

ROHDE & SCHWARZ

FSH3

The Rohde & Schwarz FSH3 is a highly capable and cost-effective portable spectrum analyzer designed for rapid, high-precision signal investigations. With a frequency range of 100 kHz to 3 GHz, it is well-suited for a wide range of applications, from the installation and maintenance of mobile radio base stations to on-site fault location in RF cables, as well as general development and service tasks.

SPECIFICATIONS

General

Interfaces	Optically coupled RS-232 / USB
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Physical

Power Supply	100 V to 240 V AC via adapter; Internal NiMH battery
Operating Temperature	0 °C to +50 °C °C
Weight	2.5 kg kg

Frequency Specifications

Frequency Range	100 kHz to 3 GHz
Spectral Purity / Phase Noise	< -100 dBc (1 Hz) at 100 kHz from carrier

Amplitude and Level

Reference Level Range	-80 dBm to +20 dBm
Absolute Amplitude Accuracy	< 1.5 dB (typ. 0.5 dB)
Trace Detectors	Sample, Max Peak, Min Peak, Auto Peak, RMS

Dynamic Range and Spurious

Displayed Average Noise Level (DANL)	typ. -135 dBm (RBW 100 Hz)
Third-Order Intercept (TOI)	typ. 13 dBm

Tracking Generator (Optional)

Tracking Generator Output Power	-20 dBm (Model 13); -20 dBm / 0 dBm (Model 23)
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Inputs and Outputs

RF Input Connector	N female
RF Input Impedance	50 Ω

Measurement Functions

Preamplifier Option	Included in Model 03 and Model 23
Tracking Generator Option	Included in Model 13 and Model 23

Inputs & Outputs

Maximum DC Input Voltage	50 V
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Power

Battery Type	NiMH
Battery Operating Time	Up to 4 hours

Memory & Storage

Internal Storage capacity	100 traces and setups
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Performance

Audio Demodulation	AM and FM
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Amplitude & Level

Typical Level Measurement Uncertainty	< 1.5 dB (typ. 0.5 dB) at +20 °C to +30 °C
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Data Processing

Displayed Sweep Points	301
Trace Functions	Clear/Write, Max Hold, Min Hold, Average, View
Marker Functions	Peak, Next Peak, Marker to Center, Delta Marker

Options & Accessories

Distance-to-Fault (DTF) Option	Supported via FSH-B1 option
Compatible VSWR Bridges	FSH-Z2, FSH-Z3
Compatible Power Sensors	FSH-Z1, FSH-Z18, FSH-Z14, FSH-Z44

TECHNOLOGY

Spectrum Analyzer

APPLICATIONS

Field Service, RF Cable Fault Location, Mobile Radio Base Station Maintenance

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.