


ANT S.r.l. Via della Concordia, 4 – 37036 S. Martino B/A (VR) - Italia Tel. +39 045 8781380 Fax +39 045 8795335 e-mail: commerciale@antsrl.eu www.antsrl.eu	DESCRIPTION	
	1090MHz colinear antenna suitable for applications ADS-B	

Ora-5-1090 MHz (N-F connection)
Ora-5-1090 MHz (N-F connection +bracket)

P/N: M13-000
P/N: M13-001

ELECTRICAL DATA

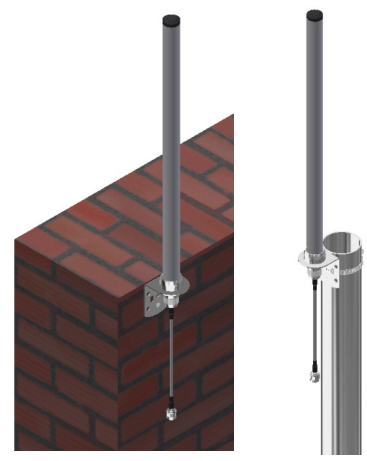
Frequency range (V.S.W.R. < 2 : 1)	1090MHz
Impedance:	50 Ω
V.S.W.R.:	< 2.0 : 1
Max power:	10 W
Polarisation:	Linear
Radiation:	Omnidirectional
Gain 1090MHz:	5 dBi
Beamwidth (-3dB E-plane)	see patterns
Beamwidth (-3dB H-plane)	see patterns

MECHANICAL DATA

Dimensions (approx):	Ø25x450 mm (Base Ø33mm)
Connection:	N socket
Cable:	on request
Operating temperature range:	-30° / +80°C
Weight: (approx):	0.3 kg
Radiating element material:	Copper
Radome material:	Fiberglass Ø25 mm
Mounting surface thickness for version with N socket connector:	up to 3.5 mm
Optional accessories:	Supports for mounting on wall / pole



TYPICAL INSTALLATION MODES



Protection against oxydation: The antenna is designed to withstand the worst climatic conditions and so that the oxydation of its parts is prevented, with its components being made of raw materials resistant to external environmental agents.
Protection against accidental hits: The antenna is designed so that persons are protected from accidental hits against its projecting parts.
RoHS Directive: The antenna complies with the RoHS Directive and its subsequent.

MOUNTING INSTRUCTIONS:

N-socket connection
Please mount the antenna on bracket or support with a Ø16mm hole and max thickness of 3.5mm. The antenna is provided of sealing gasket for IP67 protection.

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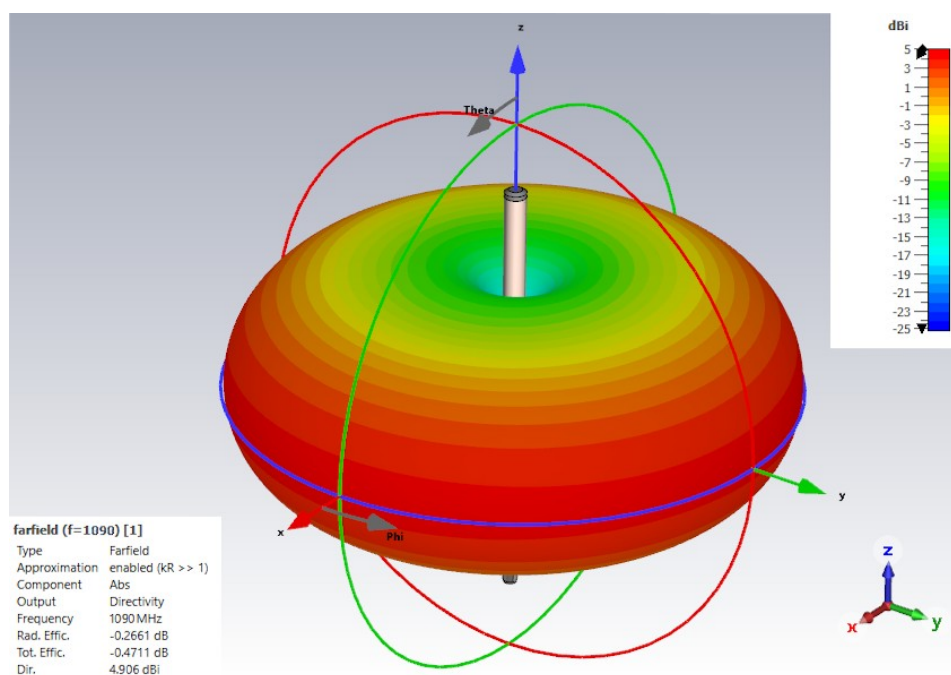
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suitable for applications
ADS-B



