Bathroom Odor Detector

unabiz

Featuring LoRaWAN®

UBG301



UBG301 is a 4-in-1 LoRaWAN® bathroom odor detector to detect ammonia (NH₃) gas according to electrochemical principle. UBG301 is also able to detect temperature and humidity to fully aware of the environment of bathrooms. When the NH₃ 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, UBG301 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, UBG301 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
- \triangleright Built-in multiple sensors including NH₃, H₂S (Optional), 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

- Damp proof coating inside the device to ensure device working well on various conditions of bathrooms
- Support Milesight 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 Milesight IoT Cloud solution

Specifications

Wireless Transmissi	Wireless Transmission		
Protocol	LoRaWAN® , Milesight 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 (NH ₃)			
Detection Principle	Solid Polymer Electrochemical		
Range	0 ~ 10 ppm		
Accuracy	± 5% (-40 - 35°C)		
Long-term Stability	< 1 % accuracy drift per month		
Resolution	0.01 ppm		
Hydrogen Sulfide (H ₂ S) — Optional			
Detection Principle	Solid Polymer Electrochemical		
Range	0 ~ 5 ppm		
Accuracy	± 5% (-40 - 35°C)		
Long-term Stability	< 1 % accuracy drift per month		
Resolution	0.01 ppm		
Temperature			
Range	-40 - 85°C		
Accuracy	± 0.2°C		
Resolution	0.01°C		
Humidity			
Range	0 - 100%RH		

Accuracy Resolution 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 × 4000 mAh ER18505 Li-SOCl ₂ Replaceable Batteries Power Consumption Less than 1 Watt 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 Resistant to cleaning agent and splashes Installation Wall Mounting		
Dthers 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 × 4000 mAh ER18505 Li-SOCI₂ Replaceable Batteries Power Consumption Less than 1 Watt 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 Resistant to cleaning agent and splashes	Accuracy	± 2%
Button 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 × 4000 mAh ER18505 Li-SOCl ₂ Replaceable Batteries Power Consumption Less than 1 Watt 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 Resistant to cleaning agent and splashes	Resolution	0.5%RH
Button 1 × Reset/Reboot Button Configuration Mobile App via NFC Advanced Feature Milesight D2D Controller Physical Characteristics Power Supply 4 × 4000 mAh ER18505 Li-SOCl ₂ Replaceable Batteries Power Consumption Less than 1 Watt 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 Resistant to cleaning agent and splashes	Others	
Configuration Mobile App via NFC Advanced Feature Milesight D2D Controller Physical Characteristics Power Supply 4 x 4000 mAh ER18505 Li-SOCI2 Replaceable Batteries Power Consumption Less than 1 Watt 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 Resistant to cleaning agent and splashes	LED& Buzzer	1 × Status/Alarm Indicator + 1 × Buzzer
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Power Consumption Less than 1 Watt 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 Resistant to cleaning agent and splashes	Physical Characteristics	
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 Resistant to cleaning agent and splashes	Power Supply	4 x 4000 mAh ER18505 Li-SOCl ₂ Replaceable Batteries
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 Resistant to cleaning agent and splashes	Power Consumption	Less than 1 Watt
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 Resistant to cleaning agent and splashes	Sensor Life	> 3 Years
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 Resistant to cleaning agent and splashes	Battery Life	Around 3 Years (10 min interval)
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Material & Color PC+ABS (Flame Retardant), White Resistant to cleaning agent and splashes	Ingress Protection	IP30
Resistant to cleaning agent and splashes	Dimension	120 × 85 × 32.5 mm (4.72 × 3.35 × 1.28 in)
Installation Wall Mounting	Material & Color	
	Installation	Wall Mounting

◆ Dimensions(mm)





