R&S®FSL18 Portable Spectrum Analyzer

Frequency range up to 18 GHz

Buying a spectrum analyzer no longer means having to make compromises. With the R&S®FSL18, you can now enjoy high-end features without stretching your budget. The R&S®FSL18 expands the R&S®FSL spectrum analyzer family by extending the frequency range to 18 GHz (20 GHz overrange). It is an extremely lightweight and compact spectrum analyzer, which makes it ideal for a large number of applications in development, service and production at microwave frequencies. Examples include the installation and maintenance of radar systems and microwave links, as well as the production of microwave components or satellite surveillance.

Despite its compact size and extended frequency range, the R&S®FSL18 is the only instrument in its class that has a bandwidth of 28 MHz. Featuring an I/Q demodulation bandwidth of 28 MHz, the spectrum analyzer is ideal for measuring both spectral and modulation parameters of broadband applications such as WLAN and WiMAX, including harmonic signals up to 18 GHz. In the time domain, its fast digitizer allows the detection of pulsed signals and the measurement of pulse widths.

At first glance, you will notice that the R&S®FSL18's graphical user interface is very similar to that of the R&S®FSU and R&S®FSP.

Its compact size and low weight, plus its battery pack, make the R&S®FSL18 ideal for mobile use.

The R&S®FSL18 has unique plug&play upgrade capabilities. All options can be added without opening the instrument.

Key features

- Frequency range up to 18 GHz
- Largest I/Q demodulation bandwidth (28 MHz) in its class
- High measurement accuracy
- High resolution filter accuracy owing to all-digital implementation
- Robust and compact
- Carrying handle and low weight (<8 kg/18 lb)
- Optional battery operation
- Wide range of functions, simple operation
- Easy to upgrade with options on-site

The most extensive set of functions in its class

The R&S®FSL18 offers a comprehensive set of measurement functions and features that are more typical of high-end analyzers, thus ensuring an excellent price/performance ratio:

Measurement routines for

- Third order intercept
- Occupied bandwidth
- Fast power measurements in the time domain
- Signal statistics (CCDF, ADP)
- Carrier-to-noise ratio
- (A)CP and more

Application firmware for general-purpose signal analysis

- Power measurement with R&S®NRP-power sensors
- Spectrogram display
- Noise figure and gain measurement
- AM/FM/φM modulation measurement

Application firmware for various wireless/cellular digital standards

- WCDMA
- WLAN
- WiMAX
- Bluetooth®

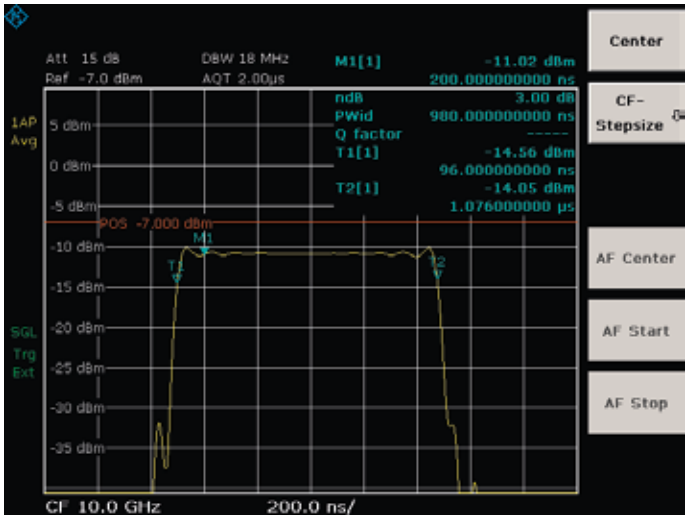
ROHDE&SCHWARZ

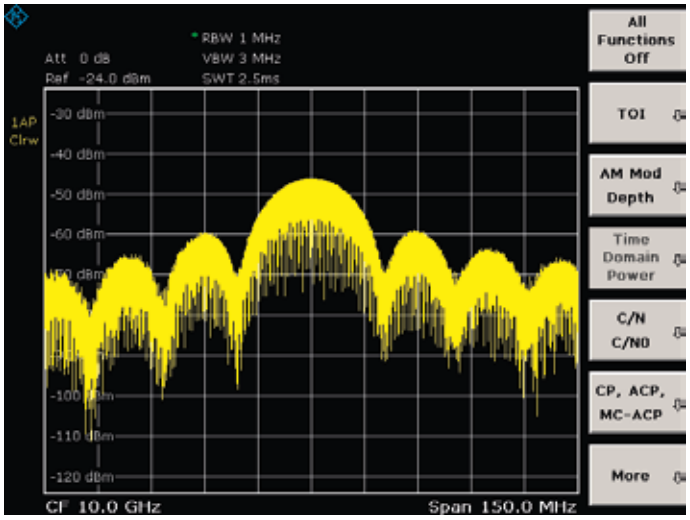
Ordering Information

Designation	Type	Order No.
Spectrum Analyzer, 9 kHz to 18 GHz (overrange to 20 GHz)	R&S®FSL18	1300.2502.18
Recommended extras		
19'' Rackmount Adapter	R&S®ZZA-S334	1109.4487.00
Soft Carrying Bag	R&S®FSL-Z3	1300.5401.00
Protective Hard Cover	R&S®EVS-Z6	5201.7760.00
Additional Charger Unit	R&S®FSL-Z4	1300.5430.02

For a complete list of options, please refer to the R&S®FSL data sheet (PD 0758.2790.22).

Typical applications include measurements in the microwave range, for example measuring the pulse width with the n-dB down marker function





For detailed information on R&S®FSL applications, please refer to the R&S®FSL product brochure (PD 0758.2790.12).