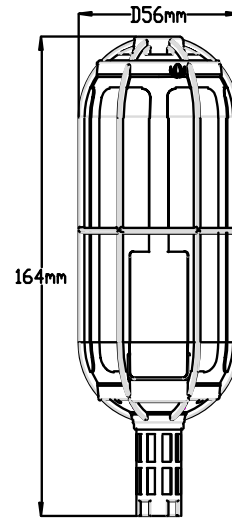




SENSECAP

An Industrial Wireless Sensor Network Solution

LoRaWAN Barometric Pressure Sensor

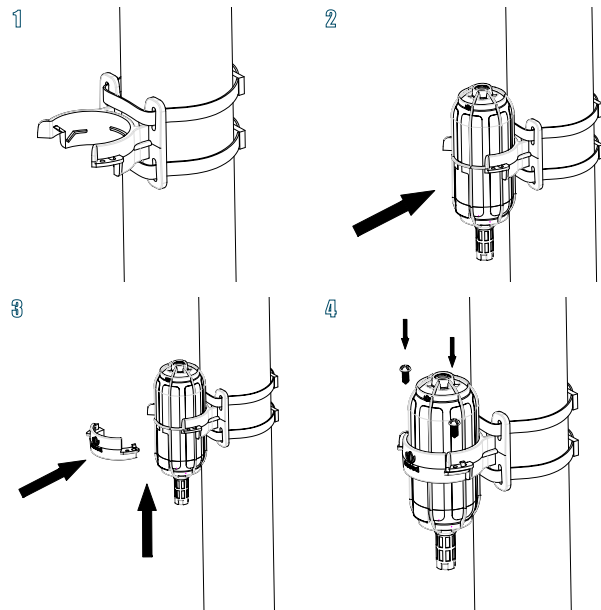


Specifications

Barometric Pressure		
Parameters	Condition	Value
Range	-	300~1100 hPa
Resolution	-	1 Pa
Relative Accuracy	700 to 900 hPa 25 to 40 °C	±0.12 hPa
Absolute Accuracy	300 to 1100 hPa -20 to 0 °C	±1.7 hPa
Absolute Accuracy	300 to 1100 hPa 0 to 65 °C	±1.0 hPa
Temperature Coefficient Offset	900 hPa 25 to 40 °C	1.5 Pa/K
Drift	-	±1.0 hPa/year
General Parameters		
Product Model	LoRa-S-470/868/915-Baro-01	
Microcontroller	Ultra-low-power MCU	
Support Protocol	Based on LoRaWAN v1.0.2 protocol	
LoRa Channel Plan	CN470 / EU868 / US915	
LoRa Power Output	16 dBm (EIRP)	
Sensitivity	470MHz: -140dBm(SF12, BW125KHz) 868MHz: -137.5dBm(SF12, BW125KHz) 915MHz: -136.5dBm(SF12, BW125KHz)	
Current Consumption	5 μA (sleep mode) 120 mA (active mode)	
Communication Distance	2 to 10 km (depending on different antennas and environments)	
Battery Life	≥ 3 year (upload data once per hour)	
Battery Voltage	3.6V	
Battery Capacity	19Ah (Non-rechargeable)	
IP Rating	IP66	
UV Resistance	anti-aging (from rain/sun exposure): UL746C F1	

Installation

Please refer to the user manual for more details.



General Parameters	
Enclosure Material	PC
Operating Temperature	-40 to +85 °C (full accuracy: 0 to 65°C)
Operating Humidity	0 to 100 %RH (non-condensing)
Device Weight	237g

Certification

