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INDUSTRIAL PRODUCT DATASHEET

SenseCAP Wireless Barometric Pressure Sensor - LoRaWAN EU868MHz

LoRaWAN EU868MHz barometric pressure sensor with 10km range, 8+ year battery, and IP66 outdoor enclosure for versatile wireless sensing.

SKU	UPDATED	PRICE
114991729	2026-04-15 10:31:34	$101.00(Excl. VAT)



Overview

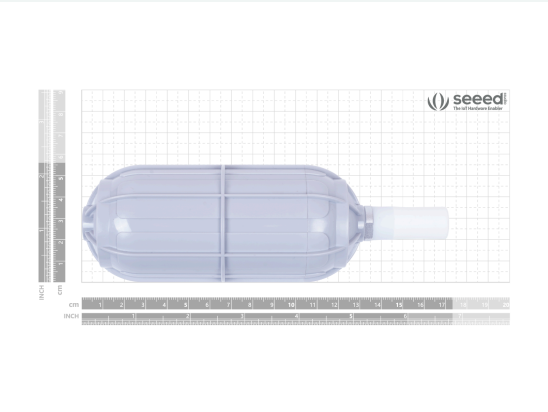


The SenseCAP Wireless Barometric Pressure Sensor supports LoRaWAN Class A protocol with ultra-wide-distance transmission of up to 10km line-of-sight and 2km in urban scenes, featuring high reliability and an IP66 enclosure for outdoor applications. It offers rapid installation and a battery life of ≥8 years, suitable for smart agriculture, smart building and industrial control, environmental monitoring, and other wireless sensing applications.

Key Features

- Support LoRaWAN protocol Class A
- High reliability and stability
- Ultra-wide-distance transmission: 10km in line of sight scene, 2 km in urban scenes
- Battery life ≥ 8 years
- IP66 enclosure, suitable for outdoor applications
- Rapid installation and deployment (see the video below)

Product Gallery



Specification

Barometric Pressure		
Parameters	Condition	Value
Range	-	300~1100 hPa
Resolution	-	1 Pa
Relative Accuracy	700 to 900 hPa 25 to 40 ℃	±0.12 hPa
Absolute Accuracy	300 to 1100 hPa -20 to 0 ℃	±1.7 hPa
Absolute Accuracy	300 to 1100 hPa 0 to 65 ℃	±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-868-Baro-01
Microcontroller	Ultra-low-power MCU
Support Protocol	Based on LoRaWAN v1.0.2 protocol
LoRa Channel Plan	EU868
LoRa Power Output	16 dBm (EIRP)
Sensitivity	-137.5dBm(SF12, BW125KHz)
Current Consumption	5 μA (sleep mode) 120 mA max(active mode)
Communication Distance	2 to 10 km (depending on different antennas and environments)
IP Rating	IP66 (Sensor Node); IP65 (Sensor Probe)
UV Resistance	anti-aging (from rain/sun exposure): UL746C F1
Enclosure Material	PC
Operating Temperature	-40 to +85 ℃ (full accuracy: 0 to 65℃)
Operating Humidity	0 to 100 %RH (non-condensing)
Device Weight	237g
Certification	CE, FCC, RoHS
Battery (Contained in equipment)	
Battery Life	≥ 3 years (upload data once per hour)
Battery Voltage	3.6V
Battery Capacity	19Ah (non-rechargeable)

Applications

- **Smart Agriculture**
- **Smart Building and Industrial Control**
- **Environmental Monitoring**
- **Other Wireless Sensing Applications**

Part List

Part List		
1	Sensor	x1
2	Bracket	x1
3	M4 Self-drilling Screw	x4
4	M3 Self-drilling Screw	x2

Compliance & Logistics



HSCODE	9026209090
USHSCODE	9026208000
UPC	
EUHSCODE	9013101000
COO	CHINA

Resource Links

- https://www.seeedstudio.com/LoRaWAN-Barometric-Pressure-Sensor-EU868-p-4309.html
- LoRaWAN Gateway and Wireless Sensor Catalog V1.7
- SenseCAP LoRaWAN Sensor User Manual V1.1
- SenseCAP Product User Guide(LoRaWAN Series) V1.3
- SenseCAP Document Center
- CE Certificate

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