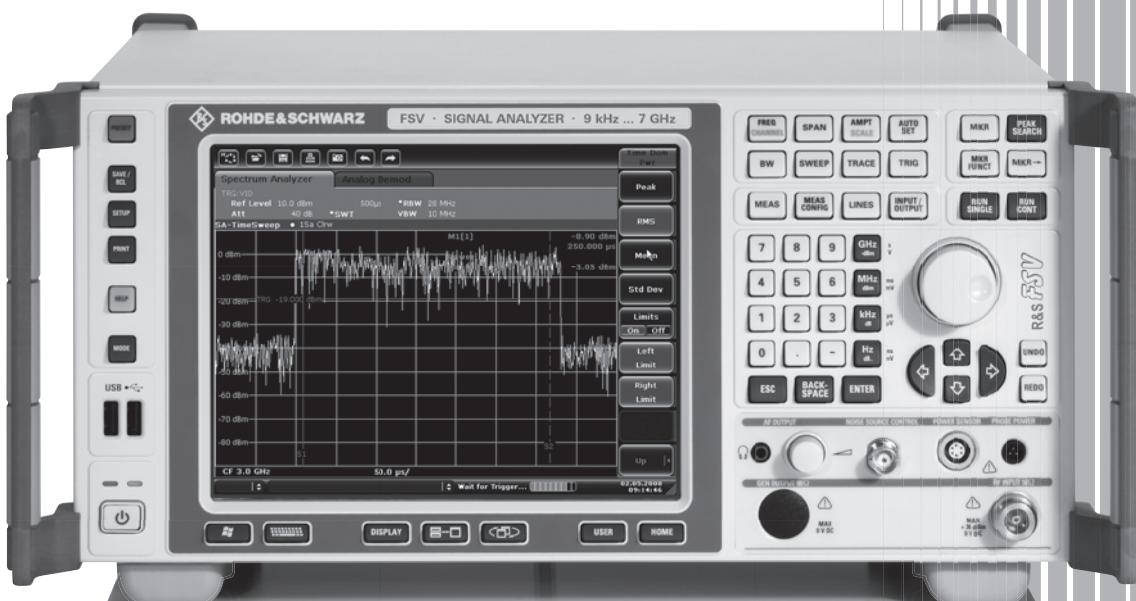


R&S®FSV

Signal Analyzer

Specifications



75 Years of
Driving
Innovation

 **ROHDE & SCHWARZ**

CONTENTS

Specifications	3
Frequency	3
Sweep time	4
Resolution bandwidths.....	4
Level	5
Measurement speed	7
Trigger functions	8
I/Q data	8
Inputs and outputs	9
General data	10
Options	11
R&S®FSV-B3 audio demodulator.....	11
R&S®FSV-B5 additional interfaces	11
Ordering information	12
Options.....	12
Recommended extras.....	13
Power sensors supported by R&S®FSV-K9 option	13

Specifications

Specifications apply under the following conditions: 30 minutes warm-up time at ambient temperature, specified environmental conditions met, calibration cycle adhered to, and all internal automatic adjustments performed. Data without tolerances: typical values only. Data designated "nominal" applies to design parameters and is not tested.

Rohde & Schwarz equipment is designed for reliable operation up to an altitude of 3000 m above sea level, and for transport up to an altitude of 4500 m above sea level.

