

LoRaWAN 4-in-1 Sensor

Smart Agriculture, Smart Building, Smart City, Smart Facility, Smart Factory, Smart Farm, Smart Healthcare, Smart Retail, Smart Transportation

SKU: AS-202



The Atomsenses AS-202 is a LoRaWAN electrochemical-type gas (NO2) detecting sensor with a high sensitivity to low concentrations of detected gas, high selectivity, and a stable baseline.

The sensor has an Ultra-low Power design and smart firmware, allowing it to last up to 5 years with three AA-type batteries. It can transmit data over long distances to any brand of LoRaWAN gateway.

✓ **LoRaWAN communication**

LoRaWAN communication standard to allow sensor connect to any LoRaWAN Gateway on the market

✓ **Up to 5 years powerful battery**

Ultra-low power sensing technology with Ultra-low power wireless technology allowing the sensor to last up to 5 years with 03 x AA batteries

✓ **Industrial Grade High Accuracy**

Advanced ultrasonic sensor to deliver high accuracy and stable measurement

✓ **Supports ODM & OEM**



- Temperature: -40°C - 80°C; Accuracy: ±0.5°C
- Humidity: 0% ~100% RH; Accuracy: ±3%RH
- Carbon Monoxide (CO): Range: 0 ~ 1000PPM; Resolution: 1PPM; Accuracy: < ±8%
- Nitrogen Dioxide (NO2) : Range: 0~2PPM; Resolution: 1PPB; Accuracy: ±3%

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## Specification

Wireless Transmission	
Technology	LoRaWAN®
Frequency	EU868/US915/AU915/KR920/AS923-1&2&3&4
Tx Power	16 dBm (868 MHz)/22 dBm (915 MHz)/19 dBm (470 MHz)
Sensitivity	-137dBm @300bps
Mode	OTAA/ABP Class A
Sensors	
Temperature Range	-20°C to +70°C
Accuracy	0°C to +70°C (+/- 0.3°C), -20°C to 0°C (+/- 0.6°C)
Resolution	0.1°C
Humidity Range	0% to 100% RH
Accuracy	10% to 90% RH (± 3%), below 10% and above 90% RH (± 5%)
Resolution	0.5% RH
Carbon Monoxide (CO) Range	0 ~ 1000PPM
Accuracy	< ±8%
Resolution	1 ppm
Nitrogen Dioxide (NO2) Range	0~2PPM
Accuracy	±3%
Resolution	1 ppm
Physical Characteristics	
Power Supply	3 × 2700 mAh ER14505 Li-SOCI2 Replaceable Batteries
Battery Life	Up to 5 Years
Operating Temperature	-20°C to +60°C
Relative Humidity	0% to 95% (non-condensing)
Ingress Protection	IP30
Dimension	98 × 98 × 29.5 mm
Installation	Wall Mounting