

Bathroom Odor Detector

Featuring LoRaWAN®

GS301

The Milesight logo, featuring a stylized blue 'M' followed by the word 'Milesight' in a blue sans-serif font.

GS301 is a 4-in-1 LoRaWAN® bathroom odor detector to detect ammonia (NH₃) and hydrogen sulfide (H₂S) gas according to electrochemical principle. GS301 is also able to detect temperature and humidity to fully aware of the environment of bathrooms. When the NH₃ or H₂S gas concentration reaches the preset threshold, the detector will trigger both LED light alarm and buzzer to notify people timely to ventilate, which is an important part in smart bathroom solution.

Apart from local alarms, GS301 can also report the sensor data and alarm messages remotely by the use of LoRaWAN® technology. Integrating with Milesight LoRaWAN® gateway and Milesight IoT Cloud solution, users can monitor all the sensor data and control the device remotely and flexibly. Moreover, GS301 supports Milesight D2D to enable ultra-low latency control without gateways.

◆ Features

- Built-in high accuracy electrochemical gas detection sensor with more than 3-year-long life expectancy
- Built-in multiple sensors including NH₃, H₂S, temperature and humidity
- Built-in batteries to achieve wireless power supply and decrease the installation cost
- Equipped with buzzer and LED indicator to indicate threshold alarms



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- Damp proof coating inside the device to ensure device working well on various conditions of bathrooms
- Support Mulesight D2D protocol to enable ultra-low latency and direct ventilation control without gateways
- Built-in NFC for easy configuration
- Compatible with standard LoRaWAN® gateways and network servers
- Quick and easy management with Mulesight IoT Cloud solution

◆ Specifications

Wireless Transmission

Protocol	LoRaWAN®, Mulesight D2D
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4
Tx Power	16 dBm (868 MHz)/19 dBm (470 MHz)/22 dBm (915 MHz)
Sensitivity	-137dBm
Mode	OTAA/ABP Class A

Sensors

Ammonia (NH₃)

Detection Principle	Solid Polymer Electrochemical
Range	0 ~ 10 ppm
Accuracy	± 5% FS (-40 - 35°C)
Long-term Stability	< 1 % accuracy drift per month
Resolution	0.01 ppm

Hydrogen Sulfide (H₂S)

Detection Principle	Solid Polymer Electrochemical
Range	0 ~ 5 ppm
Accuracy	± 5% FS (-40 - 35°C)
Long-term Stability	< 1 % accuracy drift per month
Resolution	0.001 ppm

Temperature

Range	-40 - 85°C
Accuracy	± 0.2°C
Resolution	0.1°C

Humidity

Range	0 - 100%RH
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Accuracy	± 2%
Resolution	0.5%RH
Others	
LED& Buzzer	1 × Status/Alarm Indicator + 1 × Buzzer
Button	1 × Reset/Reboot Button
Configuration	Mobile App via NFC
Advanced Feature	Milesight D2D Controller
Physical Characteristics	
Power Supply	4 x 4000 mAh ER18505 Li-SOCl ₂ Replaceable Batteries
Sensor Life	> 3 Years
Battery Life	Around 3 Years (10 min interval)
Operating Temperature	-40°C - 55°C
Relative Humidity	0% - 95% (non-condensing)
Ingress Protection	IP30
Dimension	120 × 85 × 32.5 mm (4.72 × 3.35 × 1.28 in)
Material & Color	PC+ABS (Flame Retardant), White
Installation	Wall Mounting

◆ Dimensions(mm)

