R&S®FSC Spectrum Analyzer





Compact and cost-effective spectrum analyzer

- ► Performance
 - The R&S[®]FSC features very good RF performance. Its DANL, TOI and phase noise make it ideal for many standard measurement applications
 - General purpose spectrum analysis presets for spectral characteristics, e.g. harmonics, AM modulation depth and ACLR are included as standard
- ► Compact form factor:

The R&S[®]FSC has the smallest footprint in its class at only 3 HU, ½ 19". It takes up very little space on a bench. Two R&S[®]FSC analyzers or one R&S[®]FSC and an R&S[®]SMC signal generator fit in just 3 HU of rack space

 Cost-effective: Total cost of ownership is excellent due to affordable initial and calibration costs, plus very low operating cost with only 12 W power consumption

Model overview									
Model	Frequency range	Pream- plifier	Resolution bandwidth	Phase noise	Level measurement uncertainty	DANL	тоі		
R&S®FSC3, model .03 (base)	9 kHz to 3 GHz	optional	10 Hz to 3 MHz	–95 dBc (1 Hz), typ. –105 dBc (1 Hz)	up to 1 dB, typ. 0.5 dB	–161 dBm, typ. –165 dBm	> +10 dBm, typ. +15 dBm		
R&S®FSC3, model .13 (tracking gen.)	9 kHz to 3 GHz				up to 1.5 dB, typ. 0.5 dB	–161 dBm, typ. –165 dBm	> +10 dBm, typ. +15 dBm		
R&S®FSC6, model .06 (base)	9 kHz to 6 GHz				up to 1.5 dB, typ. 0.5 dB	–155 dBm, typ. –159 dBm	> +3 dBm, typ. +10 dBm		
R&S [®] FSC6, model .16 (tracking generator)	9 kHz to 6 GHz				up to 1.5 dB, typ. 1 dB	–155 dBm, typ. –159 dBm	> +3 dBm, typ. +10 dBm		

Important facts							
Specification	R&S [®] FSC	Why this is important					
Tracking generator dynamic range	typ. 90 dB	Provides higher dynamic range when performing filter measurements.					
Phase noise							
30 kHz	up to –95 dBc (1 Hz)	Lower phase noise enables greater signal detection accuracy close to the carrier.					
100 kHz	up to –100 dBc (1 Hz)						
1 MHz	up to –120 dBc (1 Hz)						

Recommended options/accessories					
Description	Туре				
Preamplifier for spectrum analyzer	R&S [®] FSC-B22				
19" rackmount kit for two R&S®FSC	R&S®ZZA-T33				
19" rackmount kit for one R&S®FSC	R&S®ZZA-T34				
Headphones	R&S®FSH-Z36				
Near-field probes, 30 MHz to 3 GHz	R&S®HZ-15				
Preamplifier for R&S®HZ-15, 100 kHz to 3 GHz	R&S®HZ-16				