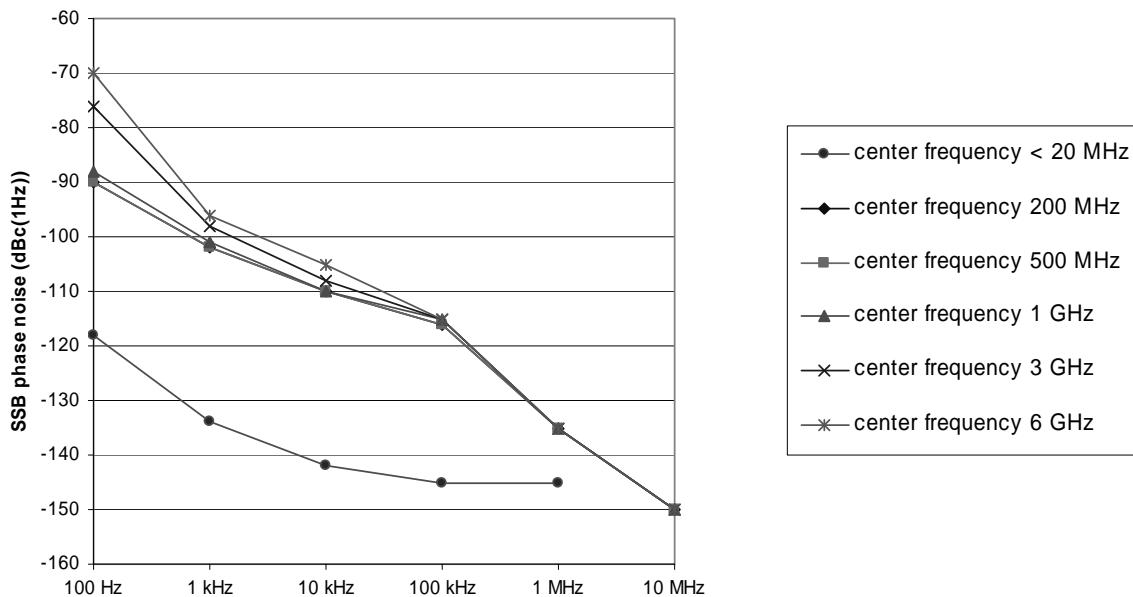
Frequency

Frequency range	R&S®FSV 3	
	DC coupled	9 kHz to 3.6 GHz
	AC coupled	1 MHz to 3.6 GHz
	R&S®FSV 7	
	DC coupled	9 kHz to 7 GHz
	AC coupled	1 MHz to 7 GHz
	with R&S®FSV-B29 option, DC coupled	20 Hz to f_{\max}
		0.01 Hz

Reference frequency, internal		
Accuracy		(time since last adjustment × aging rate) + temperature drift + calibration accuracy
Aging per year	standard	1×10^{-6}
	with R&S®FSV-B4 OCXO reference frequency option	1×10^{-7}
Temperature drift (+5 °C to +45 °C)	standard	1×10^{-6}
	with R&S®FSV-B4 OCXO reference frequency option	1×10^{-7}
Max. initial calibration accuracy	standard	5×10^{-7}
	with R&S®FSV-B4 OCXO reference frequency option	5×10^{-8}

Frequency readout		
Marker resolution		1 Hz
Uncertainty		$\pm(\text{marker frequency} \times \text{reference uncertainty} + 10\% \times \text{resolution bandwidth} + \frac{1}{2}(\text{span} / (\text{sweep points} - 1)) + 1\text{Hz})$
Number of sweep (trace) points	default value	691
	range	101 to 32001
Marker tuning frequency step size	marker step size = sweep points	span / (sweep points - 1)
	marker step size = standard	span / (default sweep points - 1)
Frequency counter resolution		0.001 Hz
Count accuracy		$\pm(\text{frequency} \times \text{reference uncertainty} + \frac{1}{2}(\text{last digit}))$
Display range for frequency axis		0 Hz, 10 Hz to max. frequency
Resolution		0.1 Hz
Max. span deviation		0.1 %

Spectral purity		
SSB phase noise	frequency = 500 MHz, carrier offset	
	100 Hz	<-84 dBc (1 Hz)
	1 kHz	<-101 dBc (1 Hz)
	10 kHz	<-106 dBc (1 Hz)
	100 kHz	<-115 dBc (1 Hz)
	1 MHz	<-134 dBc (1 Hz)
	10 MHz	typ. -150 dBc (1 Hz)
Residual FM	frequency = 500 MHz, RBW = 1 kHz, sweep time = 100 ms	<3 Hz, nominal



Typical phase noise at different center frequencies

Sweep time

Range	span = 0 Hz	1 μ s to 16000 s
	span \geq 10 Hz, swept	1 ms to 16000 s ¹
	span \geq 10 Hz, FFT	7 μ s to 16000 s ²
Sweep time accuracy	span = 0 Hz	0.1%, nominal
	span \geq 10 Hz, swept	3 %, nominal

