

# R&S®HE309E

## Active Vertical Dipole

20 MHz to 1.3 GHz

High sensitivity, large bandwidth and wide dynamic range

**New**



The R&S®HE309E active vertical dipole is designed to receive vertically polarized signals in the frequency range from 20 MHz to 1.3 GHz.

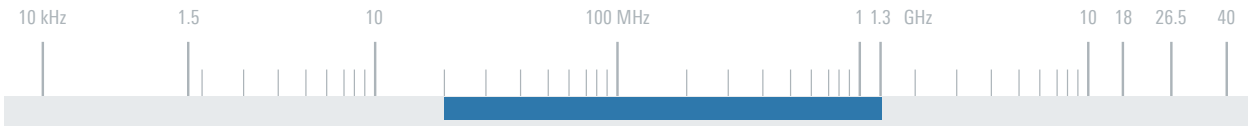
The lightweight and compact antenna is accommodated in a weatherproof and rugged glassfiber-reinforced plastic (GRP) radome that fully protects the receiving dipole against the effects of weathering.

Characterized by its small dimensions, it is ideal for use in mobile systems and provides optimum reception results even if space is limited.

A large bandwidth, wide dynamic range and excellent field strength sensitivity make the R&S®HE309E suitable for all receiving tasks that might occur in the field of communications, radiomonitoring and radiolocation.

### Key facts

- Extremely wide frequency range
- High sensitivity (low inherent noise)
- High linearity and spurious-free dynamic range
- Compact dimensions
- Rugged and weatherproof design
- No deterioration of the radiation pattern due to divided dipole design



| Specifications                    |                                   |
|-----------------------------------|-----------------------------------|
| Frequency range                   | 20 MHz to 1.3 GHz                 |
| Polarization                      | linear vertical                   |
| Input impedance                   | 50 Ω                              |
| VSWR                              | < 3.0; typ. 2.5                   |
| Circularity of horizontal pattern | typ. 3 dB                         |
| IP2                               | typ. 60 dBm                       |
| IP3                               | typ. 30 dBm                       |
| Power supply                      | 24 V DC (-3 V/+1 V) (max. 350 mA) |
| RF connector                      | N female                          |

|                             |                                        |
|-----------------------------|----------------------------------------|
| MTBF                        | > 250 000 h                            |
| Operating temperature range | -40°C to +70°C                         |
| Storage temperature range   | -40°C to +85°C                         |
| Protection class            | IPx5, in line with EN60259             |
| Max. wind speed             |                                        |
| Without ice deposit         | 200 km/h                               |
| With 30 mm ice deposit      | 180 km/h                               |
| Dimensions (Ø × L)          | approx. 1.21 m × 0.16 m (48 in × 5 in) |
| Weight                      | approx. 3 kg (7 lb)                    |

| Ordering information            | Type                  | Order No.    |
|---------------------------------|-----------------------|--------------|
| <b>Active Vertical Dipole</b>   | <b>R&amp;S®HE309E</b> |              |
| Color: squirrel gray (RAL 7000) |                       | 4098.0000.02 |
| Color: bronze green (RAL 6031)  |                       | 4098.0000.03 |
| Color: light ivory (RAL 1015)   |                       | 4098.0000.04 |
| <b>Recommended extras</b>       |                       |              |
| Bias Unit and Power Supply      | R&S®IN600             | 4094.3004.xx |

