

Learn about interference hunting in smart factories using the R&S®Spectrum Rider FPH



R&S®Spectrum Rider FPH Handheld Spectrum Analyzer



The three key Ps for lab and field environments

Performance – excellent DANL and phase noise

- ▶ Weak signals can be easily captured

Portability – weighs only 2.5 kg

- ▶ Carrying holster (R&S®HA-Z322) to free up hands
- ▶ Side strap included for easy transportation
- ▶ Selection of carrying cases available

Price – low starting price and optional software keycode upgrades

- ▶ Competitive and attractive price
- ▶ No downtime, no recalibration needed

Model overview

Model (frequency range)	Preamplifier	Resolution bandwidth	Phase noise	Level measurement uncertainty	DANL	TOI
R&S®FPH (5 kHz to 2 GHz)	optional	1 Hz to 3 MHz	-88 dBc (1 Hz), typ. -95 dBc (1 Hz)	up to 1.25 dB, typ. 0.5 dB	-158 dBm, typ. -163 dBm	typ. +10 dBm
R&S®FPH (5 kHz to 3 GHz)						
R&S®FPH-P5 (5 kHz to 4 GHz)						
R&S®FPH (5 kHz to 6 GHz)						
R&S®FPH (5 kHz to 8 GHz)						
R&S®FPH (5 kHz to 13.6 GHz)						
R&S®FPH (5 kHz to 20 GHz)						
R&S®FPH (5 kHz to 26.5 GHz)						
R&S®FPH (5 kHz to 31 GHz)					-158 dBm, typ. -162 dBm	

Important facts

Specification	R&S®Spectrum Rider FPH	Why this is important
Software upgradeable frequency ranges	•	Investment protection. Allows users to buy only what they need, when they need it.
Touchscreen (capacitive)	•	Allows faster measurement setup and configuration. Ability to pinch and zoom to set span.
Backlit keypad	•	Ability to use the equipment in all lighting conditions.
Fanless design	•	Quiet operation, sealed to protect against dust and water.

Scope of delivery

- ▶ Lithium-ion battery pack
- ▶ Side strap for your hand
- ▶ Power cord
- ▶ USB cable
- ▶ User manual
- ▶ 3 year warranty (one year for battery and accessories)

Recommended options/accessories

Description	Type
Power sensor support	R&S®FPH-K9
Channel power meter	R&S®FPH-K19
Pulse measurements with power sensor	R&S®FPH-K29
Interference analysis	R&S®FPH-K15
Signal strength mapping	R&S®FPH-K16

