

ROHDE & SCHWARZ

FSH

The Rohde & Schwarz FSH is a rugged, handheld spectrum analyzer designed for field applications. Offered in multiple variants ranging up to 20 GHz, it is highly configurable for tasks such as installation and maintenance of transmitter stations, cable and antenna measurements, and interference hunting. Its versatile design allows integration of a tracking generator, VSWR bridge, and preamplifier depending on the specific model and options selected.

SPECIFICATIONS

General

Interfaces	USB host, USB device, LAN (10/100BaseT), BNC (external trigger / reference), SD card slot
Display	6.5-inch color VGA TFT (640 × 480 pixels)
Recommended Calibration Interval	1 year

Physical

Power Supply	100-240 V AC, 50-60 Hz (via AC adapter); Li-ion battery pack
Operating Temperature	0 to 50 °C

Frequency

Frequency Range	9 kHz to 3.6 GHz / 8 GHz / 13.6 GHz / 20 GHz (model dependent)
Frequency Setting Resolution	1 Hz
Span Range	0 Hz, 10 Hz to maximum frequency
Internal Reference Frequency	10 MHz

Bandwidths

Resolution Bandwidth (RBW) Range	1 Hz to 3 MHz
Video Bandwidth (VBW) Range	1 Hz to 3 MHz

Sweep

Detectors	Max Peak, Min Peak, Auto Peak, Sample, RMS
Number of Sweep Points	631

Amplitude and Level

Maximum Safe DC Voltage	50 V
Maximum Continuous RF Input Power	+30 dBm (1 W)

Dynamic Range and Spurious

Phase Noise at 10 kHz Offset	< -95 dBc/Hz (f = 500 MHz)
Phase Noise at 100 kHz Offset	< -100 dBc/Hz (f = 500 MHz)
Phase Noise at 1 MHz Offset	< -115 dBc/Hz (f = 500 MHz)

Interfaces and Connectors

RF Input Impedance	50 Ω
External Storage Media	SD Memory Card, USB Flash Drive

Sweep & Trigger

Trigger Source	Free run, Video, External
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Signal Processing

Trace Modes	Clear/Write, Max Hold, Min Hold, Average, View
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Measurement Functions

Standard Measurements	Channel Power, Occupied Bandwidth (OBW), Field Strength
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Demodulation

Audio Demodulation	AM, FM
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Accessories & Options

Power Sensor Support	R&S NRP series, R&S FSH-Z series (via USB/adapter)
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Power & Battery

Battery Type	Lithium-Ion (Li-Ion)
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Compliance

Electromagnetic Compatibility (EMC)	EN 61326-1
Electrical Safety	EN 61010-1

Inputs & Outputs

RF Input Connector	N female
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Environmental

Ingress Protection Rating	IP51
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TECHNOLOGY

Spectrum Analyzer

APPLICATIONS

Field RF Testing / 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.