Active Rod Antenna R&S® HE010; Power Supply Unit R&S® IN 115

Brief description

Active rod antenna
The excellent characteristics of active receiving antennas are a result of carefully matching the passive antenna structure to the active circuitry.

◆ Wide frequency range
◆ Optimized for maximum dynamic range (high sensitivity, excellent large-signal characteristics)
◆ Small in size
◆ For use under extreme conditions (R&S HE010)
◆ High immunity to nearby lightning strikes
◆ Length of radiator adjustable (R&S HE011)

Power Supply Unit R&S IN 110, R&S IN 115
The Power Supply Units R&S IN 110 and R&S IN 115 power active receiving antennas via the inner conductor of the RF cable.

◆ AC supply or battery operation
◆ Short-circuit-proof
◆ Three DC-feed sections for up to three active antennas (R&S IN 115)

Power Supply Unit R&S IN 115 (photo 43887-1)
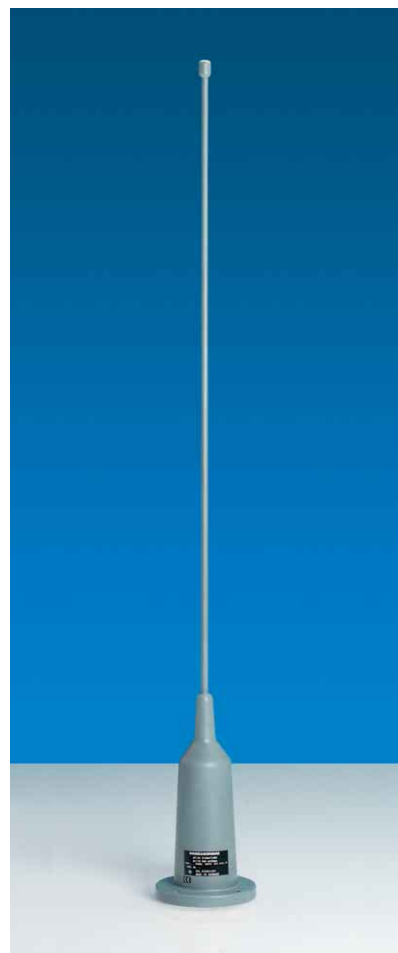

Photo 43901

Specifications

Frequency range	10 kHz to 80 (120) MHz
Impedance	50 Ω
VSWR 50 kHz to 120 MHz	<2
VSWR 10 kHz to 50 kHz	<3
Antenna factor	17 dB
Intercept point	
2nd order	≥50 dBm (60 dBm typ.)
3rd order	≥30 dBm
Crossmodulation	12 V/m up to 30 MHz, 6 V/m from 30 MHz to 80 MHz
Power supply	21 V to 26 V DC (Power Supply Unit R&S IN 110 or R&S IN 115 recommended)
Current drain	170 mA
Connector	N female
Permissible wind speed	188 km/h
Operating temp. range	−40°C to +65°C
Max. length with radiator	1000 mm
Max. diameter	120 mm
Weight	0.9 kg

Power Supply Unit

DC supply	24 V DC +35/−20%
AC supply	115/125/220/235 V AC ±10%, 50 VA max.
Output voltage	
with AC operation	3 × 24 V ±5%
with battery operation	3 × 18 V ±5%
Max. load current	500 mA/output
Short-circuit current	200 mA
RF frequency range	10 kHz to 1.3 GHz
Connectors	N female
Operating temp. range	−25°C to +55°C
Dimensions in mm	
W × H × D	170 × 125 × 350
Weight	5.5 kg

Ordering information

Active Rod Antenna	R&S HE010	0523.1414.13
Recommended extra		
Power Supply Unit	R&S IN 115	4004.1707.02