

R&S®AU900A4 Receiving Antenna System

9 kHz to 3 GHz

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

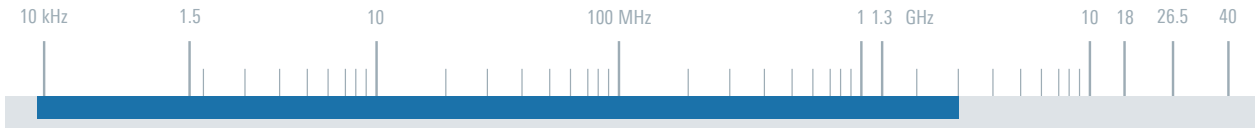
Brief description

The rotatable R&S®AU900A4 receiving antenna system 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.



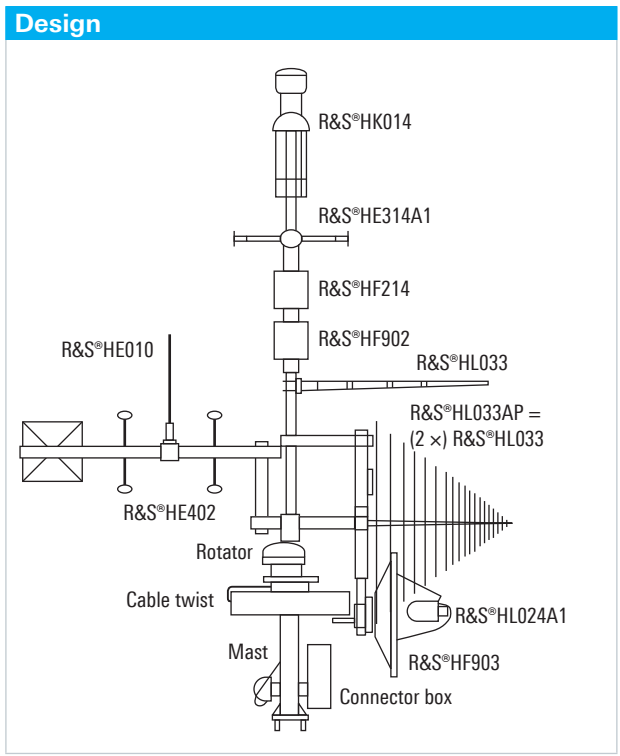


Specifications	
Frequency range	9 kHz to 3 GHz
Polarization	horizontal and vertical
Input impedance	50 Ω
Connectors (type and number)	depending on antennas used
Max. wind speed	180 km/h (without ice deposit) ¹⁾
Wind load (at 180 km/h)	13500 N ¹⁾
Range of rotation	0° to 400°
MTBF	≥15000 h

Operating temperature range	-40°C to +50°C
Dimensions	
Height	approx. 6.5 m (approx. 255.9 in) ¹⁾
Width	approx. 3.1 m (approx. 122.1 in) ¹⁾
Weight	
Without ice deposit	approx. 350 kg (approx. 771.6 lb) ¹⁾
With 30 mm radial ice deposit	approx. 1000 kg (approx. 2204.6 lb) ¹⁾

¹⁾ Maximum configuration.

Ordering information	Type	Order No.
Receiving Antenna System	R&S®AU900A4	4045.0205.16
Recommended extras		
Antenna Control Unit (for indoor use, control via RS-232-C interface and manual operation)		
With external rotator control	R&S®GB127S	3022.2011.02
With integrated rotator control	R&S®GB127M	3022.2511.02
Rotator Control Unit (with switch)	R&S®RD127	3021.9012.05



Operating frequency ranges		9 kHz 10 kHz	20 MHz	68 MHz 80 MHz	500 MHz 1.3 GHz 2 GHz	3 GHz
Directional antennas	Vert. polarization		R&S®HE402	R&S®HL033	R&S®HF903	
	Hor. polarization			R&S®HL033AP	R&S®HF903	
Omnidirectional antennas	Vert. polarization					
	Hor. polarization		R&S®HE314A1		R&S®HF214	
		R&S®HE010		R&S®HK014	R&S®HF902	