

LoRaWAN 4-in-1 Temp / Humidity / CO / NO2 Sensor

# Car Park Air Quality

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: Range: -40°C ~ 125°C; Resolution: 0.01 °C; Accuracy:  $\pm 0.2^{\circ}\text{C}$
- Humidity: Range: 0~100%RH; Resolution: 0.01%RH; Accuracy:  $\pm 1.8\%\text{RH}$
- Carbon Monoxide (CO): Range: 0 ~ 1000PPM; Resolution: 1PPM; Accuracy:  $< \pm 3\%$
- Nitrogen Dioxide (NO2) : Range: 0~10PPM; Resolution: 1PPB; Accuracy:  $\pm 3\%$

## LoRaWAN 4-in-1 Temp / Humidity / CO / NO2 Sensor

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

SKU: AS-202

## 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 Specification

Temperature	Temperature Range	-40°C to +125°C
	Accuracy	±0.2°C
	Resolution	0.01°C
Humidity	Humidity Range	0% to 100% RH
	Accuracy	±1.8%RH
	Resolution	0.01% RH
Carbon Monoxide (CO)	Range	0 - 1000ppm
	Accuracy	±3%
	Resolution	1ppm
Nitrogen Dioxide (NO2)	Nitrogen Dioxide (NO2) Range	0~ 10PPM
	Accuracy	±3%
	Resolution	1 ppm

### Physical Characteristics

Power Supply	2 × 2700 mAh ER14505 Li-SOCl2 Replaceable Batteries
Battery Life	Up to 5 Years
Ingress Protection	IP30
Dimension	98 × 98 × 29.5 mm
Installation	Wall Mounting