



R&S®FSH HANDHELD SPECTRUM ANALYZER

The all-in-one handheld platform

The perfect choice for

Installation and maintenance of transmitter stations

EMI debugging/
RF design validation

Interference hunting

Electromagnetic fields measurements



Key specifications	
Frequency range	9 kHz to 3.6/8/13.6/20 GHz 100 kHz to 3.6/8 GHz
Resolution bandwidth	1 Hz to 3 MHz
Demodulation bandwidth	20 MHz
Phase noise	95 dBc/Hz; -105 dBc/Hz (typ.)
Measurement uncertainty	< 1 dB (typ.)
Displayed average noise level (DANL)	R&S®FSH4 & R&S®FSH8 -157 dBm; -161 dBm (typ.) R&S®FSH13 & R&S®FSH20 -155 dBm; -159 dBm (typ.)
Third order intercept (TOI)	R&S®FSH4 only > +10 dBm; +15 dBm (typ.) R&S®FSH8/FSH13/FSH20 > +3 dBm; +10 dBm (typ.)

Expandable platform that eliminates the need for multiple instruments

Depending on the model and options installed, the R&S®FSH can be a

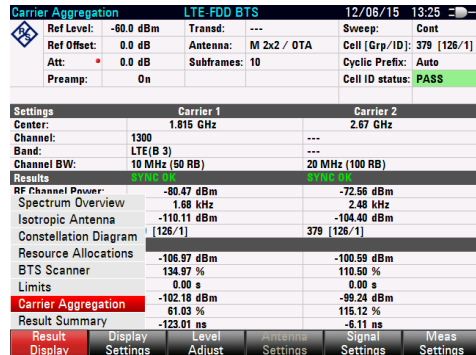
- ▶ Spectrum analyzer
- ▶ Interference hunting analyzer
- ▶ Cable and antenna analyzer
- ▶ Two-port vector network analyzer
- ▶ Power meter

Your benefit	Features
An expandable platform for every RF handheld measurement application	Expanded modes of operation for field strength measurements, power measurements, network analysis, interference analysis, vector voltmeter, pulse measurements
Extensive support for numerous wireless technologies	Modulation analysis for cellular technologies, including over-the-air LTE-Advanced carrier aggregation signal analysis
Most efficient instrument in the field	<ul style="list-style-type: none"> ▶ Sunlight readable display ▶ Generation of user-defined test sequences (R&S®FSH wizard) ▶ Remote control and data export with free R&S®Instrument View software ▶ Fast measurement mode switching ▶ SD card and USB port for data storage



For price and more information:
www.rohde-schwarz.com/catalog/FSH

Supports numerous mobile comm. standards



Modulation measurements on GSM/GPRS/EDGE, W-CDMA, TD-SCDMA CDMA2000, 1xEV-DO, LTE TDD, LTE FDD

Vector network analyzer mode



For cable loss and antenna testing and characterization as well as distance to fault measurements. Two-port capability for transmission measurements.

Wizard support for common measurement functions



User-definable test sequences that reduce operating errors in the field.

Remote control via LAN or USB



The R&S®FSH can be remotely controlled via the USB or LAN interface and integrated into user-specific programs.

Ordering information

Model	Frequency range	Options
R&S®FSH4.04	9 kHz to 3.6 GHz	Base unit
R&S®FSH4.14	9 kHz to 3.6 GHz	Tracking generator
R&S®FSH4.24	100 kHz to 3.6 GHz	VSWR bridge
R&S®FSH8.08	9 kHz to 8 GHz	Base unit
R&S®FSH8.18	9 kHz to 8 GHz	Tracking generator
R&S®FSH8.28	100 kHz to 8 GHz	VSWR bridge
R&S®FSH13.13	9 kHz to 13.6 GHz	Base unit
R&S®FSH13.23	9 kHz to 13.6 GHz	Tracking generator and VSWR bridge
R&S®FSH20.20	9 kHz to 20 GHz	Base unit
R&S®FSH20.30	9 kHz to 20 GHz	Tracking generator and VSWR bridge

Included: All models include lithium-ion battery pack, LAN and USB cables, AC power supply, CD-ROM with and documentation, quick start guide and three-year warranty (one year for battery and accessories)

Popular accessories

Description	Item
Spectrum analyzer preamplifier	R&S®FPH-B22
Interference analysis	R&S®FPH-K15
Lithium-ion battery pack, 6.75 Ah	R&S®HA-Z206
Soft carrying bag	R&S®HA-Z220
Hard case	R&S®HA-Z221
Near-field probe set	R&S®HZ-15
Yagi antenna, 824 MHz to 960 MHz	R&S®HA-Z900
Yagi antenna, 1710 MHz to 1990 MHz	R&S®HA-Z1900