Resolution bandwidths

Sweep filters and FFT filters		
Resolution bandwidths (-3 dB)	span \geq 10 Hz, sweep filters	1 Hz to 10 MHz in 1/2/3/5 sequence
	span \geq 10 Hz, FFT filters	1 Hz to 300 kHz in 1/2/3/5 sequence
	span = 0 Hz with R&S®FSV-B70 option, span = 0 Hz	20 MHz, 28 MHz additionally 40 MHz additionally
Bandwidth uncertainty		<3%, nominal
Shape factor 60 dB:3 dB		<5, nominal

Channel filters		
Bandwidths (-3 dB)	standard (RRC = root raised cosine)	100 Hz, 200 Hz, 300 Hz, 500 Hz 1, 1.5, 2, 2.4, 2.7, 3, 3.4, 4, 4.5, 5, 6, 8.5, 9, 10, 12.5, 14, 15, 16, 18 (RRC), 20, 21, 24.3 (RRC), 25, 30, 50, 100, 150, 192, 200, 300, 500 kHz 1, 1.228, 1.28 (RRC), 1.5, 2, 3, 3.84 (RRC), 4.096 (RRC), 5, ,10, 20, 28 MHz
	with R&S®FSV-B70 option	40 MHz additionally
Bandwidth accuracy		<2 %, nominal
Shape factor 60 dB:3 dB		<2, nominal

EMI filters		
Bandwidths (-6 dB)		200 Hz, 9 kHz, 120 kHz, 1 MHz
Bandwidth uncertainty		<3 %, nominal
Shape factor 60 dB:3 dB		<6, nominal

¹ Net sweep time without additional hardware settling time.

² Time for data acquisition for FFT calculation.

Video bandwidths	1 Hz to 10 MHz in 1/2/3/5 sequence, 20 MHz, 28 MHz	
	with R&S®FSV-B70 option	40 MHz additionally
Signal analysis bandwidth	standard with R&S®FSV-B70 option	28 MHz, nominal 40 MHz, nominal

Level

Display range	displayed noise floor up to +30 dBm
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Maximum input level		
DC voltage	AC coupled DC coupled	50 V 0 V
CW RF power	RF attenuation 0 dB RF preamplifier = OFF with R&S®FSV-B22 option, RF preamplifier = ON	20 dBm (= 0.1 W) 13 dBm (= 0.02 W)
	RF attenuation ≥ 10 dB RF preamplifier = OFF with R&S®FSV-B22 option, RF preamplifier = ON	30 dBm (= 1 W) 23 dBm (= 0.2 W)
Pulse spectral density	RF attenuation 0 dB, RF preamplifier = OFF	97 dB μV/MHz
Max. pulse voltage	RF attenuation ≥ 10 dB	150 V
Max. pulse energy	RF attenuation ≥ 10 dB, 10 μs	1 mWs

Intermodulation		
1 dB compression of input mixer	RF attenuation 0 dB RF preamplifier = OFF with R&S®FSV-B22 option, RF preamplifier = ON	+3 dBm, nominal –12 dBm, nominal
Third-order intercept point (TOI)	level 2 × –10 dBm, Δf > 5 × RBW or 10 kHz, whichever is larger, RF preamplifier = OFF 10 MHz ≤ f _{in} < 100 MHz 300 MHz ≤ f _{in} < 3.6 GHz 3.6 GHz ≤ f _{in} ≤ 7 GHz with R&S®FSV-B22 option, RF preamplifier = ON, level 2 × –10 dBm, Δf > 5 × RBW or 10 kHz, whichever is larger 10 MHz ≤ f _{in} < 100 MHz 300 MHz ≤ f _{in} < 3.6 GHz 3.6 GHz ≤ f _{in} ≤ 7 GHz	>12 dBm, typ. 15 dBm >13 dBm, typ. 16 dBm >15 dBm, typ. 18 dBm –3 dBm, nominal –2 dBm, nominal 0 dBm, nominal
Second harmonic intercept (SHI)	100 MHz < f _{in} ≤ 3.5 GHz RF preamplifier = OFF with R&S®FSV-B22 option, RF preamplifier = ON	typ. 40 dBm 25 dBm, nominal

