

# Активная антенна HE016



**Диапазон 9 кГц - 80 МГц / 600 кГц - 40 МГц**

**Архангельск** (8182)63-90-72  
**Астана** (7172)727-132  
**Астрахань** (8512)99-46-04  
**Барнаул** (3852)73-04-60  
**Белгород** (4722)40-23-64  
**Брянск** (4832)59-03-52  
**Владивосток** (423)249-28-31  
**Волгоград** (844)278-03-48  
**Вологда** (8172)26-41-59  
**Воронеж** (473)204-51-73  
**Екатеринбург** (343)384-55-89  
**Иваново** (4932)77-34-06

**Ижевск** (3412)26-03-58  
**Иркутск** (395)279-98-46  
**Казань** (843)206-01-48  
**Калининград** (4012)72-03-81  
**Калуга** (4842)92-23-67  
**Кемерово** (3842)65-04-62  
**Киров** (8332)68-02-04  
**Краснодар** (861)203-40-90  
**Красноярск** (391)204-63-61  
**Курск** (4712)77-13-04  
**Липецк** (4742)52-20-81

**Киргизия** (996)312-96-26-47

**Магнитогорск** (3519)55-03-13  
**Москва** (495)268-04-70  
**Мурманск** (8152)59-64-93  
**Набережные Челны** (8552)20-53-41  
**Нижний Новгород** (831)429-08-12  
**Новокузнецк** (3843)20-46-81  
**Новосибирск** (383)227-86-73  
**Омск** (3812)21-46-40  
**Орел** (4862)44-53-42  
**Оренбург** (3532)37-68-04  
**Пенза** (8412)22-31-16

**Россия** (495)268-04-70

**Пермь** (342)205-81-47  
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**Рязань** (4912)46-61-64  
**Самара** (846)206-03-16  
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**Саратов** (845)249-38-78  
**Севастополь** (8692)22-31-93  
**Симферополь** (3652)67-13-56  
**Смоленск** (4812)29-41-54  
**Сочи** (862)225-72-31  
**Ставрополь** (8652)20-65-13

**Казахстан** (772)734-952-31

**Сургут** (3462)77-98-35  
**Тверь** (4822)63-31-35  
**Томск** (3822)98-41-53  
**Тула** (4872)74-02-29  
**Тюмень** (3452)66-21-18  
**Ульяновск** (8422)24-23-59  
**Уфа** (347)229-48-12  
**Хабаровск** (4212)92-98-04  
**Челябинск** (351)202-03-61  
**Череповец** (8202)49-02-64  
**Ярославль** (4852)69-52-93

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# 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



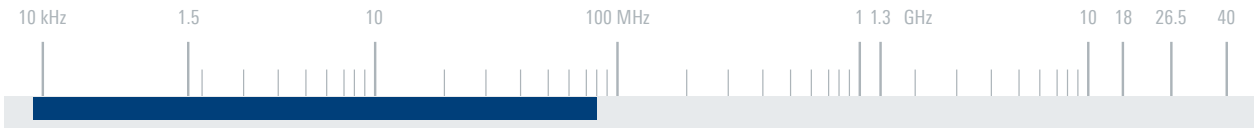
The R&S®HE016 active antenna system is a combination of the R&S®HE010E active rod antenna and two crossed HF dipole antennas. The two horizontal dipole antennas are combined via a 90° coupler to produce an omnidirectional radiation pattern.

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

## Key facts

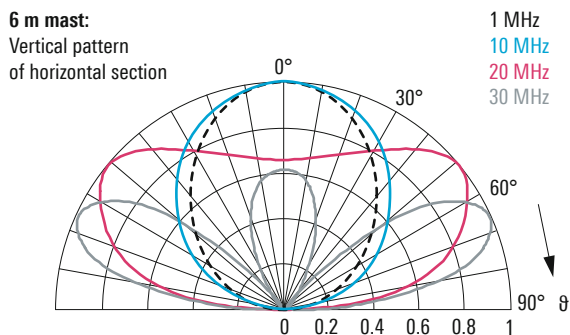
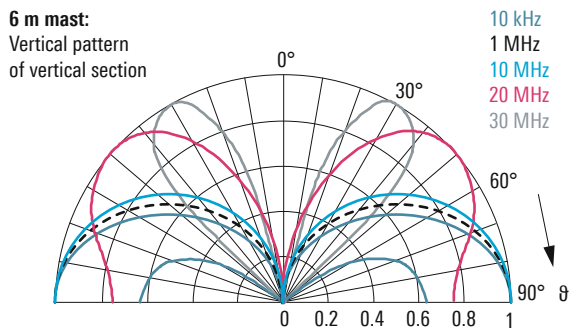
- ▶ Omnidirectional reception of horizontally and vertically polarized signals
- ▶ High linearity
- ▶ High immunity to lightning strikes in the vicinity
- ▶ Extremely compact
- ▶ High sensitivity – comparable to that of passive antennas that are three times larger



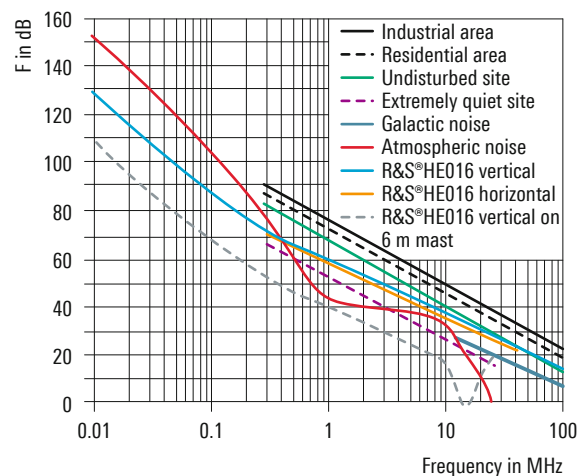


Specifications		
Frequency range	vertical polarization	9 kHz to 80 MHz
	horizontal polarization	600 kHz to 40 MHz
Input impedance		50 Ω
VSWR	9 kHz to 20 kHz	< 3
	20 kHz to 80 MHz	< 2
Sensitivity	vertical (> 1 MHz)	< -50 dB(uV/m/Hz)
	horizontal	< -30 dB(uV/m/Hz)
IP2	up to 30 MHz	≥ 50 dBm
IP3	up to 30 MHz	≥ 30 dBm
Power supply		21 V to 26 V DC (max. 500 mA)
Power consumption	vertical	max. 160 mA at 24 V DC
	horizontal	max. 340 mA at 24 V DC
Connector		2 × N female
MTBF		> 25000 h
Operating temperature range		-40°C to +65°C
Protection class		IP55
Max. wind speed	without ice deposit	188 km/h
Dimensions	Ø × H	approx. 2.85 m × 1.4 m (9 ft × 6 ft)
Weight		approx. 5.5 kg (12 lb)

Typical radiation patterns



Typical inherent noise compared with different standard noise environments



Ordering information	Type	Order No.
Active antenna system	R&S®HE016	4051.8504.02
<b>Recommended extras</b>		
Bias unit	R&S®IN600	4094.3004.x2
Mast, length: 6 m, pluggable	R&S®KM011	0273.9116.02



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