

VHF/UHF Antennas

Receiving Antenna System R&S® AU 900A4



10 kHz to 3000 MHz

Omnidirectional and directional reception
of vertically and horizontally polarized
waves

Features

- ◆ Omnidirectional and directional reception
- ◆ Reception of vertically and horizontally polarized signals
- ◆ Rotatable
- ◆ Ideal for radiomonitoring and radiolocation
- ◆ Customized antenna configuration

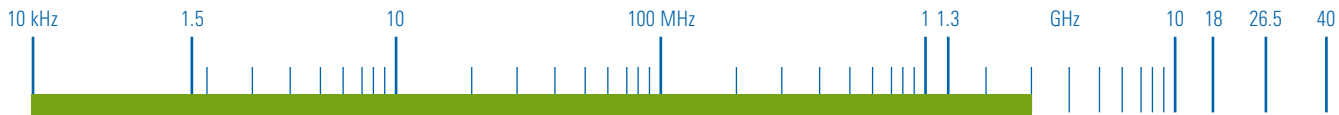


Brief description

The rotatable Receiving Antenna System R&S® AU 900A4 has been designed for the reception of linearly polarized electromagnetic waves in the frequency range 10 kHz to 3 GHz.

Owing to its excellent characteristics (wide frequency bandwidth, horizontal and vertical polarization, omnidirectional and directional reception), the antenna system is particularly suitable for radiomonitoring and radiolocation.

The antenna has been designed for the most adverse environmental conditions and is notable for compact design, reduced space requirements and simple installation.



Specifications

Frequency range	10 kHz to 3 GHz
Polarization	horizontal and vertical
Input impedance	50 Ω
Connectors	
(type and number)	depending on antennas used
Operating temperature range	-40 °C to +50 °C
Max. wind speed	180 km/h (without ice deposit) ¹⁾
Wind load (at 180 km/h)	13500 N ¹⁾

Range of rotation	0° to 400°
Dimensions (H × W)	approx. 6.5 m × 3.1 m ¹⁾
MTBF	≥15000 h
Weight	approx. 350 kg ¹⁾
	approx. 1000 kg ¹⁾ (with 30 mm radial ice deposit)

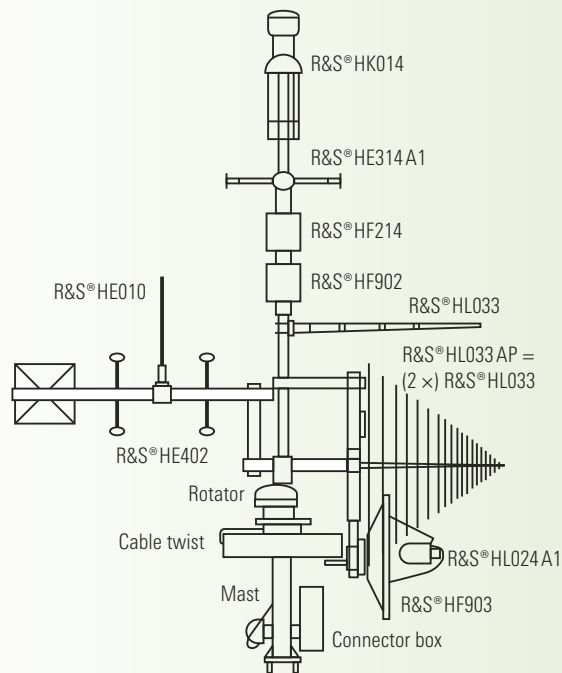
¹⁾ Maximum configuration.

Ordering information

Receiving Antenna System	R&S®AU900A4	4045.0205.15
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Recommended extras

Antenna Control Unit (for indoor use, control via RS-232-C interface and manual operation)		
With external		
rotator control	R&S®GB 127S	3022.2011.02
With integrated		
rotator control	R&S®GB 127M	3022.2511.02
Rotator Control Unit (with switch)	R&S®RD 127	3021.9012.05



Design

	10 kHz	20 MHz	68 MHz 80 MHz	500 MHz 1.3 GHz 2 GHz	3 GHz
Directional antennas		R&S®HE402	R&S®HL033	R&S®HL033AP	R&S®HF903
			R&S®HE402	R&S®HL033AP	R&S®HF903
Omnidirectional antennas			R&S®HE314A1		R&S®HF902
		R&S®HE010		R&S®HK014	R&S®HF902

Operating frequency ranges