

R&S®EVSG1-B4

Antenna Mounting Option

Installation Instructions



1179720402
Version 01

ROHDE & SCHWARZ
Make ideas real



This document describes the R&S®EVSG1-B4 antenna mounting option (1330.2000.02) provided for R&S®EVSG1000 (1329.8009.02).

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1179.7204.02 | Version 01 | R&S®EVSG1-B4

Throughout this document, products from Rohde & Schwarz are indicated without the ® symbol, e.g. R&S®EVSG1000 is indicated as R&S EVSG1000.

1 About the R&S®EVSG-B4

The R&S EVSG1-B4 Antenna Mounting option is an alternative housing for the R&S EVSG1000 that includes two premounted adapters:

- An antenna adapter on the top panel of the instrument, designed for use with the ILS/VOR dipole antenna R&S®EVS-Z3, also provided with the option.
- A tripod adapter on the bottom panel of the instrument. The tripod is not included with the option.

The housing with the adapters can only be mounted at the Rohde & Schwarz factory.

Intended use

The R&S EVSG1000 VHF/UHF Airnav/Com Analyzer is intended for mobile use. Once the instrument is at its designated measurement location, the R&S EVSG1-B4 Antenna Mounting option allows you to fix an ILS/VOR dipole antenna to a mast mounted on the instrument, or directly to the instrument itself. You can mount the R&S EVSG1000 on an optional tripod using the adapter on the bottom of the instrument.

Do not transport the R&S EVSG1000 while mounted to the tripod or while the antenna is mounted. The R&S EVSG1000 or antenna could fall off and cause damage.

Safety information in the documentation

Safety information warns you of potential dangers and gives instructions on how to prevent personal injury or damage caused by dangerous situations. Throughout the documentation, safety instructions are provided when you need to take care during setup or operation.

The documentation helps you use the R&S EVSG1000 safely and efficiently. Keep the documentation nearby and offer it to other users.

Related manuals

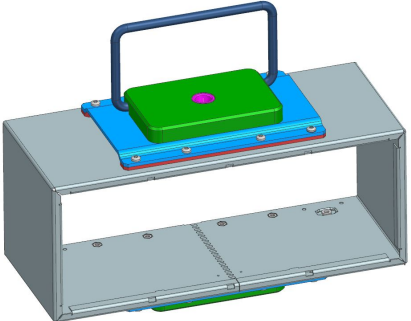
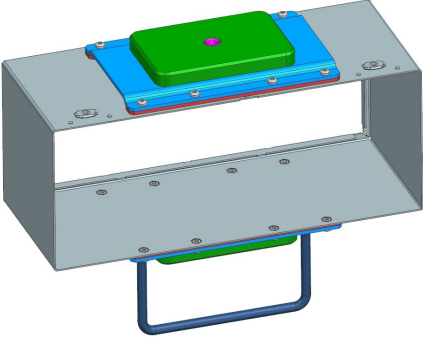
This manual describes the installation of the R&S EVSG1-B4 Antenna Mounting option. For information on all other topics, refer to:

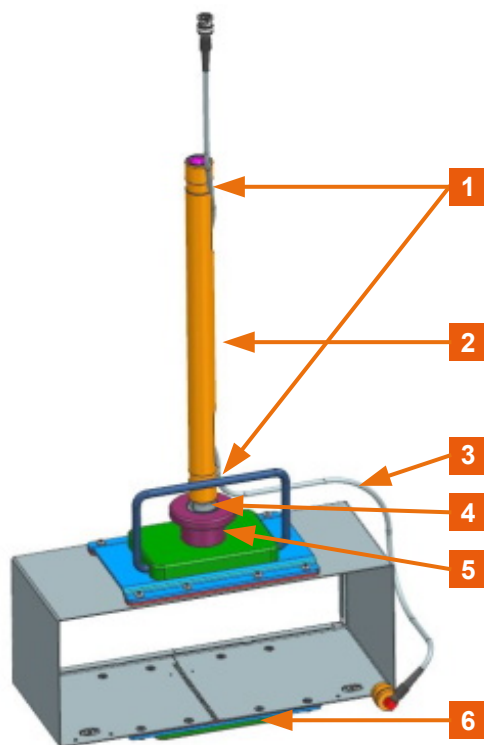
- R&S EVSG1000 user manual
- R&S®EVS-Z3 VOR/ILS Antenna for R&S®EVS300 manual

2 Checking out the R&S EVSG1-B4 Antenna Mounting option

The R&S EVSG1-B4 Antenna Mounting option consists of a housing with factory-mounted adapters.

Table 2-1: Factory-mounted adapters for the R&S EVSG1000

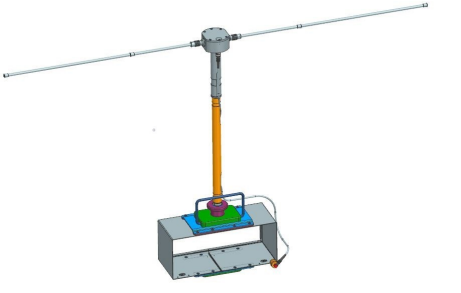
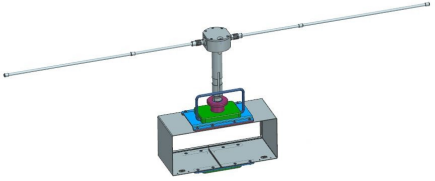
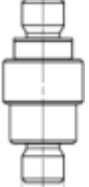
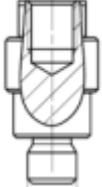
Antenna adapter (top, BSW 5/8" thread)	Tripod adapter (bottom, UNC 3/8" thread)
	

Overview of the R&S EVSG1-B4 Antenna Mounting option**Figure 2-1: Antenna mounting option components**

- 1 = Velcro strips to fasten cable to mast
- 2 = Metal mast
- 3 = RF cable, routed through antenna mast
- 4 = Mast adapter bolt (or antenna adapter bolt)
- 5 = Knurled nut
- 6 = Tripod adapter

You can mount the ILS/VOR dipole antenna to the R&S EVSG1000 directly, or insert the metal mast. The R&S EVSG1-B4 Antenna Mounting option provides different adapter bolts for both mounting options.

