### ANT S.r.I.

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Frequenacy range

(V.S.W.R. < 2 : 1)

İmpedance:

Max power: Polarisation:

Radiation:

Gain:

V.S.W.R.:

### DESCRIPTION

#### 169 MHz ground plane antenna Suitable for applications wireless M-Bus (wM-Bus)



## Peler 169

50 Ω

15 W

Linear

2.1 dBi

< 1.5 : 1

162-176 MHz

Omnidirectional

metallic pole)

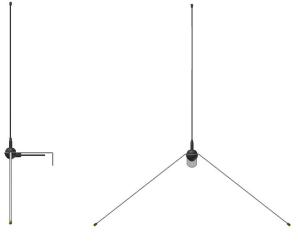
(5 dBi when mounted on

**ELECTRICAL DATA** 

P/N: A30-001

#### **MECHANICAL DATA**

Dimensions (about): Weight (about): Connection: Cable: Operating temperature: Braket/screws material: Radiating element material: Optional accessories: 675x615x80 mm 0.500 kg SMA plug (other on request) RG58 0.9 m (other on request) -35° / +80°C Stainless steel Steel, brass Hardware for pole mounting Ø 38mm (1.5 inchesi) to 200mm (80 inches))



### OPTIONAL KIT FOR POLE MOUNTING



**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 with the plastic parts 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

Please use two Fischer plugs for Ø6 mm holes. The antenna is designed to be mounted on wall or pole.

#### WARNING:

For a correct installation, please mount the antenna so that the rod is in vertical position and at least 10 cm apart from any metallic wall.

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ENG-Rev. 2

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Start 119.0 MHz

Points 201

IF BW 10 kHz

Output Power High

## DESCRIPTION

169 MHz ground plane antenna Omnidirectional antenna with bracket for wall or pole mounting, RG58 cable and SMA plug connection. Designed for data concentrators (point-to-point communications)



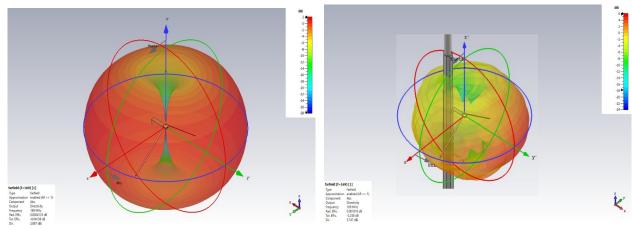
## Peler 169

# P/N: A30-001

# **3D radiation simulation**

(measured with antenna on fiberglass pole)

(measured with antenna at the top of a steel pole)



#### **Radiating pattern** (measured with antenna on fiberglass pole) VSWR H Plane E Plane Agilent Technologies Mon, 02 Sep 2013 11:24:16 AM Ref 2.00 S11 NA -6 -12 SWP -18 0.2 2. -24 -30 2 Cal Rdy Data Avg 1 M1: 160.000 MHz M2: 169.000 MHz M3: 178.000 MHz 1.945 1.050 1.937 M4=Off M5=Off =Off

Stop 219.0 MHz

Swp 235 ms

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