Displayed average noise level		
0 dB RF attenuation, termination 50Ω , log. scaling, normalized to 1 Hz RBW, RBW = 1 kHz, VBW = 3 kHz, zero span, sweep time 50 ms, sample detector, trace average, sweep count = 20, mean marker, RF preamplifier = OFF		
9 kHz $\leq f < 100$ kHz	<-130 dBm, typ. -140 dBm	
100 kHz $\leq f < 1$ MHz	<-145 dBm, typ. -150 dBm	
1 MHz $\leq f < 1$ GHz	<-152 dBm, typ. -155 dBm	
1 GHz $\leq f < 3.6$ GHz	<-150 dBm, typ. -153 dBm	
3.6 GHz $\leq f < 6$ GHz	<-148 dBm, typ. -151 dBm	
6 GHz $\leq f \leq 7$ GHz	<-146 dBm, typ. -149 dBm	
with R&S®FSV-B22 option, RF preamplifier = ON		
0 dB RF attenuation, termination 50Ω , log. scaling, normalized to 1 Hz RBW, RBW = 1 kHz, VBW = 3 kHz, zero span, sweep time 50 ms, sample detector, trace average, sweep count = 20, mean marker		
100 kHz $\leq f < 1$ MHz	<-150 dBm, typ. -155 dBm	
1 MHz $\leq f < 1$ GHz	<-162 dBm, typ. -165 dBm	
1 GHz $\leq f < 3.6$ GHz	<-160 dBm, typ. -163 dBm	
3.6 GHz $\leq f < 6$ GHz	<-158 dBm, typ. -161 dBm	
6 GHz $\leq f \leq 7$ GHz	<-156 dBm, typ. -159 dBm	
with R&S®FSV-B29 option, RF preamplifier = OFF		
0 dB RF attenuation, termination 50Ω , log. scaling, normalized to 1 Hz RBW, RBW = 5 Hz, VBW = 5 Hz, zero span, sweep time 500 ms, sample detector, trace average, sweep count = 20, mean marker		
20 Hz	<-100 dBm, typ. -110 dBm	
100 Hz	<-110 dBm, typ. -120 dBm	
1 kHz	<-120 dBm, typ. -130 dBm	
Spurious responses		
Image response	$f_{in} - 2 \times 8410$ MHz (1st IF)	typ.<-80 dBc
	$f_{in} - 2 \times 730$ MHz (2nd IF)	<-80 dBc
	$f_{in} - 2 \times 90$ MHz (3rd IF)	<-80 dBc
Intermediate frequency response	1st IF (8410 MHz)	typ.<-70 dBc
	2nd IF (730 MHz)	<-80 dBc
	3rd IF (90 MHz)	<-80 dBc
Residual spurious response	0 dB RF attenuation	
	$f \leq 1$ MHz	<-90 dBm
	$f > 1$ MHz	<-103 dBm
Local oscillator related spurious	1 kHz \leq offset from carrier ≤ 10 MHz	<-70 dBc
	offset from carrier > 10 MHz	<-80 dBc
Other interfering signals		
Subharmonic of 1st LO	spurious at 8410 MHz $- 2 \times f_{in}$	<-70 dBc
Harmonic of 1st LO	mixer level <-25 dBm, spurious at $f_{in} - 4205$ MHz	<-70 dBc
Level display		
Logarithmic level axis	1 dB to 200 dB, in steps of 1/2/5	
Linear level axis	10 % of reference level per level division, 10 divisions or logarithmic scaling	
Number of traces	6	
Trace detector	Max Peak, Min Peak, Auto Peak (Normal), Sample, RMS, Average	
	EMI detectors Quasi Peak	
Trace functions	Clear/Write, Max Hold, Min Hold, Average, View	
Setting range of reference level	-130 dBm to (-10 dBm + RF attenuation -RF preamplifier gain), in steps of 0.01 dB	
Units of level axis	logarithmic level display	dBm, dB μ V, dBmV, dB μ A, dBpW
	linear level display	μ V, mV, μ A, mA, pW, nW

