

R&S®HE010E

Active Rod Antenna

8.3 kHz to 100 MHz

Sensitive monitoring in stationary and mobile applications



The R&S®HE010E active rod antenna is designed as a broadband monitoring antenna for vertically polarized waves.

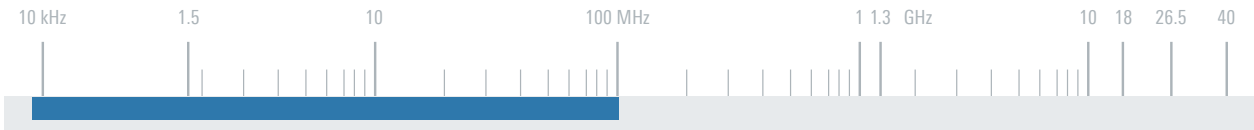
Its main application is sensitive monitoring in stationary and mobile applications where it offers very good reception results due to its low inherent noise figure, which is comparable to, and even below, the atmospheric or man-made noise.

The high sensitivity of the R&S®HE010E in combination with high interference immunity to large signals allows sensitive radiomonitoring and field strength measurements over a wide dynamic range.

Key facts

- Excellent wideband characteristics
- Low inherent noise figure
- High sensitivity in combination with high interference immunity to large signals
- Compact dimensions (rod length: 1 m)
- Protected against overvoltage that can occur as a result of atmospheric discharges or in the immediate vicinity of transmitting antennas





Specifications	
Frequency range	8.3 kHz to 100 MHz
Polarization	vertical
Input impedance	50 Ω
VSWR	
8.3 kHz to 20 kHz	< 4.5
20 kHz to 100 MHz	< 2
Antenna factor (antenna mounted on conductive plane)	typ. 11 dB/m
IP2	
Up to 30 MHz	≥ 50 dBm; typ. 60 dBm
30 MHz to 100 MHz	≥ 40 dBm
IP3	
Up to 30 MHz	≥ 30 dBm; typ. 33 dBm
30 MHz to 100 MHz	≥ 20 dBm

Power supply	24 V DC (-3 V/+2 V) (max. 190 mA)
Connector	N female
MTBF	> 250 000 h
Operating temperature range	-40°C to +65°C
Storage temperature range	-40°C to +85°C
Protection class	IP55, in line with EN 60529
Max. wind speed	275 km/h (without ice deposit)
Dimensions (Ø × L)	approx. 120 mm × 1 m (4.7 in × 39.4 in)
Weight	approx. 1 kg (2.2 lb)

Ordering information	Type	Order No.
Active Rod Antenna	R&S®HE010E	
Color: squirrel gray (RAL 7000)		4097.6004.02
Color: bronze green (RAL 6031)		4097.6004.03
Color: light ivory (RAL 1015)		4097.6004.04
Recommended extras		
Bias Unit	R&S®IN600	4094.3004.xx

