



# VHF Single Channel Receiver

## RS560

ATC/Communication



RS560, VHF-AM receiver for ATC applications

The RS560 VHF-AM receiver is designed for applications in ATC environment like control centers, airports and for Airline company operations.

The RS560 receiver operates in AM-mode in the frequency range from 118.000 MHz to 136.9917 MHz, 25 KHz and 8,33 KHz channel spacing.

Interfaces for line out (0dbm @ 600 Ohms) recording output, loudspeaker output and AGC control voltage output as well as a squelch contact are available.

Control inputs are available for remote on/off, squelch on/off and muting.

The RS560 receiver is fully synthesized, change of frequency will be made by using a PC or via the remote control interface. No other adjustment is required.

8 units of RS560 can be carried by a 19" 3HU sub-rack to replace the older BECKER RG 3910 models.

Authorized Partner

**NOVEL**  
radio

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#### Technical data:

#### Single Channel Receiver

<b>Mechanical Dimensions:</b>	19" sub plug in unit,
Height:	3 HU, 132 mm
Wide:	10 HP, 50,8 mm
Depth:	300 mm, up to 350 mm possible
<b>Electrical Characteristics:</b>	
Frequency range:	118.000 MHz to 136,9917 MHz
Operating mode:	AM, Mode A3E
Frequency stability:	≤ 1 ppm (0° C to 50° C)
Channel spacing:	25 KHz and 8,33 KHz
Operating Voltage:	24 V DC, 21 to 31 V
Sensitivity:	- 101 dBm, 2 µV for 10 dB SINAD
Harmonic distortion:	≤5% (1KHz 30% mod.), ≤10% (1KHz 90% mod.),
AF-Bandpass:	25 KHz > 300 – 3400 Hz, - 3 dB, ref. 1KHz 8,33 KHz > 300 – 2500 Hz, - 3dB, ref. 1KHz
RF Bandpass at 6 dB:	25 KHz > ± 8,5 KHz 8,33 KHz > ± 2,8 KHz
Adjacent channel rejection:	> 60 dB
Intermodulation response rejection:	> 70 dB
Blocking or Desensitization:	> 80 dB
Crossmodulation:	≥ 80 dB
Squelch operation:	Attenuation > 60 dB Squelch operation switchable on-off
RF dynamic (100dB):	< 6 dB AF variation
AF AGC:	< 1,5 dB (30...90% mod.)
<b>AF-Outputs:</b>	
AF-Line output:	Level 0 dBm, adjustable - 15 to + 10 dBm Impedance 600 Ohms, balanced with center tap
Recorder output:	Level - 6 dBm, adjustable -15 to 0 dBm @600Ω, Impedance 600 Ohms, balanced

AF-AUX-Output:	0,5 V @ 1 K Ohm, for monitoring purposes
<b>Control-Outputs:</b>	
Squelch information:	dry relay contact, relay selectable to center tap by jumper
RX-OK info:	contact to ground (open collector)
AGC-Output:	DC analogue
Headset output:	Location Frontpanel, ≥ 20 mW@ 600 Ohm
Loudspeaker:	can be connected extern
<b>Control Inputs:</b>	
Remote On:	Switch to Gnd, Gnd = On
Remote-Local-Selector:	+ 5 to 12 V DC, switched to ground for remote
Muting input:	+ 5 to 12 V DC, switched to ground for muting
<b>Controls:</b>	
Switch SQL on-off:	Push button front panel or via Remote control
Volume control:	Potentiometer, Front panel
<b>Interface:</b>	RS422 for service purpose and remote control
<b>Indications:</b>	Power On LED RX On LED Sql LED RX ok LED, Dual colour, green ok, Red Error
<b>Climatic conditions:</b>	
Operating temp. range:	- 20°C to + 55°C
Storage temp.:	- 40°C to + 80°C
Humidity:	95% at +40°C without condensation
<b>Standards:</b>	ETSI EN 300676

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