Level measurement uncertainty		
Absolute level uncertainty at 64 MHz	RBW = 10 kHz, level –10 dBm, reference level –10 dBm, RF attenuation 10 dB +20 °C to +30 °C +5 °C to +40 °C	<0.2 dB ($\sigma = 0.07$ dB) <0.35 dB ($\sigma = 0.12$ dB)
Frequency response referenced to 64 MHz	DC coupling, RF attenuation 10 dB, 20 dB, 30 dB, 40 dB, RF preamplifier = OFF, +20 °C to +30 °C 9 kHz $\leq f < 10$ MHz 10 MHz $\leq f < 3.6$ GHz 3.6 GHz $\leq f < 7$ GHz any setting of RF attenuation or RF preamplifier, +5 °C to +40 °C 9 kHz $\leq f < 3.6$ GHz 3.6 GHz $\leq f \leq 7$ GHz with R&S®FSV-B29 option, DC coupling, RF preamplifier = OFF, +5 °C to +40 °C 20 Hz $\leq f < 9$ kHz	<0.5 dB ($\sigma = 0.17$ dB) <0.3 dB ($\sigma = 0.1$ dB) <0.5 dB ($\sigma = 0.17$ dB) <1 dB ($\sigma = 0.33$ dB) <1.5 dB ($\sigma = 0.5$ dB) <1 dB ($\sigma = 0.33$ dB)
Attenuator switching uncertainty	f = 64 MHz, 0 dB to 70 dB, referenced to 10 dB attenuation	<0.2 dB ($\sigma = 0.07$ dB)
Uncertainty of reference level setting		0 dB ³
Bandwidth switching uncertainty	referenced to RBW = 10 kHz sweep filters FFT filters	<0.1 dB ($\sigma = 0.04$ dB) <0.2 dB ($\sigma = 0.07$ dB)

Display nonlinearity		
Logarithmic level display	S/N > 16 dB, 0 dB to –70 dB	<0.1 dB ($\sigma = 0.04$ dB)
Linear level display	S/N > 16 dB, 0 dB to –70 dB	5 % of reference level

Total measurement uncertainty		
	signal level 0 dB to –70 dB below reference level, S/N > 20 dB, sweep time auto, sweep type = sweep, RF attenuation 10 dB, 20 dB, 30 dB, 40 dB, RF preamplifier = OFF, span/RBW < 100, 95 % confidence level, +20 °C to +30 °C	
	9 kHz $\leq f < 10$ MHz	0.39 dB
	10 MHz $\leq f < 3.6$ GHz	0.28 dB
	3.6 GHz $\leq f < 7$ GHz	0.39 dB

Measurement speed

Local measurement and display update rate		2 ms (500/s)
Remote measurement 1000 sweep averages		1 ms (1000/s)
Remote measurement and LAN transfer		3 ms (333/s)
Marker peak search		1.5 ms
Center frequency tune and transfer		15 ms

³ The setting of the reference level affects only the graphical representation of the measurement result on the display, not the measurement itself. Therefore the reference level setting causes no additional uncertainty in measurement results.

Trigger functions

Trigger		
Trigger source		free run, video, external, IF power
Trigger offset	span \geq 10 Hz	31.25 ns to 30 s, resolution 31.25 ns min. (or 1 % of offset)
	span = 0 Hz	sweep time to 30 s, resolution 31.25 ns min. (or 1 % of offset)
Max. deviation of trigger offset		$\pm(7.8125 \text{ ns} + (0.1 \% \times \text{trigger offset}))$
IF power trigger		
Sensitivity	minimum signal power	$-60 \text{ dBm} + \text{RF attenuation} - \text{RF preamplifier gain}$
	maximum signal power	$-10 \text{ dBm} + \text{RF attenuation} - \text{RF preamplifier gain}$
IF power trigger bandwidth	RBW > 500 kHz, swept	40 MHz, nominal
	RBW > 20 kHz, FFT	
	RBW \leq 500 kHz, swept	6 MHz, nominal
	RBW \leq 20 kHz, FFT	
Gated sweep		
Gate source		video, external, IF power
Gate delay		31.25 ns to 30 s, min. resolution 31.25 ns (or 1 % of delay)
Gate length		31.25 ns to 30 s, min. resolution 31.25 ns (or 1 % of gate length)
Max. deviation of gate length		$\pm(7.8125 \text{ ns} + (0.1 \% \times \text{gate length}))$

