



## 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&amp;S®FSHView software and load them into the R&amp;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&amp;S®FSH-K3 option</i>                           |
| <i>Power Measurements</i>  | <i>The R&amp;S®FSH-Z1 and R&amp;S®FSH-Z18 power sensors expand the FSH18 to a high-precision RF power meter up to 18 GHz</i>             |



# Advanced Test Equipment Rentals

www.atecorp.com 800-404-ATEC (2832)

|                               |  |                        |  |
|-------------------------------|--|------------------------|--|
| Video Bandwidths              | 10 Hz to 1 MHz   |                        |  |
| Displayed Average Noise Level | typ. -114 dBm (1 kHz) (model .13)<br>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<br><2.5 dB to 16 GHz<br><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   |                        |  |

**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 |

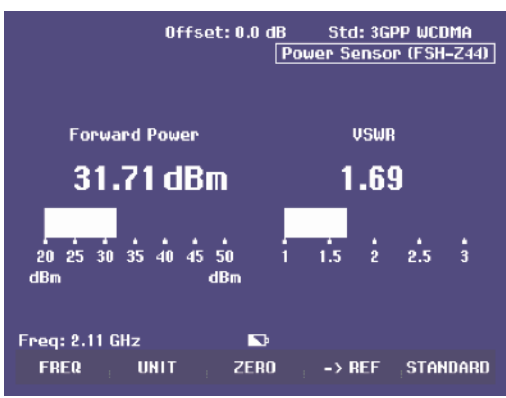
Visit our website for a complete list of R&S®FSH18 accessories and extras

### Extras of the R&S®FSH18

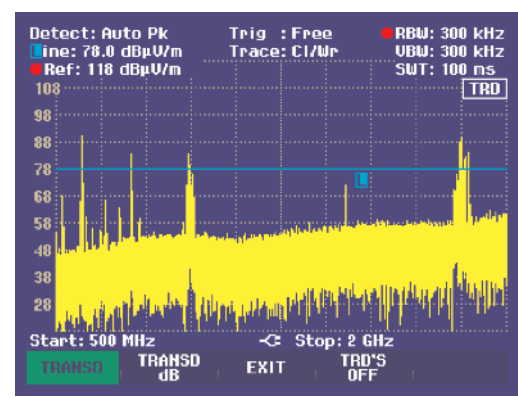
- ▶ Free firmware updates available on our website <http://www.rohde-schwarz.com>
- ▶ Free R&S®FSHView Control Software for tabular and graphical documentation of measurements
- ▶ Standard 1 year warranty and calibration included with purchase

### Service Options

3 and 5 year calibration and repair service options are available



**Directional Power Measurement**



**Field-Strength Measurement**



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>

