

## Product Information

### Active Receiving Antenna URA 30 - 500

This antenna is an active monopole receiving antenna providing omnidirectional characteristics.

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.

The aas.tech active receiving antennas are fitted with amplifiers providing a high RF dynamic range 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 proximity.

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

The nominal operating voltage for the antenna is 8 Vdc. An AAN remote power supply is used to feed the operating voltage to the active element via the coaxial cable.



## Technical Data

Parameter	Data
Application	Active monopole antenna
Characteristic	Vertically polarized omnidirectional antenna
Color	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 exceeds a preset limit value.

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

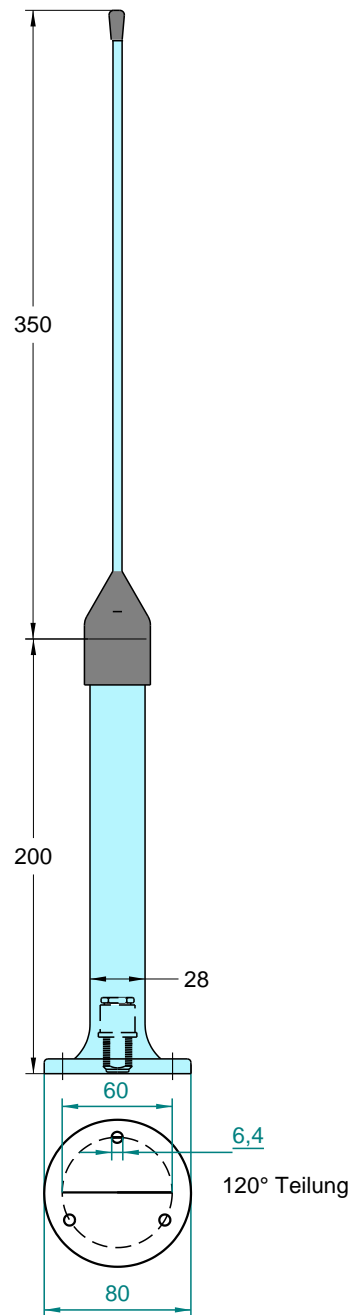
## Scope of Supply

Pos.	Description
1	Active Receiving Rod Antenna URA 30-500
2	Accessory Set ZS 91
3	USB stick with product documentation in pdf format

## Accessories

Type Designation	Part No.	Description
ZS 91	0028.3791.00	Accessory set consisting of <ul style="list-style-type: none"> <li>- 1 ea. N male plug Part No. ST.0015</li> <li>- 1 ea. Flat gasket 14 Part No. 0005.9001.01</li> <li>- 3 ea. Hexagon nut M6 Part No. S2.0134</li> <li>- 6 ea. Plain washer 6.4 mm Part No. S1.0044</li> <li>- 3 ea. Hexagon head screw M6x25 Part No. S2.0010</li> </ul>

**Dimensions and Weight**



Weight approx. 0,4 kg

## Variants and Order Information

Type Designation	Part No.	Description
URA 30-500	0005.9001.00	standard variant, RAL 9005

## Options

Option	Part No.	Description
RAL Color Code	depends on RAL color code	Painting in RAL color according to customer specification

Other customer specific options are available on request.

## Associated Products

For integration into the application environment associated products are available.

Type Designation	Part No.	Description
AAN 151	2061.0151.00	<p>19-inch 1 HU Remote Power Supply Unit Frequency range 30 – 500 MHz</p> <p>The AAN 151 provides 1 remote power feeding port and 1 receiver port, for use with 1 active monopole antenna URA 30-500</p> <p>AAN 151 replaces AAN 50 (0008.7484.00) Concerning 19-inch rack installation the AAN 151 requires 1 HU rack space instead of 3 HU required by AAN 50.</p> <p>Doc. PIG 010625</p>
AAN 152	2061.0152.00	<p>19-inch 1 HU Remote Power Supply Unit Frequency range 30 – 500 MHz</p> <p>The AAN 152 provides 2 remote power feeding ports and 2 receiver ports, for use with 2 active monopole antenna URA 30-500</p> <p>Doc. PIG 010625</p>
AAN 153	2061.0153.00	<p>19-inch 1 HU Remote Power Supply Unit Frequency range 30 – 500 MHz</p> <p>The AAN 153 provides 3 remote power feeding ports and 3 receiver ports, for use with 3 active monopole antenna URA 30-500</p> <p>Doc. PIG 010625</p>
AAN 154	2061.0154.00	<p>19-inch 1 HU Remote Power Supply Unit Frequency range 30 – 500 MHz</p> <p>The AAN 154 provides 4 remote power feeding ports and 4 receiver ports, for use with 4 active monopole antenna URA 30-500</p> <p>Doc. PIG 010625</p>
RF Coaxial Cable	2078.xxxx.00 ---	<p>Assembled ready-made coaxial cable according to customer specification. Type of connectors and type of cable to be specified by customer.</p>