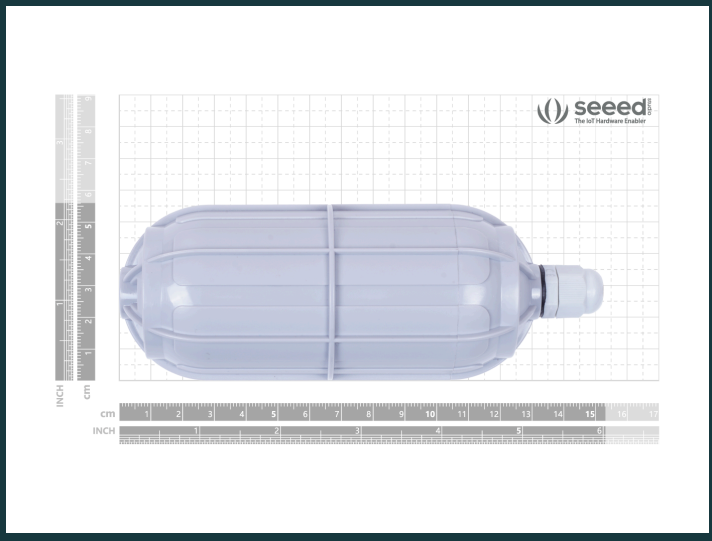
seeed studio

INDUSTRIAL PRODUCT DATASHEET

SenseCAP Wireless CO2 Sensor - LoRaWAN EU868MHz

SenseCAP Wireless CO2 Sensor - LoRaWAN EU868MHz: LoRaWAN Class A NDIR CO2 sensor with dual-channel detection, 10 km line-of-sight/2 km urban range, ≥1.5-year battery life, for smart agriculture, smart building/industrial, and...

SKU	UPDATED	PRICE
114991728	2026-10-22 08:47:19	$179.00(Excl. VAT)



Overview

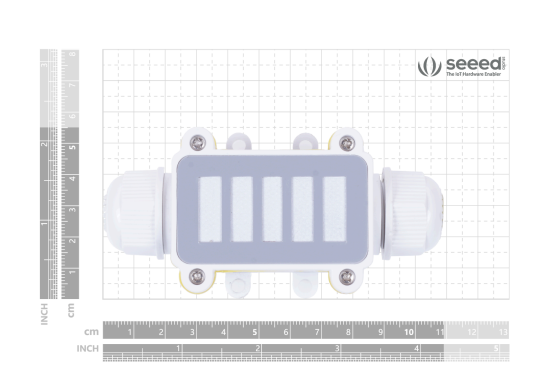


The SenseCAP Wireless CO2 Sensor - LoRaWAN EU868MHz supports LoRaWAN Class A, NDIR CO2 sensing, dual-channel detection for superior stability, 10 km line-of-sight/2 km urban transmission, ≥1.5-year battery life, and rapid installation. Applications include smart agriculture/precision agriculture, smart building and industrial control, environmental monitoring, and other wireless sensing applications.

Key Features

- Support LoRaWAN protocol Class A
- NDIR CO2 sensor technology
- Dual-channel detection for superior stability
- Ultra-wide-distance transmission: 10km in line of sight scene, 2 km in urban scenes
- Battery life ≥ 1.5 years
- Rapid installation and deployment (see the video below)

Product Gallery



Specification

CO2		
Parameters	Condition	Value
Range	-	0 to 40000 ppm
Accuracy	400 to 10000ppm	±(30 ppm + 3 %MV)
Resolution	-	1 ppm
Temperature Stability	T = 0 to 50 ℃	±2.5 ppm/℃

Parameters	
Product Model	LoRa-S-868-CO2-01
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); Indoor (Sensor Probe)
UV Resistance	anti-aging (from rain/sun exposure): UL746C F1
Enclosure Material	PC
Operating Temperature	0 ℃ to +50 ℃
Operating Humidity	0 to 95 %RH
Device Weight	319g
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/ Precision 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	9027100090
USHSCODE	9027106000
UPC	
EUHSCODE	9027109000
COO	CHINA

Resource Links

- https://www.seeedstudio.com/LoRaWAN-CO2-Sensor-EU868-p-4311.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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