

R&S® ADD253 WIDEBAND VHF/UHF 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®ADD253 wideband VHF/UHF DF antenna is optimized for radiolocation from fixed, mobile and transportable spectrum monitoring stations and COMINT/CESM platforms. It is designed for operation with Rohde & Schwarz multichannel direction finders and features integrated lightning protection that does not affect the performance. The optional R&S®ADD-LP extended lightning protection cross is available.

The R&S®ADD253 has active antenna elements that can be switched to passive operation with a mouse click in the frequency range from 20 MHz to 1.3 GHz.

The R&S®ADD253 performance is in line with all relevant ITU recommendations and the ITU Handbook on Spectrum Monitoring.

The R&S®ADD253 can be installed on masts with the R&S®ADD150A mast adapter and used with the R&S®ADD1XTP tripod with adapter. For mobile applications, the R&S®ADD253 can be installed on a vehicle roof with the R&S®AP502Z1 vehicle adapter.

The R&S®IN061 power supply is required for antenna cables longer than 42 m.

KEY FACTS

- ▶ Frequency range from 20 MHz to 3 GHz
- ▶ Superior system DF accuracy
- ▶ Antenna elements with active/passive switch (20 MHz to 1.3 GHz)
- ▶ Integrated lightning protection that does not affect performance
- ▶ In line with all relevant ITU recommendations



SPECIFICATIONS IN BRIEF

Specifications in brief

Frequency range	20 MHz to 3 GHz	
Polarization		vertical
System DF accuracy	with installed lightning protection, in line with Recommendation ITU-R SM.2060	
	20 MHz to 3 GHz	1° RMS (typ.)
Antenna element design	in line with ITU Handbook on Spectrum Monitoring, edition 2010, chapter 3.2.4.1	
	20 MHz to 1.3 GHz	active antenna element with active/passive switch
	1.3 GHz to 3 GHz	passive
Lightning protection	in line with ITU Handbook on Spectrum Monitoring, edition 2010, chapter 2.6.2.4.6	lightning rod mounted vertically above the antenna system
Dimensions	Ø × H, without lightning rod	approx. 1.1 m × 0.45 m (3.61 ft × 1.48 ft)
Weight	without ice deposit, with lightning protection rod	approx. 36 kg (79.37 lb)

ORDERING INFORMATION

Description	Type	Order No.
Antenna		
VHF/UHF DF antenna, color: light ivory	R&S®ADD253	4071.4004.12
VHF/UHF DF antenna, color: squirrel grey	R&S®ADD253	4071.4004.13
VHF/UHF DF antenna, color: yellow olive	R&S®ADD253	4071.4004.14
VHF/UHF DF antenna, color: bronze green	R&S®ADD253	4071.4004.15
Accessories		
Adapter for masts		
Mast adapter, color: light ivory	R&S®ADD150A	4041.2655.02
Mast adapter, color: yellow olive	R&S®ADD150A	4041.2655.03
Mast adapter, color: squirrel grey	R&S®ADD150A	4041.2655.04
Mast adapter, color: bronze green	R&S®ADD150A	4041.2655.05
Mast adapter, color: traffic red	R&S®ADD150A	4041.2655.06
Adapter for vehicles		
Vehicle adapter, color: light ivory	R&S®AP502Z1	0515.1419.02
Vehicle adapter, color: yellow olive	R&S®AP502Z1	0515.1419.03
Vehicle adapter, color: squirrel grey	R&S®AP502Z1	0515.1419.04
Vehicle adapter, color: bronze green	R&S®AP502Z1	0515.1419.05
Lightning protection		
Extended lightning protection	R&S®ADD-LP	4069.6010.02
Power supply		
Power supply	R&S®IN061	4041.9508.02
Tripods		
Tripod with adapter, color: bronze green	R&S®ADD1XTP	4063.4409.02
Tripod with adapter, color: aluminum	R&S®ADD1XTP	4063.4409.03

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 trailblazers 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

www.training.rohde-schwarz.com

Rohde & Schwarz customer support

www.rohde-schwarz.com/support

