

# Active Omnidirectional Antenna HE 314A1



## Brief description

The Active Omnidirectional Antenna HE314A1 is a turnstile antenna consisting of two active dipoles HE302 which are connected via a 90° hybrid coupler. It is used for the reception of horizontally polarized signals. Its horizontal radiation pattern is omnidirectional.

The antenna HE314A1 can be extended for omnidirectional reception of vertically polarized waves using the Active Vertical Dipole Antenna HE309 mounted on top.

- Small dimensions
- Ideally for mobile or semi-mobile receiving systems
- High sensitivity
- Wide frequency range

## Specifications

Frequency range	20 to 500 MHz
Polarization	horizontal
Nominal impedance	50 $\Omega$
VSWR	<2.5
Electronic gain	-15 to +8 dB
Practical gain	-14 to +5 dBi
Directivity	1 dB average
Antenna factor	2 to 20 dB
Noise figure	
20 MHz	<29 dB
500 MHz	<10 dB
Field sensitivity ( $\Delta F = 1$ kHz)	
20 MHz	-12 dB( $\mu V/m$ )
500 MHz	-3 dB( $\mu V/m$ )
Intercept point	
2nd order	>60 dBm
3rd order	>30 dBm
Power supply	via RF cable; 18 to 30 V DC (340 mA)
Connector	N female
Max. wind speed	180 km/h
Operating temperature	-40° to +70°C
Dimensions (L x W x H)	1 m x 1 m x 327 mm
Weight	8 kg

## Recommended extras

Power Supply Unit	IN115
Mast Adapter	HE202Z1
RF Cable	HE202Z2
Active Vertical Dipole	HE309