

# Smart Toilet GAS Sensor

SKU: AS-204



The Atomsenses AS-204 is a LoRaWAN electrochemical-type gas (NH3, N2S) 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

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- Temperature: Range: -40°C ~ 80°C; Resolution: 0.1 °C; Accuracy: ±0.5°C
  - Humidity: Range: 0~100%RH; Resolution: 0.1%RH; Accuracy: ±3%RH
  - Carbon Dioxide (CO<sub>2</sub>): Range: 400~5000PPM; Resolution: 1PPM; Accuracy: ±5%
  - NH<sub>3</sub>: Range: 0~5PPM; Accuracy: < ±3%
  - H<sub>2</sub>S: Range: 0~2PPM; Accuracy: < ±3%

## LoRaWAN 5-in-1 Sensor – Temp / Humidity / CO2 / NH3 / H2S

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

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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	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	Humidity Range	0% to 100% RH
	Accuracy	10% to 90% RH (± 3%), below 10% and above 90% RH (± 5%)
	Resolution	0.5% RH
Carbon Dioxide (CO2)	Carbon Dioxide (CO2) Range	400 to 5000 ppm
	Accuracy	± (50 ppm + 5 % of reading)
	Resolution	1 ppm
NH3	NH3 Range	0~100PPM
	Accuracy	< ±5%
	Resolution	1 PPM
H2S	H2S Range	0~ 100PPM
	Accuracy	< ±5%
	Resolution	1 PPM
Physical Characteristics		
Power Supply		3 × 2700 mAh ER14505 Li-SOCl2 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		125 × 125 × 28.5 mm
Installation		Wall Mounting