I/Q data

Interface		GPIO or LAN interface
Memory length		max. 200 Msamples I and Q
Word length of I/Q samples	sampling rate > 64 MHz or number of samples > 100 Msample	18 bit
	otherwise	24 bit
Sample rate	standard	100 Hz to 45 MHz
	with R&S®FSV-B70 option	100 Hz to 128 MHz
Max. signal bandwidth (equalized)	standard	28 MHz
	with R&S®FSV-B70 option	40 MHz
Amplitude flatness		0.3 dB, nominal
Deviation from linear phase		1°, nominal

Inputs and outputs

RF input		
Impedance		50 Ω
Connector		N female
VSWR	RF attenuation ≥10 dB 10 MHz ≤ f < 3.6 GHz 3.6 GHz ≤ f ≤ 7 GHz RF attenuation <10 dB, DC coupled 10 MHz ≤ f ≤ 7 GHz	<1.5 <2 typ. 2
Setting range of attenuator	standard with R&S®FSV-B25 option	0 dB to 75 dB, in 5 dB steps 0 dB to 75 dB, in 1 dB steps
RF preamplifier gain	with R&S®FSV-B22 option	20 dB, nominal
Probe power supply		
Supply voltages		+15 V DC, -12.6 V DC and ground, max. 150 mA, nominal
Noise source drive		
Connector		BNC female
Output voltage		0 V/28 V, max.100 mA, switchable, nominal
Power sensor		
Connector		6-pin LEMOSA female for supported R&S®NRP-Zxx power sensors
USB interface		
		2 ports, type A plug, version 2.0
Reference output		
Connector		BNC female
Impedance		50 Ω
Output frequency	internal reference external reference	10 MHz same as reference input signal
Level		>0 dBm, nominal
Reference input		
Connector		BNC female
Impedance		50 Ω
Input frequency range		1 MHz ≤ f _{in} ≤ 20 MHz, in 1 MHz steps
Required level		>0 dBm from 50 Ω
External trigger/gate input		
Connector		BNC female
Trigger voltage		0.5 V to 3.5 V
Input impedance		10 kΩ
IEC/IEEE bus control		
Command set		interface in line with IEC 625-2 (IEEE 488.2)
Connector		SCPI 1997.0
Interface functions		24-pin Amphenol female SH1, AH1, T6, L4, SR1, RL1, PP1, DC1, DT1, C0
External monitor		
Connector		VGA-compatible, 15-pin, mini D-Sub

General data

Data storage		
Internal		hard disk ≥ 40 Gbyte, nominal
External		supports USB 2.0-compatible memory devices
Temperature		
Temperature	operating temperature range permissible temperature range storage temperature range	+5 °C to +40 °C 0°C to +50°C −40 °C to +70 °C
Climatic loading		+40 °C at 90 % rel. humidity, in line with EN 60068-2-30
Mechanical resistance		
Vibration	sinusoidal random	5 Hz to 150 Hz, max. 2 g at 55 Hz; 0.5 g from 55 Hz to 150 Hz; in line with EN 60068-2-6 EN 60068-2-64 10 Hz to 130 Hz, acceleration 1.2 g (rms)
Shock		40 g shock spectrum, in line with MIL-T-28800F, classes 3 and 5
EMC		EMC Directive 2004/108/EC including: EN 61326 class B (emission), CISPR 11/EN 55011/ group 1 class A ⁴ (emission) EN 61326 table A.1 (immunity, industrial)
Recommended calibration interval		1 year
Power supply		
AC supply		100 V to 240 V, 3 A to 1.25 A; 50 Hz to 400 Hz, class of protection I to VDE 411
Power consumption		typ. 90 W, max. 175 W with all options
Safety		in line with EN 61010-1, UL 3111-1, CSA C22.2 No. 1010-1, IEC 1010-1
Test mark		VDE, GS, CSA, CSA-NRTL
Weight and dimensions		
Dimensions	W × H × D	412 mm × 197 mm × 417 mm 16.22 in × 7.76 in × 16.42 in
Net weight without options, nominal	R&S®FSV3, R&S®FSV7	9.5 kg 20.94 lb

