

R&S®HE300 Active Directional Antenna

20 MHz (optional 9 kHz) to 7.5 GHz

Portable directional antenna for locating transmitters and interference sources

New



Features

- Unambiguous radiation pattern
- Direction is found by orienting antenna toward maximum field strength
- Very wideband performance in a practical size
- Low weight, due to optimized selection of materials, ensures fatigue-proof handling
- Horizontal and vertical polarization
- Wide dynamic range
- Passive antenna if amplifier is switched off

Brief description

The practical and very wideband R&S®HE300 active directional antenna locates transmitters and interference sources when combined with portable receivers (e.g. the R&S®PR100).

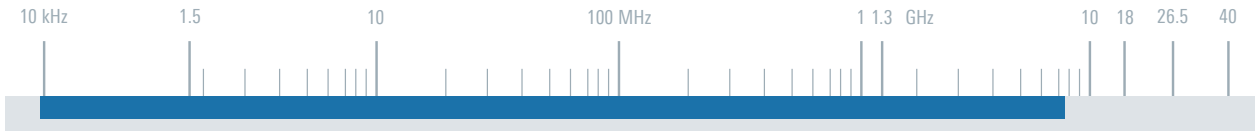
Three exchangeable antenna modules that are supplied with the antenna cover the 20 MHz to 7.5 GHz frequency range. An additional module (R&S®HE300HF for 9 kHz to 20 MHz) is available as an option.

The modules can be plugged into the handle with the correct orientation for vertical or horizontal polarization and then mechanically locked in place.

A built-in, low-noise wideband amplifier can be activated to enhance system sensitivity (active mode).

In passive mode, the amplifier is bypassed so that the R&S®HE300 can also be used in the vicinity of strong signal sources.





Specifications	
Frequency range	9 kHz to 7.5 GHz
Antenna module 1	20 MHz to 200 MHz
Antenna module 2	200 MHz to 500 MHz
Antenna module 3	500 MHz to 7.5 GHz
Optional antenna module (R&S®HE300HF)	9 kHz to 20 MHz
Polarization	horizontal and vertical (by rotating the module before plugging it into the handle)
Input impedance	50 Ω
VSWR	typ. <2.5 (except R&S®HE300HF module)
Power supply	
Batteries	1.5 V AA cells (6 ×)
Rechargeable cells	1.2 V (6 ×)
External	8 V via plug

Current drain	approx. 100 mA at +25°C
Connector	cable (approx. 1 m) emerging from handle, with N connector
MTBF	>50 000 h, in line with MIL-HDBK-217E, ground fixed, +25°C
Operating temperature range	-30°C to +55°C
Dimensions	
L × W × H, with antenna module 1	approx. 580 mm × 310 mm × 90 mm (approx. 22.8 in × 12.2 in × 3.5 in)
Weight	
Antenna with antenna module 1	approx. 1.3 kg (approx. 2.9 lb)
Antenna, complete including transit case	approx. 6.7 kg (approx. 14.8 lb)

Ordering information	Type	Order No.
Active Directional Antenna	R&S®HE300	4067.5900.02
Recommended extras		
Portable Receiver	R&S®PR100	4071.9006.02
HF Option (9 kHz to 20 MHz)	R&S®HE300HF	4067.6806.02

