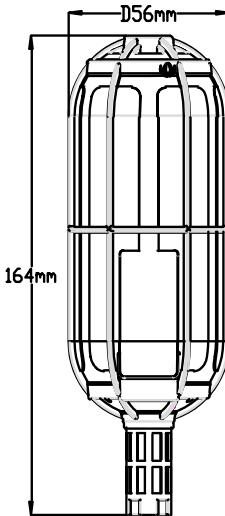




SENSECAP

An Industrial Wireless Sensor Network Solution

LoRaWAN Barometric Pressure Sensor



Specifications

Barometric Pressure

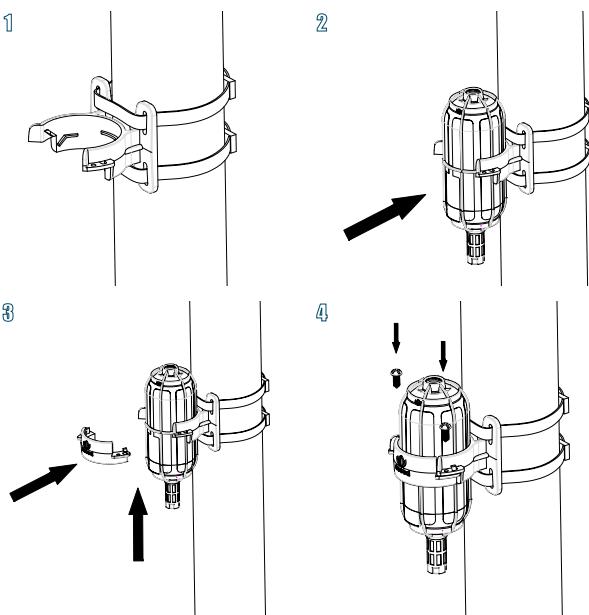
| Parameters | Condition | Value |
|--------------------------------|--------------------------------|---------------|
| Range | - | 300~1100 hPa |
| Resolution | - | 1 Pa |
| Relative Accuracy | 700 to 900 hPa 25 to 40 °C | ±0.12 hPa |
| Absolute Accuracy | 300 to 1100 hPa -20 to 0 °C | ±1.7 hPa |
| 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

