

LoRaWAN G4 Toxic Gas Sensor with Siren for Industrial Safety



Smart Building, Smart Facility, Smart Factory, Smart Transportation

SKU: WSLRW-GCBG4



Safe Zone



Hazardous Zones

LORAWAN G4 TOXIC GAS SENSOR WITH SIREN WSLRW-GCB



LoRaWAN



10-Year



WSLRW-GCB is a LoRaWAN sensor designed to measure toxic gas concentrations. It features high-performance, ultra-low-power gas sensing technology to accurately detect specific gas concentrations in the air. Additionally, the sensor includes a built-in siren for local alarm notifications and a button for local alarm acknowledgment. Its ultra-low-power design and smart firmware enable the sensor to operate on a single battery for 5-10 years. It supports all LoRaWAN frequency plans, making it versatile for global use. The sensor is ideal for monitoring gas concentrations in industrial or commercial buildings in the areas of kitchens, parking garages, boiler rooms, laboratories, basements, HVAC rooms, utility rooms, industrial workspaces and more.

Applications

Indoor Air Quality Monitor, Gas Analyzing, Warehouse Monitoring, Gas Leakage Detection

Notes For Applications

- Select the suitable sensor range to get highest accuracy v.s sensor life. Please consult our engineers;
- Life time are 1-2 years for Electro-chemical sensors , depends on sensor type and actual operating conditions;
- Calibration cycle are 6-12 months for Electro-chemical sensors, depends on actual operating conditions;
- Check carefully the working temperature and humidity of the application;



LoRaWAN communication

LoRaWAN communication standard to allow sensor connect to any LoRaWAN Gateway on the market



5-10 years battery

Daviteq's ultra-low power sensing and wireless technology, smart firmware to allow the sensor can last up to 5-10 years with 01 battery



High Accuracy & Stable measurement

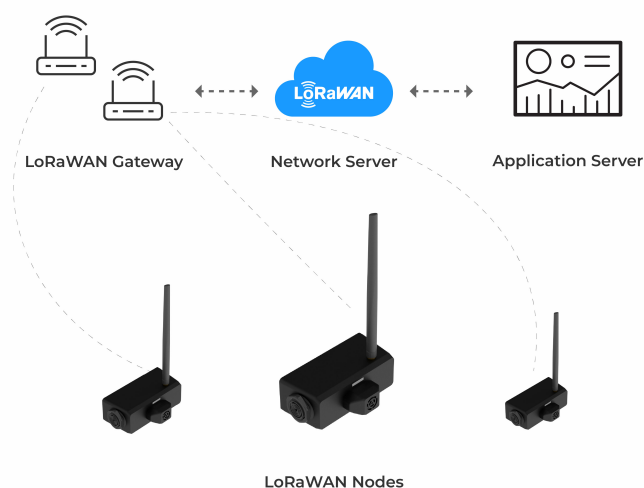
Advanced Electrochemical-type and Non-Dispersive Infrared gas sensor technology processing to deliver high accuracy and stable measurement



Local alarm

Local alarm sound & light notification and local alarm acknowledgement for local notifications