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3D radiation simulation

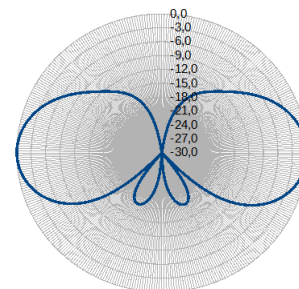
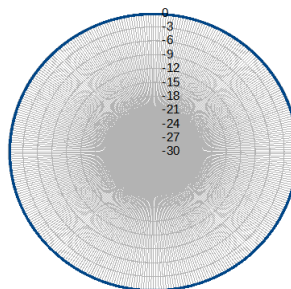
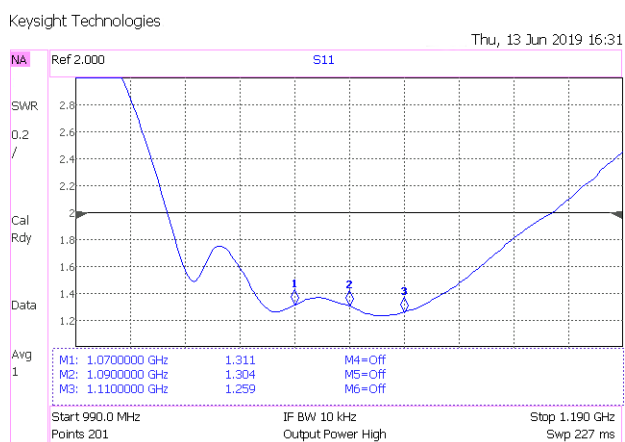


Radiating pattern

VSWR
(1090 MHz)


H-Plane

E-Plane



L'azienda produttrice si riserva di apportare modifiche e miglioramenti in qualsiasi momento senza obbligo di preavviso
The manufacturer reserves the right to change or improve this documentation at all times and without notice.

ENG-Rev. 0

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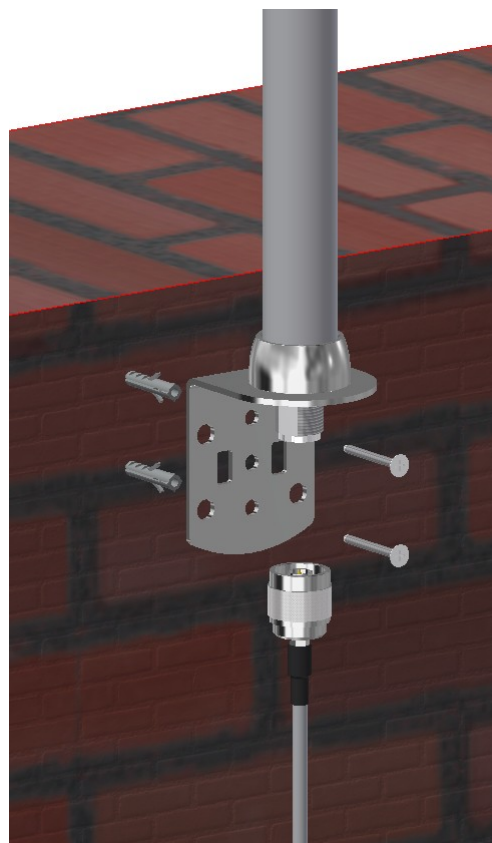
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MOUNTING ON POLE Ø30-200mm

MOUNTING ON WALL



ITS NAME:

*The **ORA** wind originates in the Po valley and blows over the Garda Lake. It is a permanent wind typically blowing in the afternoon through sunset, especially on the Upper Lake in the summertime, when it blows more strongly. The Lower Lake is mostly immune, with the exception of a few summer early mornings, when it brings clouds and is an omen of weather worsening.*

Its speed does not exceed 8 m/s, except for in its ending segment between Malcesine and Riva, where the Ora slowly gains speed and reaches up to 15 m/s.