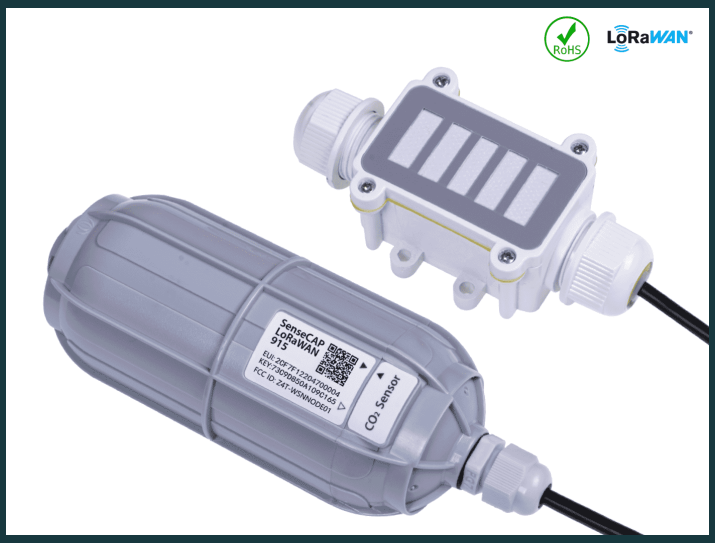
seeed studio

INDUSTRIAL PRODUCT DATASHEET

SenseCAP Wireless CO2 Sensor - LoRaWAN AU915 MHz

SenseCAP Wireless CO2 Sensor - LoRaWAN AU915 MHz: Long-range LoRaWAN CO2 sensor with NDIR technology, dual-channel detection, ultra-wide transmission, and ≥1.5 years battery life.

SKU	UPDATED	PRICE
114992651	2026-03-09 10:07:31	$179.00(Excl. VAT)



Overview



The SenseCAP Wireless CO2 Sensor - LoRaWAN AU915 MHz supports LoRaWAN protocol Class A and utilizes NDIR CO2 sensor technology with dual-channel detection for superior stability. It features ultra-wide-distance transmission (10km line of sight, 2km urban), battery life ≥ 1.5 years, and rapid installation for applications in smart agriculture, smart building, environmental monitoring, and other wireless sensing.

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)

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-AU915-CO2-01
Microcontroller	Ultra-low-power MCU
Support Protocol	Based on LoRaWAN v1.0.2 protocol
LoRa Channel Plan	AU915
LoRa Power Output	16 dBm (EIRP)
Sensitivity	-136.5dBm(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	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/SenseCAP-LoRaWAN-CO2-Sensor-LoRaWAN-AU915-p-4975.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

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