⁴ Note regarding use of instrument:

The instrument complies with the emission requirements stipulated by EN 55011 class A. This means that the instrument is suitable for use in industrial environments. According to EN 61000-6-4, operation is not covered in residential, commercial, and business areas nor in small-size companies. Thus the instrument must not be operated in residential, commercial, and business areas nor in small-size companies, unless additional measures are taken to ensure that EN 61000-6-3 is met.

Options

R&S®FSV-B3 audio demodulator

Demodulation	
AF demodulation types	AM and FM
Audio output	loudspeaker and phone jack
Marker stop time in spectrum mode	100 ms to 60 s
AF output	
Connector	3.5 mm mini jack
Output impedance	10 Ω
Open-circuit voltage	up to 1.5 V, adjustable

R&S®FSV-B5 additional interfaces

User port	
Connector	9-pin D-Sub male
Output	TTL-compatible, 0 V/5 V max. 15 mA
Input	TTL-compatible, max. 5 V

IF/video/demod out	
Connector	BNC female, 50 Ω
IF out	
Bandwidth	equal to RBW setting
IF frequency	32 MHz
Output level (gain versus RF input)	RF attenuation 0 dB, RF preamplifier OFF, span 0 Hz
	0 dB, nominal
Video out	
Bandwidth	equal to VBW setting
Output scaling	display scale log display scale lin
Output level	center frequency > 10 MHz, span 0 Hz, signal at reference level and center frequency
	1 V, open circuit, nominal

Trigger out	
Connector	BNC female
Output	TTL-compatible, 0 V/5 V

USB interface	2 ports, type A plug, version 2.0
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Ordering information

Designation	Type	Order No.
Signal Analyzer	R&S®FSV3	1307.9002.03
Signal Analyzer	R&S®FSV7	1307.9002.07
Accessories supplied		
Power cable, quick start guide and CD-ROM (with operating manual and service manual)		

Options

Designation	Type	Order No.	Retrofittable	Remarks
Ruggedized Housing	R&S®FSV-B1	1310.9500.02	no	
Audio Demodulator	R&S®FSV-B3	1310.9516.02	yes	retrofit in service center
OCXO Reference Frequency	R&S®FSV-B4	1310.9522.02	yes	user- retrofittable
Additional Interfaces	R&S®FSV-B5	1310.9539.02	yes	IF out, video out, AUX port, trigger out, 2 x USB
Spare Hard drive	R&S®FSV-B19	1310.9574.02	yes	user- retrofittable
RF Preamplifier (9 kHz to 7 GHz)	R&S®FSV-B22	1310.9600.02	yes	user- retrofittable
Electronic Attenuator, 1 dB steps	R&S®FSV-B25	1310.9622.02	yes	user- retrofittable
Frequency Range Extension 20 Hz	R&S®FSV-B29	1310.9639.02	yes	retrofit in service center
40 MHz Analysis Bandwidth	R&S®FSV-B70	1310.9645.02	yes	user- retrofittable
Firmware/software				
Analog Modulation Analysis (AM/FM/φM)	R&S®FSV-K7	1310.8103.02		
Power Sensor Support	R&S®FSV-K9	1310.8203.02		supports R&S®NRP power sensors
GSM/EDGE Analysis	R&S®FSV-K10	1310.8055.02		
3GPP FDD BS Analysis	R&S®FSV-K72	1310.8503.02		
3GPP FDD UE Analysis	R&S®FSV-K73	1310.8555.02		
WLAN IEEE 802.11a/b/g/j Analysis	R&S®FSV-K91	1310.8903.02		
WLAN IEEE 802.11n Analysis	R&S®FSV-K91n	1310.9468.02		requires R&S®FSV-B70
WiMAX IEEE 802.16 OFDM/OFDMA Analysis	R&S®FSV-K93	1310.9416.02		
EUTRA/LTE BS Analysis	R&S®FSV-K100	1310.9051.02		
EUTRA/LTE UE Analysis	R&S®FSV-K101	1310.9100.02		

