

R&S® ADD015 CENTRIC MAST HF DF ANTENNA

Product Brochure
Version 01.00

ROHDE & SCHWARZ

Make ideas real



AT A GLANCE

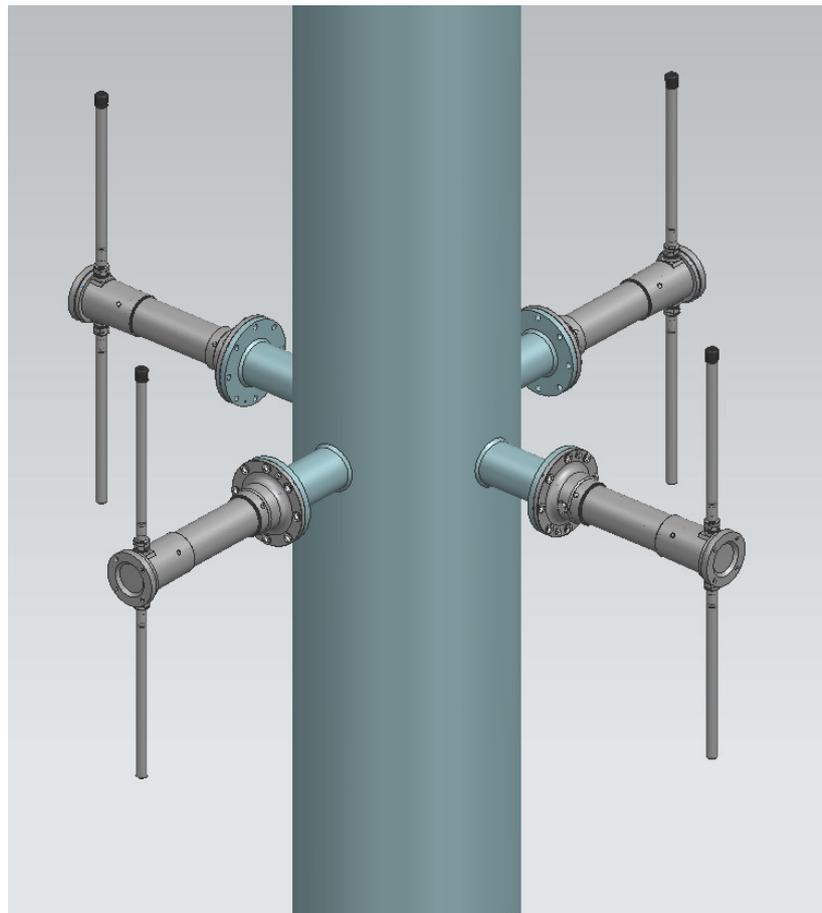
R&S®ADDx multichannel DF antennas are vital to Rohde & Schwarz direction finder performance. The technology is based on over 50 years of experience in developing DF antennas with superior sensitivity and accuracy.

The R&S®ADD015 centric mast HF DF antenna is optimized for radiolocation from mobile and shipborne monitoring and COMINT/CESM platforms. The antenna is designed to receive vertically polarized waves in the HF frequency range. The R&S®ADD015 supports Rohde & Schwarz multichannel direction finders using the Watson-Watt method.

The antennas are designed and built to be mounted around a mast (centric mast) of any diameter. The antenna can also be installed in harsh environments, such as mobile platforms or onboard ships. Resonance from the mast structure can affect DF antenna performance. The optional external R&S®HP015 reference antenna can help minimize these effects by acting as a reference signal.

KEY FACTS

- ▶ Frequency range from 1 MHz to 30 MHz
- ▶ Suitable for ground waves and low-angle sky waves
- ▶ Circular array with four dipole antenna elements with integrated ferrite loops
- ▶ For installation around a mast (centric mast design)
- ▶ Variable DF antenna diameter for easy adaptation to the mast



SPECIFICATIONS IN BRIEF

Specifications in brief

Frequency range		1 MHz to 30 MHz
Polarization		vertical, for ground waves and low-angle sky waves
System DF accuracy ¹⁾	with installed lightning protection (lightning rod or R&S®ADD-LP)	2° RMS (typ.)
Dimensions	Ø ²⁾ × H	approx. 1.1 m to 1.5 m × 0.8 m (3.61 ft to 4.92 ft × 2.62 ft)
Weight	antenna array, incl. cabling	approx. 27 kg (59.52 lb)
	combiner network	approx. 11 kg (24.25 lb)

¹⁾ Measurement in reflection-free environment. The RMS error is calculated from the bearings of evenly distributed samples versus azimuth and frequency.

²⁾ Diameter is variable.

ORDERING INFORMATION

Description	Type	Order No.
Antenna, for use with R&S®DDF550/R&S®DDF5GTS		
Centric mast HF DF antenna, color: squirrel gray, cable length: 8 m (EF400)	R&S®ADD015	4200.7002.04
Centric mast HF DF antenna, color: light ivory, cable length: 5 m (RG214)	R&S®ADD015	4200.7002.52
Centric mast HF DF antenna, color: yellow olive, cable length: 5 m (RG214)	R&S®ADD015	4200.7002.53
Centric mast HF DF antenna, color: squirrel gray, cable length: 5 m (RG214)	R&S®ADD015	4200.7002.54
Centric mast HF DF antenna, color: bronze green, cable length: 5 m (RG214)	R&S®ADD015	4200.7002.55
Centric mast HF DF antenna, color: light ivory, cable length: 8 m (RG214)	R&S®ADD015	4200.7002.82
Centric mast HF DF antenna, color: yellow olive, cable length: 8 m (RG214)	R&S®ADD015	4200.7002.83
Centric mast HF DF antenna, color: squirrel gray, cable length: 8 m (RG214)	R&S®ADD015	4200.7002.84
Accessories (optional)		
Reference antenna element, color: light ivory	R&S®HP015	4200.7902.02
Reference antenna element, color: yellow olive	R&S®HP015	4200.7902.03
Reference antenna element, color: squirrel gray	R&S®HP015	4200.7902.04
Reference antenna element, color: bronze green	R&S®HP015	4200.7902.05

Service at Rohde & Schwarz You're in great hands

- ▶ Worldwide
- ▶ Local and personalized
- ▶ Customized and flexible
- ▶ Uncompromising quality
- ▶ Long-term dependability

Rohde & Schwarz

The Rohde&Schwarz technology group is among the trail-blazers when it comes to paving the way for a safer and connected world with its leading solutions in test & measurement, technology systems and networks&cybersecurity. Founded more than 85 years ago, the group is a reliable partner for industry and government customers around the globe. The independent company is headquartered in Munich, Germany and has an extensive sales and service network with locations in more than 70 countries.

www.rohde-schwarz.com

Sustainable product design

- ▶ Environmental compatibility and eco-footprint
- ▶ Energy efficiency and low emissions
- ▶ Longevity and optimized total cost of ownership

Certified Quality Management

ISO 9001

Certified Environmental Management

ISO 14001

Rohde & Schwarz training

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