

R&S®HE016

Active Antenna System

9 kHz to 80 MHz (vertical)

600 kHz to 40 MHz (horizontal)

Omnidirectional reception of vertically and horizontally polarized signals



Features

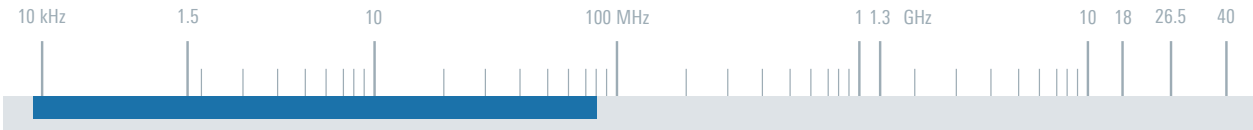
- Omnidirectional reception of horizontally and vertically polarized signals
- High linearity
- High immunity to lightning strokes in the vicinity
- Extremely small dimensions
- High sensitivity – comparable to that of passive antennas that are three times larger

Brief description

The R&S®HE016 active antenna system is a combination of the R&S®HE010 active rod antenna and two crossed HF dipole antennas. The two horizontal dipole antennas are combined via a 90° coupler to produce an omnidirectional radiation pattern.

The high sensitivity of the antenna system is comparable to that of passive systems although the R&S®HE016 requires less than one third of the antenna surface of a passive system.





Specifications	
Frequency range	
Vertical polarization	9 kHz to 80 MHz
Horizontal polarization	600 kHz to 40 MHz
Input impedance	50 Ω
VSWR	
10 kHz to 20 kHz	<3
20 kHz to 80 MHz	<2
IP2	≥50 dBm (up to 30 MHz)
IP3	≥30 dBm (up to 30 MHz)
Power supply	21 V to 26 V DC (max. 500 mA)

Power consumption	
Vertical	approx. 160 mA at 24 V DC
Horizontal	approx. 340 mA at 24 V DC
Connector	2 × N female
MTBF	>25 000 h
Operating temperature range	-40°C to +65°C
Max. wind speed	188 km/h (without ice deposit)
Dimensions	
Height	approx. 1.4 m (approx. 55.1 in)
Diameter	approx. 2.85 m (approx. 112.2 in)
Weight	approx. 5.5 kg (approx. 12.1 lb)

Ordering information	Type	Order No.
Active Antenna System	R&S®HE016	4051.8504.02
Recommended extras		
Power Supply Unit	R&S®IN115	4004.1707.02
Mast, length 6 m, can be disassembled	R&S®KM011	0273.9116.02

