

R&S®HE600 ACTIVE OMNIDIRECTIONAL RECEIVING ANTENNA

20 MHz to 8 GHz

Sensitive monitoring in stationary and mobile installations



The R&S®HE600 active omnidirectional receiving antenna is designed as a monitoring antenna for vertical polarization in the frequency range from 20 MHz to 8 GHz.

The integrated preamplifier provides good reception results in a compact size.

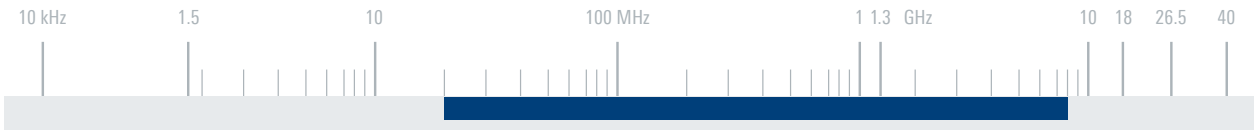
The dipole concept delivers superior radiation characteristics even without the presence of a ground plane.

A low-attenuation, weather-resistant radome makes the antenna suitable for operation under harsh environmental conditions.

Key facts

- ▶ Extremely wide frequency range
- ▶ Vertical polarization
- ▶ High sensitivity
- ▶ Low weight
- ▶ Compact size
- ▶ Suitable for operation under harsh environmental conditions

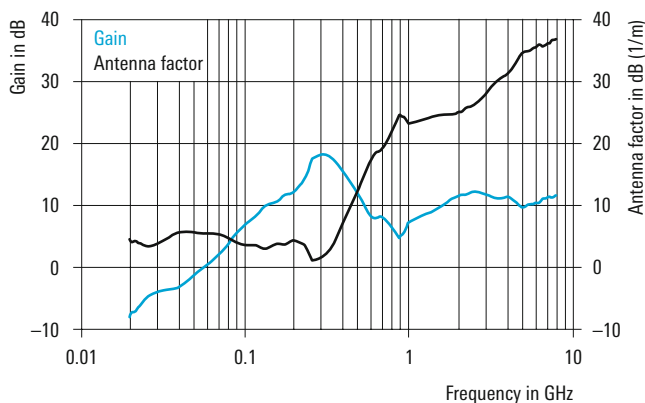




Specifications		
Frequency range		20 MHz to 8 GHz
Polarization		linear/vertical
RF connector		N female, 50 Ω
VSWR		typ. < 2
Gain and antenna factor		see diagram
Field strength sensitivity		see diagram
Circularity of azimuth pattern		typ. < 3 dB
IP3	20 MHz to 1.1 GHz	typ. > 28 dBm
	> 1.1 GHz to 3 GHz	typ. > 22 dBm
	> 3 GHz	typ. > 20 dBm
IP2	20 MHz to 1.1 GHz	typ. > 50 dBm
	> 1.1 GHz to 3 GHz	typ. > 38 dBm
	> 3 GHz	typ. > 32 dBm
Destructive field strength		> 50 V/m
Power supply (via coaxial cable)		15 V to 28 V DC (typ. 24 V, max. 180 mA)
Operating temperature range		-40°C to +65°C
Storage temperature range		-40°C to +85°C
Protection class		IP55
Max. wind speed	without ice deposit	275 km/h
	with 30 mm ice deposit	200 km/h
MTBF		> 100000 h
Dimensions	Ø × H	approx. 135 mm × 550 mm (5 in × 22 in)
Weight		approx. 2 kg (4 lb)

Ordering information	Type	Order No.
Active omnidirectional receiving antenna	R&S®HE600	
Color: squirrel gray (RAL 7000)		4094.9002.02
Color: bronze green (RAL 6031)		4094.9002.03
Color: light ivory (RAL 1015)		4094.9002.04
Recommended extras		
Bias unit	R&S®IN600	4094.3004.xx
Mast and tripod adapter	R&S®KM011Z9	4095.0750.02
Wooden tripod	R&S®HZ-1	0837.2310.02

Typical gain and antenna factor



Typical field strength sensitivity at antenna output (Δf = 1 Hz, S/N = 0 dB)

