

Active Receiving Antenna URA 30 - 500

This active monopole antenna is used as receiving antenna with omnidirectional characteristic.

It covers the frequency range from 30 - 500 MHz.

Due to its small dimension and the very low radiation coupling, this active antenna is particularly qualified for mobile as well as stationary application under unfavorable localities

An amplifier circuit directly connected to the base point of the antenna rod matches the high impedance of the rod to the low input impedance of the receiver or the connected coaxial cable.

Our active receiving antennas are fitted with amplifiers providing a high RF dynamic range in order to avoid degradation of the reception system characteristics. An additional filter will be switched automatically if the field strength of unwanted signals exceeds a preset limit value.

A multistage protection circuit at the input of the active element ensures that the antenna electronics will not be damaged even in case of lightning strikes in close proximity.

With regard to the robust construction and the use of weatherproof materials our active antennas can be used under extreme environmental conditions.



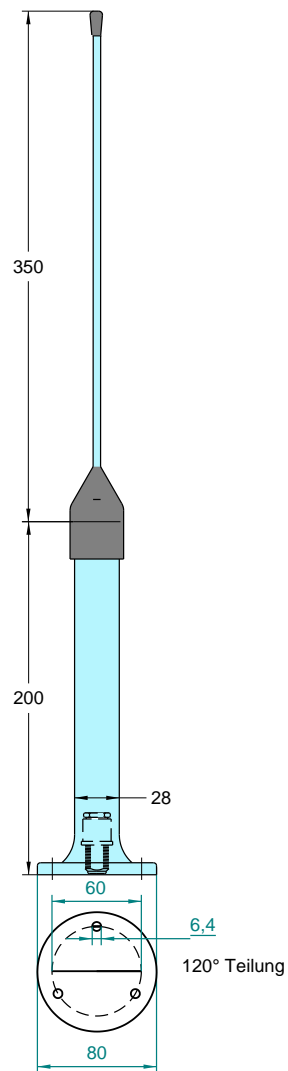
Technical Data

Parameter	Data
Application	Active monopole antenna
Characteristic	Vertically polarized omnidirectional antenna
Colour	RAL 9005 (black)
Ambient temperature	-40°C...+70°C
Storage temperature	-55°C...+80°C
Relative humidity	100 %
RF connector	N Socket
Output impedance	50 Ω VSWR ≤ 1,5
Power Supply	8 Vdc, max. 200 mA through coaxial cable
Frequency range	30 - 500 MHz
Attenuation in stop band	15 MHz > 23 dB 10 MHz > 55 dB 5 MHz > 100 dB
Additional attenuation in stop band (1)	> 36 dB
Equivalent noise field strength (limit of sensitivity B=1 Hz)	typ. 2 nV/m
Effective height at load impedance	typ. 1,5 m
IPOP2	≥ 37 dBm
IPOP3	≥ 28 dBm
1dB reduction of gain	≥ 12 dBm

(1) An additional filter will automatically be switched on if the field strength of unwanted signals exceed a preset limit value.

Design and specification are subject to change without prior notice, errors excepted.
 Data given without tolerance are typical values.

Dimensions and Weight



approx. 0,4 kg

Accessories

Type designation	Application	Details
AAN 50	power supply unit 115/230 Vac and 12 - 26 Vdc for use with URA 30-500	Doc. 1_6_9