

SFRA 5000

Sweep frequency response analyzer

- Standalone high accuracy transformer analysis
- Leading wideband accuracy: basic 0.02dB with class leading high frequency performance
- Leading phase accuracy: 0.05 degrees basic
- Wide frequency range: 5Hz to 45MHz
- Full colour VGA display enabling engineer to perform and store measurement in the field without a PC
- PC software included: remote control, tables, graphs and database management of results
- USB, RS232 and LAN interfaces
- LCR mode: fully functional LCR meter to measure transformer LCR parameters
- Various measurement modes: FRA, RMS, LCR, Scope
- Compliant to IEC60076-18 standard
- Light and easy to carry.



- . Speed: Up to 100 readings per second
- . Filter: Selectable from 0.2 seconds
- . Resolution: 5 or 6 digits
- . Input Impedance: 50 Ohm or 1M Ohm High Impedance (Selectable)
- . Dynamic Range: 120dB.

LCR Meter

- . Functions: L, C, R (AC), Q, Tan Delta, Impedance, Phase - Series or Parallel Circuit
- . Frequency Range: 5Hz - 5MHz
- . Current Shunt: 50R Internal or External
- . Ranges: Inductance, Capacitance, Resistance
- . Basic Accuracy: 0.5% + 2%/MHz
- . Sweep Capability: All AC functions
- . Impedance Range: 100mOhm to 100kOhm.

True RMS Voltmeter

- . Channels: 2 (Ground Referenced)
- . Frequency Range: 5Hz -5MHz
- . Measurement: AC RMS, Peak, CF, Surge, dBm
- . Basic Accuracy (AC):
0.05% range + 0.05% reading + 0.1mV < 1kHz
0.15% range + 0.15% reading + 0.1mV < 10kHz
0.5% range + 0.5% reading + 0.025%/kHz + 0.4mV < 5MHz.

Signal Generator

- . Type: Direct Digital Synthesis, Single Frequency or Sweep
- . Frequency: 5Hz to 45MHz
- . Waveforms: Sine, Square, Triangle, Ramp, White Noise
- . Accuracy: Frequency 5ppm over all temperature range
Amplitude $\pm 5\%$ < 10MHz, Amplitude $\pm 10\%$ < 45MHz
- . Impedance: 50 Ohm $\pm 2\%$
- . Scaling: 1×10^{-9} to 1×10^9
- . Output Level: 50mVpk to 10Vpk.

Input Ranges

- . Inputs: 2 x 10Vpk
- . Connectors: Ground referenced BNC
- . Coupling: AC
- . Input: 10Vpk from earth
- . Input Ranges: Peak Ranging 3mV, 10mV, 30mV, 100mV, 300mV, 1V, 3V, 10V
- . Scaling: 1×10^{-9} to 1×10^9
- . Ranging: Full auto, Up only or Manual
- . Input Impedance: 50 Ohm or 1M Ohm High Impedance Selectable.

ACCESSORIES AND PORTS

Instrument Accessories

- . Probes: 2x Probes
- . Leads: 3x BNC to BNC (Output, CH1, CH2), RS232, Power
- . Software: CommView, SFRACoMM
- . Documentation: Calibration Certificate, User Manual.

SFRA 5000 Transformer Connection System

- . Bushing Clamps: 2x Bushing Connection Clamps
- . BNC Cable Reel: N4L 18m Cable reel (Signal, CH1, CH2)
- . Earth Braid: 2x 5 metre Earthing Braid
- . Earth Clamps: 2x
- . Spare Earth Braid: 2x 500mm
- . USB Stick: 2 GB.

Ports

- . RS232: Baud Rate to 19200, RTS/CTS flow Control
- . USB: USB Port
- . LAN: 10/100 base-T Ethernet auto sensing RJ45.

SYSTEM SPECIFICATION

Sweep

- . Functions: FRA, Impedance
- . Steps: Up to 2000 Steps
- . Window: From 50ms with no gap between each log
- . Memory: 1 GB Internal or External USB.

General information

- . Display: 5.7" ¼VGA colour high brightness backlit
- . **Dimensions** (Instrument): 305Hx230Wx45D mm "Tablet Style"
- . **Weight** (Instrument): 2.7kg
- . Dimensions (Carry Case): 760mm x 420mm x 150mm
- . Weight (Full system including case): 14.9kg
- . Program Stores: 100, Location 1 loaded on power up
- . Sweep Stores: 2000, all parameters in any sweep function
- . Remote Operation: Full Capability, Control and Data
- . Power Supply: 9 – 18V @ 3A, AC adapter or 12V dc from car or external batteries
- . Warranty: 3 Years

APPLICABLE STANDARD

- . **Electromagnetic Compatibility:** Directive no. 89/336/EEC .
- . Applicable Standard: EN 61326:1997 Class A.
- . IP Protection of Inputs and Outputs: IP30.
- . Storage Temperature: -10 ° to +50° C.
- . Relative humidity: 20-90%, non condensing
- . Max Altitude: 2.000 m.

SFRA 5000



ORDERING INFORMATION

CODE	MODULE
90175	SFRA 5000 supplied with software, cables and case



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The document is subject to change without notice. Always refer to our technical specification for more detailed information and as formal contract document.