Table 2-2: Mounting options for the antenna on the R&S EVSG1000 with the B4 option

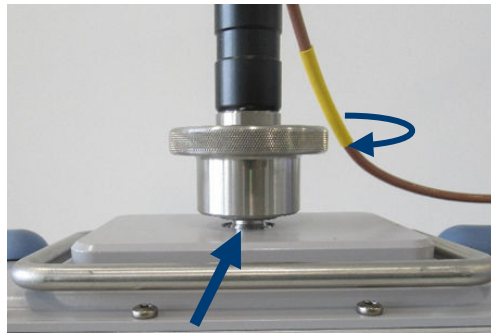
Antenna mounted to a mast	Antenna mounted directly to the instrument
	
Mast adapter bolt (male-male BSW 5/8" thread)	Antenna adapter bolt (female-male BSW 5/8" thread)
	

3 Mounting instructions

To mount the antenna to the R&S EVSG1000 on the mast

Prerequisite: the R&S EVSG1000 is at the designated measurement location.

1. Screw the knurled nut on the mast adapter bolt (loosely).
2. Screw the mast adapter bolt in the adapter on the top panel of the R&S EVSG1000.
3. Screw the metal mast with the cable routed through it in the mast adapter bolt.
The bolt is now fastened to the instrument securely, while the mast is still adjustable.



4. Screw the antenna head without the dipole rods in the open end of the metal mast.
 5. Insert the dipole rods in the antenna head:
 - For 330 MHz range: short rods
 - For 110 MHz range: long rods
 6. Adjust the antenna and the mast to the correct position.
 7. Tighten the knurled nut.
- The antenna mast is now secured in the correct position.
8. Connect the RF cable from the antenna to the other end of the RF cable routed through the metal mast.
 9. Connect the RF cable routed through the metal mast to the RF input connector of the R&S EVSG1000.

The R&S EVSG1000 is ready for stationary measurement.

Do not transport the R&S EVSG1000 while the antenna is mounted. The antenna could fall off and cause damage.

To mount the antenna to the R&S EVSG1000 directly

Prerequisite: the R&S EVSG1000 is at the designated measurement location.

1. Screw the knurled nut on the antenna adapter bolt (loosely).
2. Screw the antenna adapter bolt in the adapter on the top panel of the R&S EVSG1000.
3. Screw the antenna head without the dipole rods in the antenna adapter bolt.
4. Insert the dipole rods in the antenna head:
 - For 330 MHz range: short rods
 - For 110 MHz range: long rods

The bolt is now fastened to the instrument securely, while the antenna is still adjustable.
5. Adjust the antenna to the correct position.
6. Tighten the knurled nut.

The antenna is now secured in the correct position.

7. Connect the RF cable from the antenna to the RF input connector of the R&S EVSG1000.

The R&S EVSG1000 is ready for stationary measurement.

Do not transport the R&S EVSG1000 while the antenna is mounted. The antenna could fall off and cause damage.

To dismantle the antenna

Before transporting the R&S EVSG1000, dismantle the antenna.

1. Disconnect the RF cable from the R&S EVSG1000.
2. Unscrew the adapter bolt with the metal mast or the antenna from the top panel of the R&S EVSG1000.

The R&S EVSG1000 is ready for transportation.

To transport the antenna, remove the antenna rods so it fits in the carrying bag, if available.

To switch mounting options

1. Disconnect the RF cable from the R&S EVSG1000.
2. Unscrew the adapter bolt with the metal mast or the antenna from the top panel of the R&S EVSG1000.
3. Loosen the knurled nut.
4. Unscrew the metal mast or the antenna from the adapter bolt.
5. Remove the knurled nut from the adapter bolt.
6. Continue as described in ["To mount the antenna to the R&S EVSG1000 on the mast"](#) on page 5 and ["To mount the antenna to the R&S EVSG1000 directly"](#) on page 6.

To mount a tripod to the R&S EVSG1000

Prerequisite: the R&S EVSG1000 is at the designated measurement location.

- ▶ Connect a tripod with a UNC 3/8" thread to the adapter on the bottom panel of the R&S EVSG1000.

Do not transport the R&S EVSG1000 while mounted to the tripod. The R&S EVSG1000 could fall off and cause damage.

4 Disposal

Rohde & Schwarz is committed to making careful, ecologically sound use of natural resources and minimizing the environmental footprint of our products. Help us by disposing of waste in a way that causes minimum environmental impact.

Dispose of the metal components and the RF cable separately, according to applicable waste disposal regulations.

Rohde & Schwarz has developed a disposal concept for the eco-friendly disposal or recycling of waste material. As a manufacturer, Rohde & Schwarz completely fulfills its obligation to take back and dispose of electrical and electronic waste. Contact your local service representative to dispose of the product.

5 Contacting customer support

Technical support – where and when you need it

For quick, expert help with any Rohde & Schwarz product, contact our customer support center. A team of highly qualified engineers provides support and works with you to find a solution to your query on any aspect of the operation, programming or applications of Rohde & Schwarz products.

Contact information

Contact our customer support center at www.rohde-schwarz.com/support, or follow this QR code:



Figure 5-1: QR code to the Rohde & Schwarz support page