Parameter	Value
Measurement Time	1-2 min per single-phase winding
Output Voltage	25 Vpp, automatically adjusted during testing
Output Impedance	50 ohm
Input Impedance	1 Mohm (built-in 50 ohm matching resistor in response channel)
Sweep Frequency Range	10 Hz - 2 MHz
Frequency Accuracy	0.001%
Sampling Rate per Channel	100 Msps
Sweep Mode	Linear or logarithmic; interval and points configurable
Curve Display	Amplitude-frequency curve (phase-frequency curve, optional)
Dynamic Range	-120 dB ~ 20 dB
Power Supply	AC 220V ± 10%
Main Unit Weight	3.6 kg
Main Unit Dimensions	272 mm × 258 mm × 95 mm
Sweep Range	10 Hz - 10 MHz
Sweep Points	40,000
Resolution	0.25 kHz / 0.5 kHz / 1 kHz

Standard scope of supply

No.	Item	Qty	Notes
Main SFRA Analyzer Unit	1	1	

No.	Item	Qty	Notes
Power Suppl y Cable	1	1	
Signal Test Cables Set	1 set	1 set	
High-precisi on Test Clips	1 set	1 set	
USB C ommu nicatio n Cable	1	1	
User Opera tion M anual	1	1	
Calibr ation Certifi cate	1	1	
Portab le Hard Carry Case	1	1	

Compliance and documents

Applicable standards	[TO BE CONFIRMED] standard applied to this model
Calibration certificate	[TO BE CONFIRMED]
Optional accessories	[TO BE CONFIRMED]

Warranty and support

12-month warranty on every exported instrument. English operation manual and remote video guidance at commissioning. T/T, L/C at sight and deposit terms for bulk orders; sea, air or rail shipping.