

R&S® Spectrum Rider FPH

Modulation analysis (R&S®FPH-K7) and receiver mode (R&S®FPH-K43)



► For more information, see www.rohde-schwarz.com/product/fph

The perfect choice for

Verifying AM/FM transmitted signals	Testing DUTs using AM/FM modulation
EMI debugging	

Key specifications

Frequency range	5 kHz to 31 GHz
Resolution bandwidth	1 Hz to 3 MHz
DANL at 3 GHz (preamp on)	< -163 dBm
Battery operation	> 6 hours
Weight	2.5 kg

Your benefit	Features
Easily upgradeable functions	User upgradeable software keycodes
Simple EMI troubleshooting setup	Fast EMI debugging with optional R&S®HZ-15/R&S®HZ-17 near-field probes setup
Portability	<ul style="list-style-type: none">Perform measurements anywhereWeights only 2.5 kg> 6 hours battery life

Buy only what is needed – invest when needed – upgrade as needed

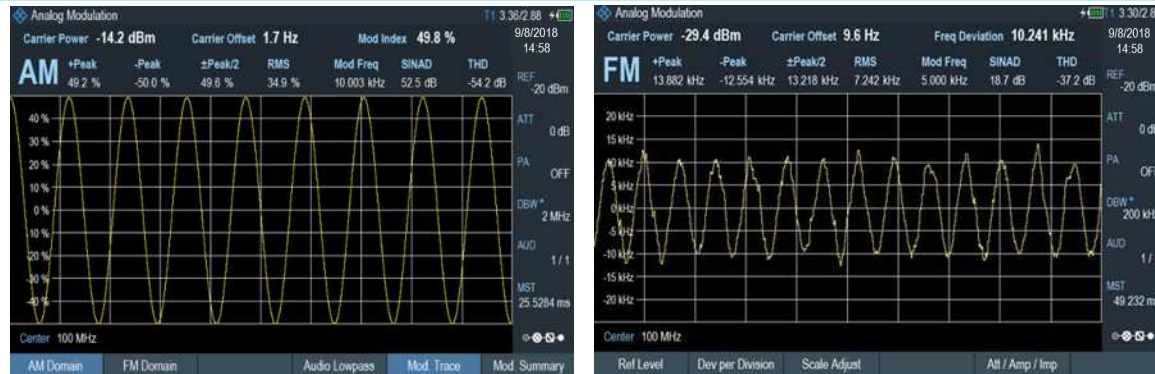
Modulation analysis

- R&S®FPH-K7 is used for analog modulation analysis. It measures the quality of amplitude or frequency modulated signals. The analog modulation display shows the waveform as well as measurement parameters such as carrier power, carrier offset, modulation index (depth) for AM signals, frequency deviation for FM signals, SINAD and THD. The modulation summary display provides user-definable limits for each measurement.
- This feature is especially useful for installing and maintaining AM/FM radio stations.

Receiver mode

- The R&S®FPH offers the R&S®FPH-K43 receiver mode option for EMI debugging on circuit boards, integrated circuits or cable shielding. Cost-effective yet powerful, the R&S®Spectrum Rider FPH can be used to analyze and locate disturbance sources during EMI debugging.
- The R&S®FPH-B22 preamplifier compensates for coupling loss of probes and increases sensitivity to detect small interfering signals.

R&S®FPH-K7: Modulation analysis



The R&S®FPH-K7 option is used for analog modulation analysis. It measures the quality of amplitude or frequency modulated signals. The analog modulation display shows the waveform as well as measurement parameters.

R&S®FPH-K43: Receiver mode

R&S®FPH-K43 is the receiver mode which includes quasi-peak detectors and CISPR bandwidths.

Conducted measurement setup

EMI software

R&S®ELEKTRA EMI



LISN

R&S®HM6050-2



EUT

Your EUT

The R&S®FPH can be combined with the R&S®HM6050-2 LISN and R&S®ELEKTRA software to create an economical EMI precompliance test setup for conducted measurements.



Spectrum analyzer
R&S®FPH

Radiated measurement setup

EMI software

R&S®ELEKTRA EMI



Near field probe
R&S®HZ-17

EUT

Your EUT

With near-field probe (R&S®HZ-15/R&S®HZ-17) provides a quick EMI debugging solution for radiated measurements. It can be used with or without the EMI software.



Spectrum analyzer
R&S®FPH

Choose your model and frequency

Base model

R&S®Spectrum Rider handheld spectrum analyzer, 5 kHz to 2/6/13.6/26.5 GHz	R&S®FPH
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Frequency and preamplifier upgrade for 2 GHz model

Spectrum analyzer frequency upgrade, 2 GHz to 3 GHz	R&S®FPH-B3
Spectrum analyzer frequency upgrade, 2 GHz to 4 GHz	R&S®FPH-B4
Preamplifier, 5 kHz to 4 GHz	R&S®FPH-B22

Frequency and preamplifier upgrade for 6 GHz model

Spectrum analyzer frequency upgrade, 6 GHz to 8 GHz	R&S®FPH-B8
Preamplifier, 5 kHz to 8 GHz	R&S®FPH-B23

Frequency and preamplifier upgrade for 13.6 GHz model

Spectrum analyzer frequency upgrade, 13.6 GHz to 20 GHz	R&S®FPH-B20
Preamplifier, 5 kHz to 20 GHz	R&S®FPH-B24

Frequency and preamplifier upgrade for 26.5 GHz model

Spectrum analyzer frequency upgrade, 26.5 GHz to 31 GHz	R&S®FPH-B31
Preamplifier, 5 kHz to 31 GHz	R&S®FPH-B25

Related options

R&S®FPH-K7	Modulation analysis
R&S®FPH-K43	Receiver mode

Related accessories for EMI debugging

R&S®HZ-15	Near-field probe, 30 MHz to 3 GHz
R&S®HZ-16	Amplifier, 100 kHz to 3 GHz
R&S®HZ-17	Near-field probe, 30 MHz to 3 GHz
R&S®HM6050-2	Line impedance stabilization network
R&S®FPC-Z1	Cable set for R&S®HM6050-2
R&S®EMCPC	License dongle
R&S®ELEMI-E	EMI emissions test software