

# SIGFOX-READY EX D APPROVED FLAMMABLE GAS SENSOR

daviteq

SKU: WSSFCEx-GHC

## SIGFOX Ex Approved Flammable Gas Sensor WSSFCEx-GHC



WSSFCEx-GHC-H1.JPEG

WSSFCEx-GHC is a Sigfox-ready sensor with Ex d explosion-proof approval and comes with a built-in high-performance NDIR technology sensor to detect the Hydrocarbon Gas concentration in the air. Ultra-low-power design and smart firmware allow the complete Wireless and Sensor package to run on a single battery type C for 5 years or more with 30 minutes update. It supports Sigfox zones RC1, RC2, RC3c, and RC4.

Typical applications: CH<sub>4</sub>, C<sub>3</sub>H<sub>8</sub>, C<sub>2</sub>H<sub>4</sub>, C<sub>2</sub>H<sub>6</sub>, C<sub>4</sub>H<sub>10</sub> leakage detection for Gas distribution station, Metering skid, Pressure reducing station...



### SIGFOX-READY

Support Sigfox Network zones RC1, RC2, RC3c, and RC4



### DURABLE SENSOR WITH 10 YEAR LIFE SPAN

Advanced NDIR technology sensor for continuous working for more than 10 years without intervention or replacement.



### MORE THAN 5 YEARS BATTERY LIFE

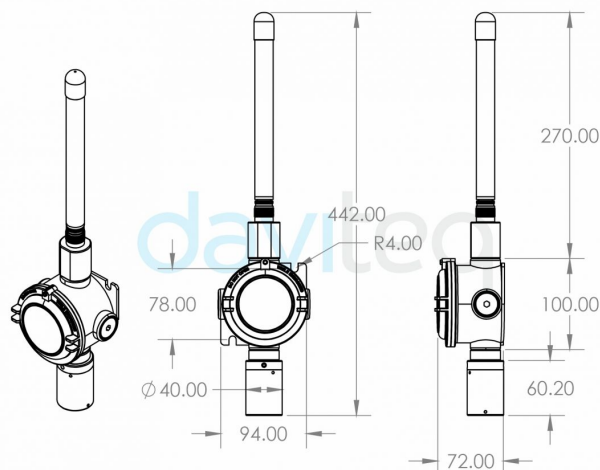
Ultra-low power sensor technology allows 5-year battery life with a single size C battery, 30 minutes update in RC4.



### PLUG & PLAY

The sensor is tested and pre-configured in factory before shipping.

### DIMENSION DRAWING OF SENSOR NODE (Unit: mm)



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## SPECIFICATION

|   |  |
|---|--|
| Measurement technology                      | high-performance NDIR, 10 years sensor life span   |
| Measuring range                             | 0 - 100% flammable gas LEL, equivalent to 0-5% vol. (CH4). For C3H8, C2H4, C2H6, C4H10 gas application please contact us |
| Resolution   Response time (T90)            | 0.1% LEL / < 40 seconds  |
| Measurement variation                       | for CH4 it is $\pm 0.1\%$ vol. or $\pm 5\%$ of reading (whichever is greater) in the +20...+25 °C temperature range      |
| Temperature   Humidity   Operating pressure | -40 to 60°C / 0 - 98% RH, non-condensing / 80kPa to 120kPa   |
| Antenna                                     | 2 dbi N-type antenna   |
| Sigfox Zones                                | RC1, RC2, RC3c, RC4  |
| Data sending mode                           | cyclically, or when an alarm occurs or activated by a magnetic key. Suggest up to 48 messages per day.                   |
| RF module compliant                         | ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (USA), ARIB STD-T108 (Japan)                                       |
| Configuration                               | via Downlink or via USB cable (PC software provided free of charge)  |
| The battery                                 | 01 type C 3.6V LiSOCl2 battery (recommended SAFT LS26500)  |
| Equipment housing                           | Aluminum alloy, powder coated, IP66, Wall mount installation   |
| Certified Ex d                              | IMQ 14 ATEX 005 X, TÜV CY 18 ATEX 0206158 X and IECEx DEK 15.0048X   |
| Hazard Protection Label                     | ATEX II 2G Ex db IIC T5/T6 Gb and ATEX II 2D Ex tb IIIC T100/T85°C Db  |
| Compatible                                  | ATEX 2014/34/EU / Standard IEC-EN60079-0 IEC-EN60079-1 IEC-EN60079-31  |
| Areas of application                        | Zones 1 & 2 gas hazardous areas, Zones 21 & 22 hazardous areas containing flammable dust                                 |
| Size   Net weight                           | H220xW100xD80 (not including antenna) / ~ 1500 grams (without battery)   |

## WHAT'S IN THE PACKAGE?



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## RECOMMENDED BATTERIES

## LS 26500 Lithium battery



-60°C...+85°C working temperature

Low self-discharge rate

7.7 Ah Capacity

WSSFCEX-GHC-H4.JPEG

ORDERING INFORMATION

|                |  |
|----------------|--|
| WSSFCEX-GHC-01 | SIGFOX-READY FLAMMABLE GAS SENSOR, 0-100% LEL, EX D APPROVED ZONES 1-2-21-22, BATTERY 3.6V, IP66, FOR RC1, RC2, RC3c, RC4. |
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