



R&S® EU4200 Multichannel VHF Receiver

New radio generation for ATC communications

- ◆ AM voice with 25 kHz and 8.33 kHz channel spacing
- ◆ Excellent receive sensitivity
- ◆ Compact dimensions
- ◆ TCP/IP remote control interface
- ◆ USB service port
- ◆ Low life-cycle costs
- ◆ Built-in test functionality



ROHDE & SCHWARZ

Specifications

Mechanical	
Dimensions	19"/2, 3 HU 220 mm × 132 mm × 413 mm including handles and rear protectors
Weight	≤5 kg
Operating temperature range	−20 °C to +55 °C
Electrical	
Power supply AC	115/230 V −10%/+15% at 47 Hz to 63 Hz
Power supply DC	19 V to 32 V
	primary power on AC, automatic switch-over to DC in case of AC supply failure
Power consumption AC (Standby/Rx)	typ. 6/32 W
Power consumption DC (Standby/Rx)	typ. 1/30 W
Electrical safety	in line with EN 60950
Electromagnetic compatibility	in line with EN 301489-1/-22
Common data	
Frequency range	
Standard	118 MHz to 136.975 MHz
Extended	112 MHz to 143.975 MHz
Channel spacing	25 kHz, 8.33 kHz
Frequency accuracy	
With TCXO	±1.0 ppm (−20 °C to +55 °C)
Standards complied with	EN 300676, ICAO Annex 10, Vol. III

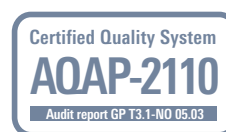
Receiver	
Antenna connector	BNC, 50 Ω
Receive sensitivity ¹⁾	≤−107 dBm
Oscillator reradiation	≤−110 dBm
Spurious response rejection	≥80 dB
Cross-modulation rejection	≥90 dB
Adjacent channel rejection	
At 25 kHz spacing	≥75 dB
At 8.33 kHz spacing	≥65 dB
Desensitization (blocking)	
At $\Delta f \geq 1$ MHz	≥100 dB
3rd order intermodulation rejection IM3	
At $\Delta f \geq 100/200$ kHz	≥80 dB
IF bandwidth	
At 25 kHz spacing	±11 kHz/6 dB, ±25 kHz/80 dB
At 8.33 kHz spacing	±3.5 kHz/6 dB, ±8.33 kHz/70 dB
AF response (+1/−3 dB referenced to 1 kHz)	
At 25 kHz spacing	300 Hz to 3400 Hz, ≥30 dB at 5 kHz
At 8.33 kHz spacing	350 Hz to 2500 Hz, ≥25 dB at 3.2 kHz
AF output	−30 dBm to +10 dBm in 1 dB steps (0 dBm nom.) into 600 Ω
Squelch	
Mute attenuation	≥70 dB
Setting range	
(S+N)/N	6 dB to 20 dB
Carrier override	≥−85 dBm

¹⁾ For ICAO ATC band.

Ordering information

Designation	Type	Order No.
VHF Receiver, 112 MHz to 144 MHz	R&S®EU4200	6130.2100.02
VHF Receiver, 118 MHz to 137 MHz	R&S®EU4200	6130.2100.07

R&S® Series 4200



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