

LoRaWAN 4-in-1 Sensor – Temp / Humidity / NH3 / H2S

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



- 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
- NH3: Range: 0~5PPM; Accuracy: < ±3%
- H2S: Range: 0~2PPM; Accuracy: < ±3%

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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
NH3	NH3 Range	0~100PPM
	Accuracy	< ±5%
	Resolution	1 PPM
H2S	H2S Range	0~ 100PPM
	Accuracy	< ±5%
	Resolution	1 PPM
Physical Characteristics		
Power Supply		4 × 2700 mAh ER14505 Li-SOCI2 Replaceable Batteries Type C
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