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SYSTEM ARCHITECTURE

DAVITEQ TECHNOLOGIES INC

Ho Chi Minh City, VN | Koblenz, DE | Melbourne, AU | Zurich, CH

+84.28.6268.2523 / 6268.2524

info@daviteq.com

www.iot.daviteq.com


Created date: Feb-10-2025


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Specification

| | |
|----------------------------|---|
| Type of measuring gas | Choose 1 of CO, CL ₂ , H ₂ S, H ₂ , NH ₃ gases |
| Measurement technology | High performance Electro-Chemical sensor |
| Measuring range | CO 0-500ppm, H ₂ S 0-100ppm, H ₂ 0-1000ppm, NH ₃ 0-100ppm, CL ₂ 0-20 ppm |
| Resolution | 0.1ppm for CO, H ₂ S, NH ₃ , H ₂ and 0.01ppm for CL ₂ |
| Reading stability | For CO, Cl₂, H₂S, H₂, NH₃, refer Daviteq's Electro-Chemical gas sensor link : |
| Sensor working temperature | -20~60°C |
| Sensor Working humidity | 15-90% RH, non-condensing |
| Operating pressure | 80kPa to 120kPa |
| Local functions | Alarm sound and alarm acknowledgement |
| SF Factors | SF7~SF12 |
| RF Frequency and Power | 860~930MHz, 14~20 dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915 |
| Protocol | LoRaWAN, class A |
| Antenna | External antenna |
| Data sending mode | Cycle, alarm and magnet key. |
| RF module compliant | ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (USA), ARIB STD-T108 (Japan) |
| Configuration | Via downlink (only for some configurations) or USB cable (PC software provided free of charge) |
| Battery | 01 x LiSOCl ₂ 3.6V size D battery |
| Housing | ABS, IP40 |
| Dimensions | H260xW150xD90 (with external antenna) |
| Net weight | 280 grams (without battery) |
| Installation | Wall mounting with screws |

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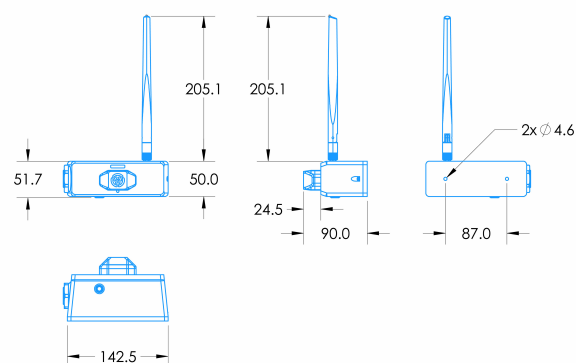
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DIMENSION DRAWING OF
WIRELESS NODE (Unit: mm)

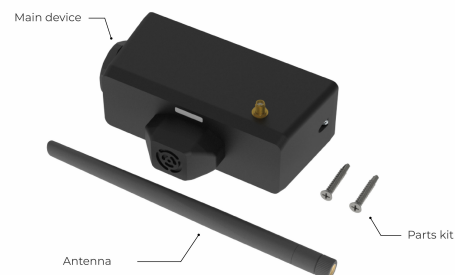
LORAWAN G4 TOXIC GAS SENSOR WITH SIREN
WSLRW-GCB



LS 33600
Lithium battery
-60~85°C working temperature
Low self-discharge rate
17000 mAh capacity

RECOMMENDED BATTERIES

LORAWAN G4 TOXIC GAS SENSOR WITH SIREN
WSLRW-GCB



PRODUCT PACKAGE

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Ordering Information

| ITEM CODES | DESCRIPTIONS |
|-------------------|--|
| WSLRW-GCB-CO-500 | LORAWAN GAS SENSOR WITH SIREN FOR INDUSTRIAL SAFETY, CO, 0-500 PPM, 3.6V BATTERY, IP40, LOCAL ALARM SOUND & ACKNOWLEDMENT, ALL LORAWAN FREQUENCY PLANS |
| WSLRW-GCB-H2S-100 | LORAWAN GAS SENSOR WITH SIREN FOR INDUSTRIAL SAFETY, H ₂ S, 0-100 PPM, 3.6V BATTERY, IP40, LOCAL ALARM SOUND & ACKNOWLEDMENT, ALL LORAWAN FREQUENCY PLANS |
| WSLRW-GCB-H2-1K | LORAWAN GAS SENSOR WITH SIREN FOR INDUSTRIAL SAFETY, H ₂ , 0-1000 PPM, 3.6V BATTERY, IP40, LOCAL ALARM SOUND & ACKNOWLEDMENT, ALL LORAWAN FREQUENCY PLANS |
| WSLRW-GCB-NH3-100 | LORAWAN GAS SENSOR WITH SIREN FOR INDUSTRIAL SAFETY, NH ₃ , 0-100 PPM, 3.6V BATTERY, IP40, LOCAL ALARM SOUND & ACKNOWLEDMENT, ALL LORAWAN FREQUENCY PLANS |
| WSLRW-GCB-CL2-20 | LORAWAN GAS SENSOR WITH SIREN FOR INDUSTRIAL SAFETY, CL ₂ , 0-20 PPM, 3.6V BATTERY, IP40, LOCAL ALARM SOUND & ACKNOWLEDMENT, ALL LORAWAN FREQUENCY PLANS |