

10 kHz to 80 MHz (vertical)

600 kHz to 40 MHz (horizontal)

Omnidirectional reception also for horizontally polarized waves



Photo 43061

Brief description

This antenna system is a combination of the Active Rod Antenna R&S HE010 and two crossed HF dipole antennas. The two horizontal dipole antennas are combined via a 90° coupler to produce an omnidirectional antenna pattern for the reception of horizontally polarized signals.

Special features

- ◆ Extremely small dimensions
- ◆ High sensitivity – same system sensitivity as comparable passive antennas with more than three times the size
- ◆ High linearity
- ◆ High immunity to nearby lightning strikes
- ◆ Optimum results under any receiving conditions with minimum space requirement
- ◆ Omnidirectional reception of horizontally and vertically polarized signals

Specifications

Frequency range	
Vertical polarization	10 kHz to 80 (120) MHz
Horizontal polarization	600 kHz to 40 MHz
Nominal impedance	50 Ω
VSWR	<2 (10 kHz to 20 kHz: <3)
Intercept point	
2nd order	≥50 dBm up to 30 MHz
3rd order	≥30 dBm up to 30 MHz
Power supply	21 V to 26 V DC (460 mA)
Connector	2 × N female
Operating temperature range	−40 °C to +65 °C
Max. wind speed	188 km/h (without ice deposit)
Dimensions (dia. × H)	3 m × 1.4 m
Weight	3 kg

Ordering information

Active Antenna System	R&S HE016	4051.8504.02
Recommended extras		
Power Supply Unit	R&S IN 115	4004.1707.02
6 m Plug-In Mast	R&S KM011	0273.9116.02