

R&S® ADD196 VHF/UHF DF ANTENNA



Product Brochure
Version 01.00

ROHDE & SCHWARZ

Make ideas real





AT A GLANCE

R&S®ADDx advanced single-channel 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.

R&S®ADD196 VHF/UHF DF antennas are optimized for radiolocation from fixed, mobile and transportable spectrum monitoring stations and COMINT/CESM platforms. They are designed for operation with Rohde & Schwarz single-channel direction finders and feature integrated lightning protection that does not affect performance. The optional R&S®ADD-LP extended lightning protection cross is available.

The R&S®ADD196 has active antenna elements that can be switched to passive operation with a mouse click.

The R&S®ADD196 performance is in line with all relevant ITU recommendations and the ITU Handbook on Spectrum Monitoring.

The R&S®ADD196 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®ADD196 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 45 m.

KEY FACTS

- ▶ Frequency range from 20 MHz to 1.3 GHz
- ▶ Superior system DF accuracy
- ▶ Antenna elements with active/passive switch
- ▶ 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 1.3 GHz
Polarization		vertical
System DF accuracy	with installed lightning protection, in line with Recommendation ITU-R SM.2060	
	20 MHz to 80 MHz	1° RMS (typ.)
	80 MHz to 1.3 GHz	0.5° RMS (typ.)
Antenna element design	in line with ITU Handbook on Spectrum Monitoring, edition 2010, chapter 3.2.4.1	active antenna element with active/passive switch
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. 31 kg (68.34 lb)

ORDERING INFORMATION

Description	Type	Order No.
Antenna		
VHF/UHF DF antenna, color: light ivory	R&S®ADD196	4077.3000.12
VHF/UHF DF antenna, color: yellow olive	R&S®ADD196	4077.3000.13
VHF/UHF DF antenna, color: squirrel grey	R&S®ADD196	4077.3000.14
VHF/UHF DF antenna, color: bronze green	R&S®ADD196	4077.3000.15
VHF/UHF DF antenna, color: traffic red	R&S®ADD196	4077.3000.18
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 options		
Extended warranty, one year	R&S®WE1	
Extended warranty, two years	R&S®WE2	Contact your local Rohde & Schwarz sales office for more information.
Extended warranty, three years	R&S®WE3	
Extended warranty, four years	R&S®WE4	

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

