

**SMP-918-9 (Patented)**  
**Indoor-Outdoor Directional Multi-Band Antenna**  
**(GSM 900 & 1800, PCS 1900, DECT, UMTS)**



**Installation Manual**

## DESCRIPTION

Directional multi-band base station antenna for indoor or outdoor use working on 880-960 MHz and 1.7-2.17 GHz conceived for GSM 900 & 1800, PCS 1.9 GHz, DECT and UMTS systems. The radiant element is made on a PCB and it is protected by a thermoplastic UV-stabilized radome to get the best performance for long periods of time. It's supplied with bracket for an easy installation on the mast. (Patent applied for this model)

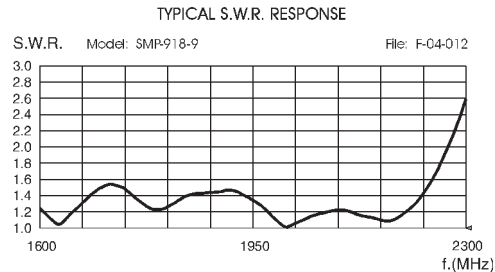
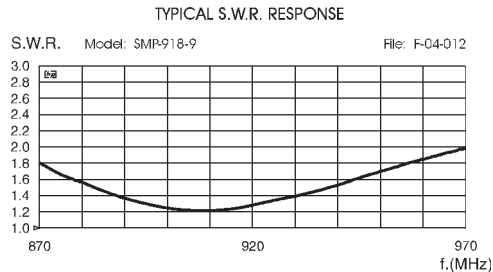
## SPECIFICATIONS

### Electrical Data

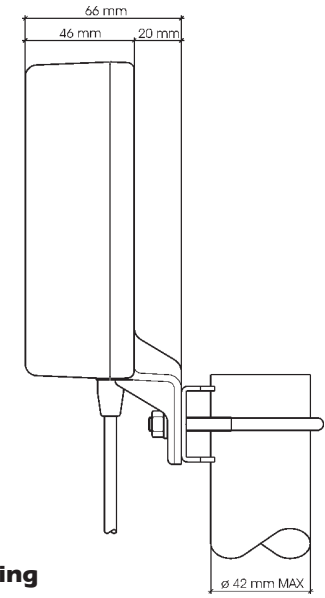
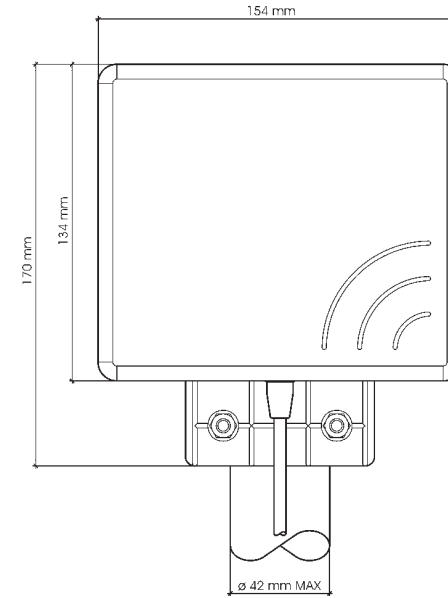
Type & Use	: Mini Panel Antenna for Indoor or Outdoor use
Frequency Range	: 880-960 MHz & 1710-2170 MHz
Impedance	: 50 $\Omega$
Polarization	: Linear Vertical
Gain	: 9 dBi @ both bands
Half Power Beam Width	: see Typical Radiation Pattern
Downtilt	: 0°
Front to back ratio	: $\geq 15$ dB from 880 to 960 MHz and from 1.71 to 2 GHz $\geq 10$ dB from 2 to 2.17 GHz
SWR in Bandwidth	: $\leq 2.0:1$ from 880 to 960 MHz $\leq 1.8:1$ from 1.71 to 2.17 GHz
Max Power	: 20 Watts (CW) @ 50° C
Grounding protection	: All internal metal part are DC-grounded, the inner conductor shows a DC-short
Cable Type / Length	: White Low Loss / 30 cm, other length on request
Connector type	: SMA-male, other type on request

### Mechanical Data

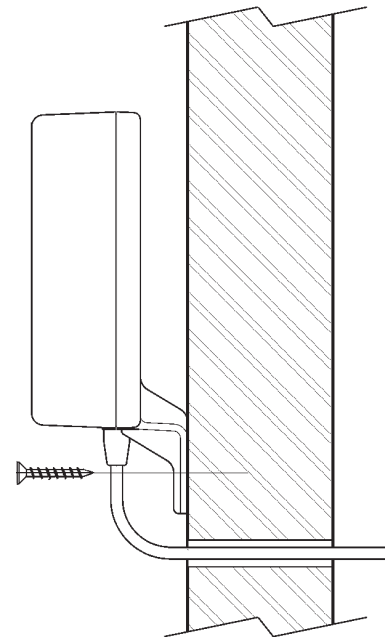
Housing & Radome Material	: RAL 7035 Light Grey thermoplastic UV Stabilized
Bracket & Hardware Material	: Galvanized Steel
Wind Load / Resistance	: 40 N @ 150 Km/h / 180 Km/h
Wind Surface	: 0.02 m <sup>2</sup>
Dimensions (approx.)	: 154 x 134 x 46 mm without bracket
Weight (approx.)	: 400 gr
Operating Temperature	: -20° C to 80° C
Installation Type	: Mast: $\varnothing$ 25-42 mm whit U-bolt Wall: mounting screws (not included)



## MOUNTING INSTRUCTIONS



**Mast mounting**



**Wall mounting**  
(screws not included)



**Optional tilting bracket**  
Mast:  $\varnothing$  35-50 mm with clamp included  
Wall: with mounting screws (not included)