

GS301



Bathroom Odor Detector Ammonia (NH₃) & Hydrogen Sulfide (H₂S)

GS301 measure:

- Ammonia (NH₃)
- Hydrogen Sulfide (H₂S)
- Temperature
- Humidity

When NH₃ or H₂S gas concentration reaches a preset threshold, the detector can trigger LED light alarm and buzzer to notify people to ventilate the bathroom.

GS301 is damp proof as it is coating inside to ensure the device is working reliable in various bathroom conditions.

GS301 applies 4 × 4000 mAh batteries providing around three-years battery life.

GS301 is equipped with NFC for easy mobile app configuration (Android and iOS).

GS301 is compliant with standard LoRaWAN[®] gateways and network servers.

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Bathroom Occupancy Sensor Ammonia (NH₃) & Hydrogen Sulfide (H₂S)

Wireless transmission

Technology	LoRaWAN®
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

Ammonia (NH₃)

Detection principle	Solid Polymer electrochemical
Range / Stability	0 ~ 10 ppm / < 1 % accuracy drift per month
Accuracy / Resolution	± 5% (-40 - 35°C) / 0.01 ppm

Hydrogen Sulfide (H₂S)

Detection principle	Solid Polymer electrochemical
Range / Stability	0 ~ 5 ppm / < 1 % accuracy drift per month
Accuracy / Resolution	± 5% (-40 - 35°C) / 0.01 ppm

Temperature

Range	-40 - 85°C
Accuracy / Resolution	± 0.2°C / 0.01°C

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Bathroom Occupancy Sensor Ammonia (NH₃) & Hydrogen Sulfide (H₂S)

Humidity

Range 0 - 100%RH

Accuracy / Resolution ± 2% / 0.5%RH

Others

LED & Buzzer 1 × Status / Alarm indicator + 1 × Buzzer

Button 1 × Reset / Reboot button

Configuration Mobile app via NFC

Physical characteristics

Power supply 4 x 4000 mAh ER18505 Li-SOCl₂ Replaceable batteries

Battery life Around 3 years (10 min interval) For guideline purposes only! /

Sensor life >3 years

Operating temp. -40°C to +55°C

Relative humidity 0% to 95% non-condensing

Ingress protection IP30

Dimension/Material 120 × 85 × 32.5 mm (4.72 × 3.35 × 1.28 in)

Installation Wall mount via screws or 3M tape

Material & color PC+ABS (Flame retardant), White