

Rohde & Schwarz R&S®FSH18

Handheld Microwave Spectrum Analyzer

Portable, battery-powered 10 MHz to 18 GHz spectrum analysis



Reasons to buy the R&S®FSH18

- ▶ Handheld spectrum analyzer now up to 18 GHz
- ▶ Portable for most field applications
- ▶ Low-cost instrument with high-quality features
- ▶ Rapid, high-precision signal analysis
- ▶ Easy to use

THE R&S®FSH18 IS THE RIGHT TOOL FOR A WIDE RANGE OF APPLICATIONS

APPLICATION	HOW THE R&S®FSH18 MEETS YOUR NEED
<i>Wireless Microwave Link Testing</i>	<i>Makes measurements of microwave lines at higher frequencies</i>
<i>Detection of Interferers</i>	<i>Locates sources of over-the-air interfering RF signals from 10 MHz to 18 GHz</i>
<i>Field-Strength Measurements</i>	<i>Measures and displays electric field-strength when used with an antenna accessory</i>
<i>TDMA Power Measurements</i>	<i>Makes measurements within a timeslot of TDMA (time division multiple access) methods using predefined GSM and EDGE settings</i>
<i>Channel Power Measurements</i>	<i>Measures the power of a definable transmission channel with one keystroke for several digital mobile radio standards</i>
<i>C/N Measurements</i>	<i>Determines the ratio of carrier power to noise power or carrier power to noise power density</i>
<i>Channel Monitoring</i>	<i>Generate channel tables with our free R&S®FSHView software and load them into the R&S®FSH18 for tuning by channel numbers</i>
<i>EMI-Precompliance</i>	<i>Operates as a receiver for monitoring and precompliance EMC applications with the R&S®FSH-K3 option</i>
<i>Power Measurements</i>	<i>The R&S®FSH-Z1 and R&S®FSH-Z18 power sensors expand the FSH18 to a high-precision RF power meter up to 18 GHz</i>

Is the R&S FSH18 right for you?

Are you a field engineer that works with wireless and RF technology up to 18 GHz?

Do you have the need for a lightweight and portable spectrum analyzer?

Are you sensitive to the cost of high-quality instruments?

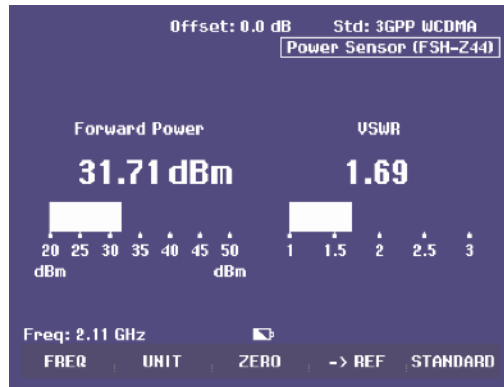
If you answered yes to any of these questions, we may have a solution for you: the R&S®FSH18!

Key Specifications at a Glance

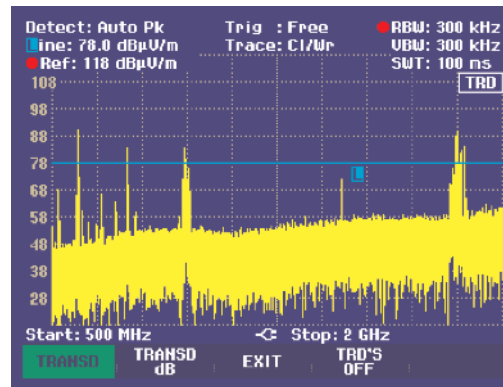
Specifications	R&S®FSH3	R&S®FSH6	R&S®FSH18
Frequency Range	100 kHz to 3 GHz	100 kHz to 6 GHz	10 MHz to 18 GHz
Resolution Bandwidths	1 kHz to 1 MHz (model .13) 100 Hz to 1 MHz (models .03 and .23)	100 Hz to 1 MHz	
Video Bandwidths	10 Hz to 1 MHz		
Displayed Average Noise Level	typ. -114 dBm (1 kHz) (model .13) typ. -135 dBm (100 Hz) (models .03 and .23)	typ. -135 dBm (100 Hz)	typ. -128 dBm (100 Hz)
TOI	typ. 13 dBm		typ. 7 dBm
SSB Phase Noise	<-100 dBc (1 Hz) at 100 kHz from carrier		-90 dBc (1 Hz)
Detectors	sample, max/min peak, auto peak, RMS, (ave. and quasi-peak with R&S®FSH-K3)		
Level Measurement Uncertainty	<-1.5 dB, typ. 0.5 dB		<1.5 dB to 6 GHz <2.5 dB to 16 GHz <3 dB to 18 GHz
Reference Level	-80 dBm to +20 dBm in 1 dB steps		
Number of markers	Maximum of 6		
Dimensions	6.69 in x 4.72 in x 10.63 in		
Display	5.7 inches LC color display, QVGA (320x240 pixels)		
Weight	5.52 lbs		

Extras of the R&S®FSH18

- ▶ Free firmware updates available on our website <http://www.rohde-schwarz.com>
- ▶ Free R&S®FSHView Control Software for tabular and graphical documentation of measurements
- ▶ Standard 1 year warranty and calibration included with purchase



Directional Power Measurement



Field-Strength Measurement

Ordering Information

Product	Type	Order No.
Handheld Spectrum Analyzer, 10 MHz to 18 GHz	R&S®FSH18	1145.5850.18
Accessories Supplied External power supply, battery pack (built in), USB optical cable, headphones, Quick Start manual, CD-ROM with R&S®FSHView Control Software and documentation		

Suggested Options and Accessories

Product	Type	Order No.
Remote Control to Spectrum Analyzer (via RS-232)	R&S®FSH-K1	1157.3458.02
Receiver Mode	R&S®FSH-K3	1157.3429.02
Average Power Sensor, 10 MHz to 8 GHz	R&S®FSH-Z1	1155.4505.02
Average Power Sensor, 10 MHz to 18 GHz	R&S®FSH-Z18	1165.1909.02
Directional Power Sensor, 25 MHz to 1 GHz	R&S®FSH-Z14	1120.6001.02
Directional Power Sensor, 200 MHz to 4 GHz	R&S®FSH-Z44	1165.2305.02
12 V Car Adapter	R&S®FSH-Z21	1300.7579.02
Carrying Bag	R&S®FSH-Z25	1145.5896.02
Active Directional Antenna	R&S®HE200	4050.3509.02
Isotropic Antenna, 30 MHz to 3 GHz	R&S®TS-EMF	1158.9295.13
Visit our website for a complete list of R&S®FSH18 accessories and extras		

Service Options

3 and 5 year calibration and repair service options are available



R&S®FSH-Z21 12 V Car Adapter



R&S®FSH-Z25 FSH with Carrying Bag

For more information go to our website:

<http://www.rohde-schwarz.com/product/fsh18.html>