Recommended extras

Designation	Type	Order No.
Headphones		0708.9010.00
IEC/IEEE Bus Cable, 1 m	R&S®PCK	0292.2013.10
IEC/IEEE Bus Cable, 2 m	R&S®PCK	0292.2013.20
19" Rack Adapter (not for R&S®FSV-B1)	R&S®ZZA-478	1096.3248.00
Soft Carrying Case (grey)	R&S®ZZT-473	1109.5048.00
Matching pads, 50/75 Ω		
L Section, matching at both ends	R&S®RAM	0358.5414.02
Series Resistor, 25 Ω, matching at one end (taken into account in instrument function RF INPUT 75 Ω)	R&S®RAZ	0358.5714.02
SWR bridges, 50 Ω		
SWR Bridge, 5 MHz to 3 GHz	R&S®ZRB2	0373.9017.5X
SWR Bridge, 40 kHz to 4 GHz	R&S®ZRC	1039.9492.5X
High-power attenuators		
100 W, 3/6/10/20/30 dB, 1 GHz	R&S®RBU100	1073.8495.XX (XX = 03/06/10/20/30)
50 W, 3/6/10/20/30 dB, 2 GHz	R&S®RBU50	1073.8695.XX (XX = 03/06/10/20/30)
50 W, 20 dB, 6 GHz	R&S®RDL50	1035.1700.52
Connectors and cables		
Probe power connector, 3-pin		1065.9480.00
DC blocks		
DC Block, 10 kHz to 18 GHz (type N)	R&S®FSE-Z4	1084.7443.02

Power sensors supported by R&S®FSV-K9 option

Order designation	Type	Order No.
Average Power Sensor 10 MHz to 8 GHz, 200 mW	R&S®NRP-Z11	1138.3004.02
Average Power Sensor 10 MHz to 18 GHz, 200 mW	R&S®NRP-Z21	1137.6000.02
Average Power Sensor 10 MHz to 18 GHz, 2 W	R&S®NRP-Z22	1137.7506.02
Average Power Sensor 10 MHz to 18 GHz, 15 W	R&S®NRP-Z23	1137.8002.02
Average Power Sensor 10 MHz to 18 GHz, 30 W	R&S®NRP-Z24	1137.8502.02
Power Sensor Module with Power Splitter DC to 18 GHz, 500 mW	R&S®NRP-Z27	1169.4102.02
Power Sensor Module with Power Splitter DC to 26.5 GHz, 500 mW	R&S®NRP-Z37	1169.3206.02
Average Power Sensor 9 kHz to 6 GHz, 200 mW	R&S®NRP-Z91	1168.8004.02
Thermal Power Sensor 0 Hz to 18 GHz, 100 mW	R&S®NRP-Z51	1138.0005.02
Thermal Power Sensor 0 Hz to 40 GHz, 100 mW	R&S®NRP-Z55	1138.2008.02
Wideband Power Sensor 50 MHz to 18 GHz, 100 mW	R&S®NRP-Z81	1137.9009.02

Service you can rely on

- | In 70 countries
- | Person-to-person
- | Customized and flexible
- | Quality with a warranty
- | No hidden terms

About Rohde & Schwarz

Rohde & Schwarz is an independent group of companies specializing in electronics. It is a leading supplier of solutions in the fields of test and measurement, broadcasting, radiomonitoring and radiolocation, as well as secure communications. Established 75 years ago, Rohde & Schwarz has a global presence and a dedicated service network in over 70 countries. Company headquarters are in Munich, Germany.

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Certified Quality System
ISO 9001
DQS REG. NO 1954 QM

Certified Environmental System
ISO 14001
DQS REG. NO 1954 UM

For product brochure,
see PD 5214.0499.12
and www.rohde-schwarz.com
(search term: FSV)

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