


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	
	169 MHz ½ wave antenna suitable for applications wireless M-Bus (wM-Bus)	

Harmattan 169

P/N: H03-000

ELECTRICAL DATA

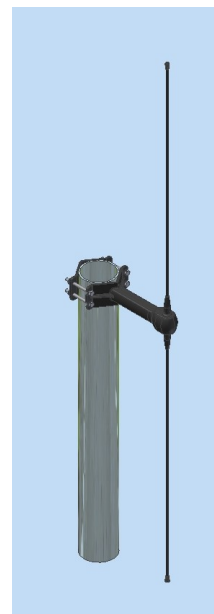
Frequency range (V.S.W.R. < 2 : 1)	162 / 174 MHz (other frequencies on request)
Impedance:	50 Ω
V.S.W.R. at 169MHz:	< 2 : 1
Max power:	15 W
Polarisation:	Linear
Irradiation:	Omnidirectional
Gain at 169 MHz:	2.15 dBi

MECHANICAL DATA

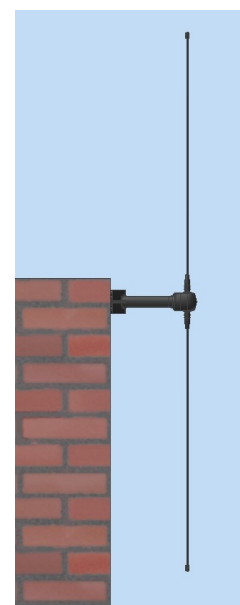
Dimensions (about):	830x150x85 mm
Connection:	SMA plug (other on request)
Cable:	1 m RG58 (other on request)
Operating temperature range:	-35° / +80°C
Weight (about):	0.250 kg
Radiating element material:	Whip of steel and brass, overmoulded and covered with thermoretractable sheath.
Accessories:	Bracket for pole mounting (for poles Ø min. 40mm (1.1/4 inch) to Ø max.60mm (2 inches))



ON POLE



ON WALL



Protection against oxidation: The antenna is designed to be able to withstand the worst climatic conditions and so that the oxidation of its parts is prevented. The components are made of raw materials resistant to external environmental agents.

Protection against accidental hits: The antenna is designed so that people are protected from accidental hits against its projecting parts.

RoHS Directive: The antenna complies with the RoHS Directive and its subsequent.

MOUNTING INSTRUCTIONS

Wall mounting: please use four fischer plugs for wall mounting.

Pole mounting: please use the provided kit. An additional kit including stainless steel support for poles Ø 40 mm (1.1/4 inch) to 200 mm (8 inches) available.

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DESCRIPTION

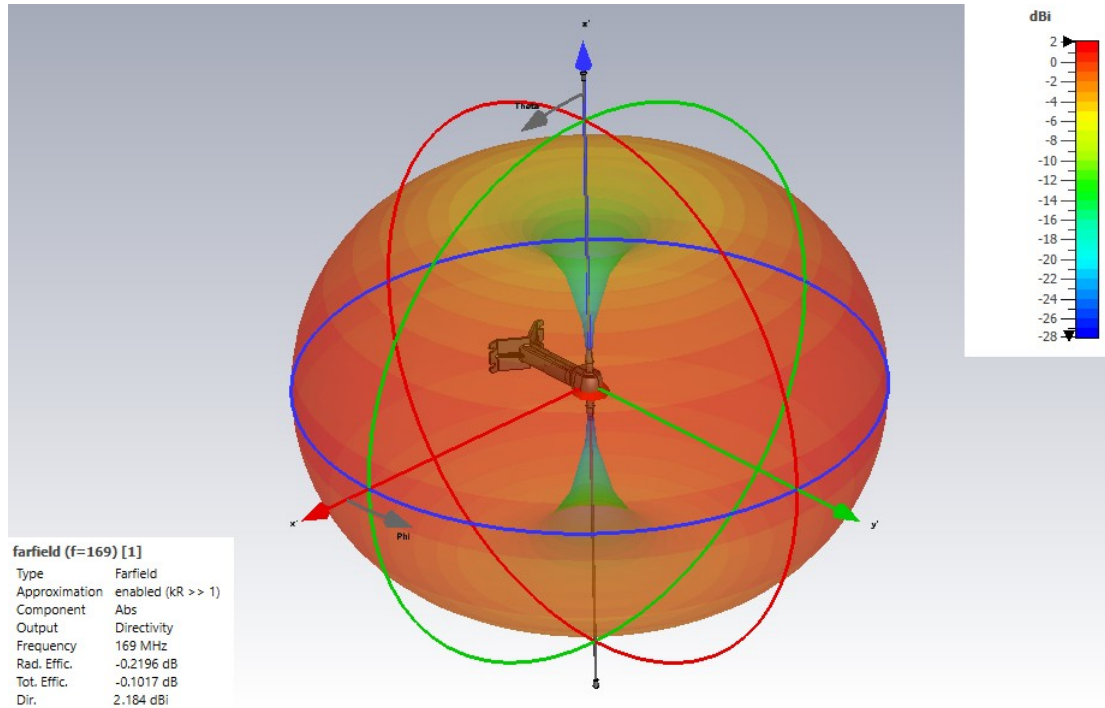
169 MHz $\frac{1}{2}$ wave antenna
suitable for applications
wireless M-Bus (wM-Bus)



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3D radiating simulation



Radiating pattern

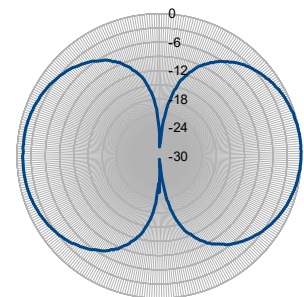
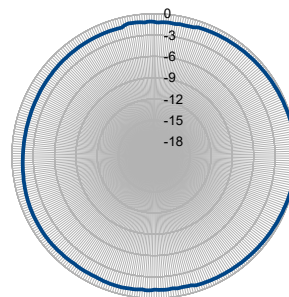
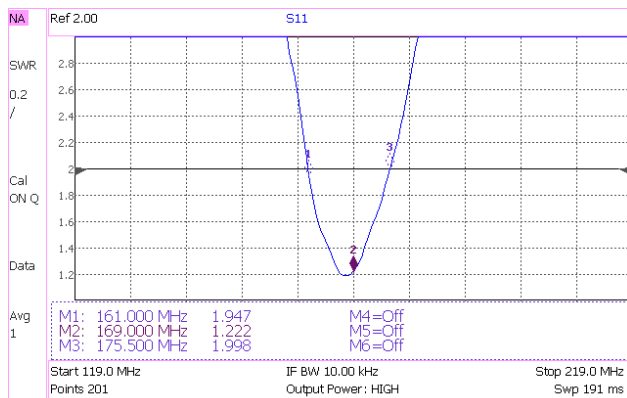
VSWR

H-Plane

E-Plane


Agilent Technologies

Tue, 19 Feb 2013 6:47:36 PM



ANT S.r.l. si riserva di apportare modifiche e miglioramenti in qualsiasi momento senza obbligo di preavviso
ANT S.r.l. reserves the right to change or to improve this documentation at all times and without notice.

ENG-Rev. 3

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ITS NAME

Harmattan is a cool, dry, dusty wind blowing from the Sahara Desert throughout the Gulf of Guinea and the Islands of Cape Verde. It is often referred to as the “Doctor” due to its alleged healthy properties.