

ROHDE & SCHWARZ

FSH8

The Rohde & Schwarz FSH8 is a rugged, lightweight, and highly capable handheld spectrum analyzer designed specifically for field use. Covering a frequency range up to 8 GHz, it is tailored for the startup, maintenance, and troubleshooting of transmitter stations. Depending on the exact version, it offers an internal tracking generator, a VSWR bridge, and even full two-port network analysis capabilities, making it a highly versatile instrument for outdoor rf and microwave work.

SPECIFICATIONS

General

Interfaces	USB, LAN
Display	6.5-inch TFT color LCD, 640 × 480 pixels
Recommended Calibration Interval	1 year

Physical

Power Supply	Li-ion battery
Operating Temperature	0 to +50 °C °C
Dimensions (W×H×D)	194 mm × 300 mm × 69 mm mm
Weight	3 kg kg

Frequency

Frequency Range	9 kHz to 8 GHz (versions .08, .18); 100 kHz to 8 GHz (version .28)
Reference Frequency Aging	< 1 ppm / year
Reference Frequency Initial Accuracy	< 1 ppm

Tracking Generator (Optional)

Tracking Generator	Internal (versions .18 and .28)
VSWR Bridge	Internal (version .28)

Inputs and Outputs

RF Input Connector	Type N (female)
RF Input Impedance	50 Ω

Data Storage

External Storage Support	SD card
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Power Supply

Battery Type	Li-ion
Battery Operating Time	Up to 4.5 h

Software

PC Software	R&S FSH4View
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Physical Specifications

Weight (Including Battery)	3 kg
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Inputs & Outputs

Maximum Safe Input Power	+30 dBm (1 W) continuous
Maximum Safe DC Voltage	50 V
External Reference Input	10 MHz (BNC female)
External Trigger Input	BNC female, TTL level

Data Processing

Detectors	Max Peak, Min Peak, Auto Peak, Sample, RMS
Trace Functions	Clear/Write, Max Hold, Min Hold, Average, View
Markers	Up to 6 markers or delta markers

Environmental

Protection Class	IP51
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Display

Display Size	6.5 inches (diagonal)
Display Resolution	640 × 480 pixels (VGA color LCD)

Measurement Features

Audio Demodulation	AM and FM (via internal speaker or 3.5 mm headphone jack)
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Options & Upgrades

Software Options (Application Specific)	Spectrogram (FSH-K14), Interference Analysis (FSH-K15), Distance-to-Fault (FSH-K41), Vector Network Analysis (FSH-K42), Receiver Mode (FSH-K43)
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Compliance

Safety Standards	IEC 61010-1, EN 61010-1, CAN/CSA-C22.2 No. 61010-1, UL 61010-1
EMC Compliance	EN 61326-1, EN 55011 (Group 1, Class B)

APPLICATIONS

Field measurements, outdoor work, startup and maintenance of transmitter stations

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