

R&S® ADD197 DUAL-POLARIZED 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.

The R&S®ADD197 dual-polarized VHF/UHF DF antenna is optimized for radiolocation from fixed, mobile and transportable spectrum monitoring stations and COMINT/CESM platforms. It covers horizontal and vertical polarization (switchable) and is designed for operation with Rohde & Schwarz single-channel direction finders. The antenna features integrated lightning protection that does not affect performance. The optional R&S®ADD-LP extended lightning protection cross is available.

The R&S®ADD197 has active antenna elements that can be switched to passive operation with a mouse click.

The R&S®ADD197 performance is in line with all relevant ITU recommendations and the ITU Handbook on Spectrum Monitoring.

The R&S®ADD197 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®ADD197 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 (vertical polarization) and 40 MHz to 1.3 GHz (horizontal polarization)
- ▶ 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 | vertical polarization | 20 MHz to 1.3 GHz |
| | horizontal polarization | 40 MHz to 1.3 GHz |
| Polarization | | vertical and horizontal (switchable) |
| 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 x H, without lightning rod | approx. 1.1 m x 0.4 m (3.61 ft x 1.31 ft) |
| Weight | without ice deposit, with lightning protection rod | approx. 30 kg (66.14 lb) |

ORDERING INFORMATION

| Description | Type | Order No. |
|---|-------------|--------------|
| Antenna | | |
| Dual-polarized VHF/UHF DF antenna, color: light ivory | R&S®ADD197 | 4068.1450.12 |
| Dual-polarized VHF/UHF DF antenna, color: yellow olive | R&S®ADD197 | 4068.1450.13 |
| Dual-polarized VHF/UHF DF antenna, color: squirrel grey | R&S®ADD197 | 4068.1450.14 |
| Dual-polarized VHF/UHF DF antenna, color: bronze green | R&S®ADD197 | 4068.1450.15 |
| 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 options

| | | |
|--------------------------------|---------|---|
| Extended warranty, one year | R&S®WE1 | Contact your local Rohde & Schwarz sales office for more information. |
| Extended warranty, two years | R&S®WE2 | |
| 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

