



#### HI-QUALITY ANTENNAS MADE IN ITALY

# SPO 868-915-6

Base Station Antenna ISM LoRa 868 MHz & 915 MHz bands



Installation Manual

## **DESCRIPTION**

Base station antennas conceived for ISM LoRa systems working on 868 MHz & 915 MHz. The radiant colinear dipoles are made of PCB and protected by a strong fiberglass tube. SPO 868-915-6 are aviable in 2 versions: N-f connector (fitted at the bottom) or supplied with 5m Low Loss cable directly connected and SMA-male (other type on request).

# **SPECIFICATIONS**

	SPO 868-915-6	SPO 868-915-6
Electrical Data	N-f connector	cable version
Туре	3 x 1/2 λ Colinear	
Frequency Range @ SWR ≤ 1.5	868 - 915 MHz	
Impedance	50 Ω	
Antenna detection DC resistance	on request	
Radiation (H-plane)	360° omnidirectional	
Radiation (E-plane) Beamwidth @ -3 dB:	23°	
Radiation angle deg.	0°	
Polarization	Linear Vertical	
Gain	3.7 dBd, 5.8 dBi	
Max Power (CW) @ 30° C	20 Watts	
Cable Type / Length	/	White Low Loss cable / 5m, 16.4 ft
Connector	N-female, gold plated central pin	SMA-male, other type on request
Mechanical Data		
Housing & Radome Material	Fiberglass, PCB, Anodized aluminium, Nickel plated brass	
Bracket & Hardware Material	Aluminium, Stainless steel, Zinc plated steel	
Wind Load @ 150 Km/h,93 mi/h	36 N	
Wind Resistance	140 Km/h, 87 mi/h	
Wind Surface	0.028 m <sup>2</sup> ; 0.3 ft <sup>2</sup>	
Height (approx.)	840 mm, 2.75 ft	
Weight (without bracket, approx.)	460 gr, 1.9 lb	560 gr, 2.1 lb





-40 °C to +80 °C

Mast: Ø 35-52 mm, Ø 1.4-2.0 inch with U-bolt

Wall: mounting screws (not included)

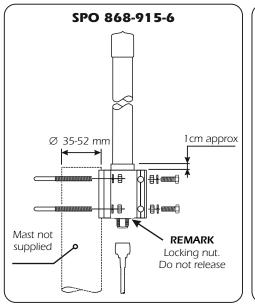


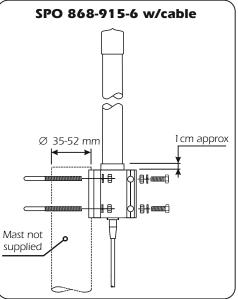
Operating Temperature

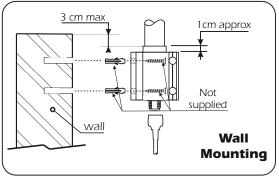
Installation type

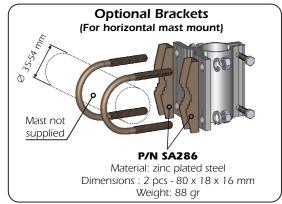
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## **MOUNTING INSTRUCTIONS**

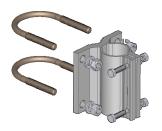








## Standard Mounting Bracket



#### Spare parts: P/N SA285

Materials: extruded aluminum Hardware: stainless & zinc plated steel Dimensions: 80 x 76 x 65 mm Weight: 363 gr

Part list		
O.ty	Description	
1	Extruded aluminium bracket	
2	M8x200 U-bolt	
4	M8 Grower washer	
4	M8 Hexagonal nut	
2	M6x20 Hexagonal head screw	
2	M6 Grower washer	
2	M6 Hexagonal nut	