

Sigfox Gas Sensor with Siren for Industrial Safety



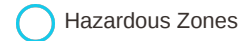
Smart Building, Smart Facility, Smart Factory, Smart Transportation

SKU: WSSFC-GCB

SIGFOX-READY GAS SENSOR WITH SIREN WSSFC-GCB



WSSFC-GCB-H1.JPG



WSSFC-GCB is a Sigfox-ready sensor designed to measure flammable or 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 Sigfox zones RC1, RC2, RC3c, RC4, RC5, RC6, and RC7, 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 and >7 years for NDIR sensors , depends on sensor type and actual operating conditions;
- Calibration cycle are 6-12 months for Electro-chemical sensors and about 30 months for NDIR sensor, depends on actual operating conditions;
- Check carefully the working temperature and humidity of the application;

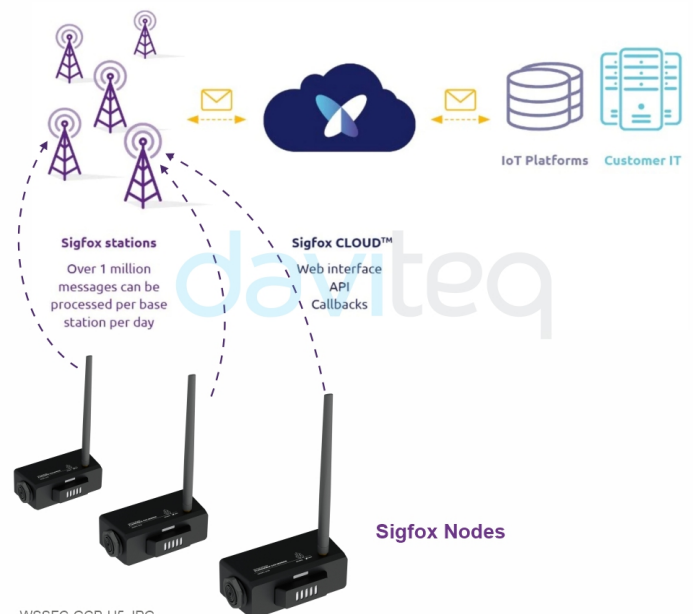
Sigfox-Ready
Support Sigfox Zones RC1-RC7

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

High Accuracy & Stable
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

SYSTEM ARCHITECTURE



WSSFC-GCB-H5.JPG

DAVITEQ TECHNOLOGIES INC

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Specification

| | |
|----------------------------|---|
| Type of measuring gas | Choose 1 of CH ₄ , C ₃ H ₈ , CO, Cl ₂ , H ₂ S, H ₂ , NH ₃ gases |
| Measurement technology | High performance Non-Dispersive Infrared (NDIR) sensor or high performance Electro-Chemical sensor |
| Measuring range | CH ₄ 0-100% LEL, C ₃ H ₈ 0-100% LEL, CO 0-500ppm, H ₂ S 0-100ppm, H ₂ 0-1000ppm, NH ₃ 0-100ppm, Cl ₂ 0-20 ppm |
| Resolution | 0.1% or 0.1ppm, 0.01ppm |
| Reading stability | <p>For C₃H₈ and CH₄, refer Daviteq's NIDR gas sensor link:</p> <p>For CO, Cl₂, H₂S, H₂, NH₃, refer Daviteq's Electro-Chemical gas sensor link:</p> |
| 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 |
| Sigfox regions supported | RC1~RC7 |
| 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 battery |
| Housing | ABS, IP40 |
| Dimensions | H80xW150xD50 (without battery) |
| Net weight | < 300 grams (without battery) |
| Installation | Wall mounting with screws |

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CO GAS SENSOR MONITORING IN WINE CELLAR



WSSFC-GCB-H3.JPG

SIGFOX-READY FLAMMABLE GAS SENSOR FOR COMMERCIAL KITCHENS



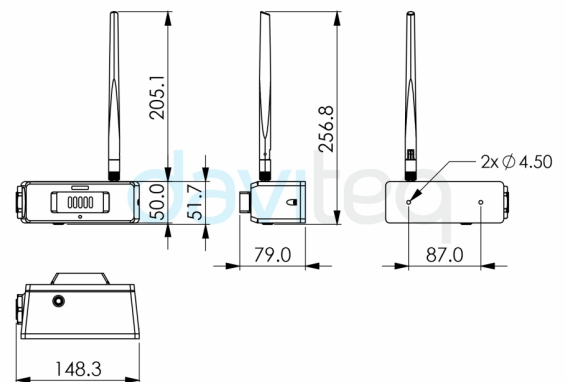
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INSTALL ON WALL 30-40MM ABOVE GROUND



WSSFC-GCB-H4.JPG

DIMENSION DRAWING OF WIRELESS NODE (Unit: mm)



WSSFC-GCB-H6.JPG

RECOMMENDED BATTERIES FOR SENSOR NODE

LS 33600 Lithium battery



-60°C..+85°C working temperature

Low self-discharge rate

17.0 Ah Capacity

WSSFC-GCB-H7.JPG

PRODUCT PACKAGE



WSSFC-GCB-H8.JPG

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Ordering Information

| ITEM CODES | DESCRIPTIONS |
|-------------------|--|
| WSSFC-GCB-CH4-01 | SIGFOX-READY GAS SENSOR WITH SIREN FOR INDUSTRIAL SAFETY, CH ₄ , 0-100% LEL, 3.6V BATTERY, IP40, LOCAL ALARM SOUND & ACKNOWLEDMENT, RC1-RC7 |
| WSSFC-GCB-C3H8-01 | SIGFOX-READY GAS SENSOR WITH SIREN FOR INDUSTRIAL SAFETY, C ₃ H ₈ , 0-100% LEL, 3.6V BATTERY, IP40, LOCAL ALARM SOUND & ACKNOWLEDMENT, RC1-RC7 |
| WSSFC-GCB-CO-500 | SIGFOX-READY GAS SENSOR WITH SIREN FOR INDUSTRIAL SAFETY, CO, 0-500 PPM, 3.6V BATTERY, IP40, LOCAL ALARM SOUND & ACKNOWLEDMENT, RC1-RC7 |
| WSSFC-GCB-H2S-100 | SIGFOX-READY GAS SENSOR WITH SIREN FOR INDUSTRIAL SAFETY, H ₂ S, 0-100 PPM, 3.6V BATTERY, IP40, LOCAL ALARM SOUND & ACKNOWLEDMENT, RC1-RC7 |
| WSSFC-GCB-H2-1K | SIGFOX-READY GAS SENSOR WITH SIREN FOR INDUSTRIAL SAFETY, H ₂ , 0-1000 PPM, 3.6V BATTERY, IP40, LOCAL ALARM SOUND & ACKNOWLEDMENT, RC1-RC7 |
| WSSFC-GCB-NH3-100 | SIGFOX-READY GAS SENSOR WITH SIREN FOR INDUSTRIAL SAFETY, NH ₃ , 0-100 PPM, 3.6V BATTERY, IP40, LOCAL ALARM SOUND & ACKNOWLEDMENT, RC1-RC7 |
| WSSFC-GCB-CL2-20 | SIGFOX-READY GAS SENSOR WITH SIREN FOR INDUSTRIAL SAFETY, CL ₂ , 0-20 PPM, 3.6V BATTERY, IP40, LOCAL ALARM SOUND & ACKNOWLEDMENT, RC1-RC7 |

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