

LORAWAN EX D APPROVED HYDROGEN SULFIDE H2S GAS SENSOR

LoRaWAN Ex d APPROVED HYDROGEN SULFIDE
H2S GAS SENSOR
WSLRWEX-G-H2S

LoRaWAN



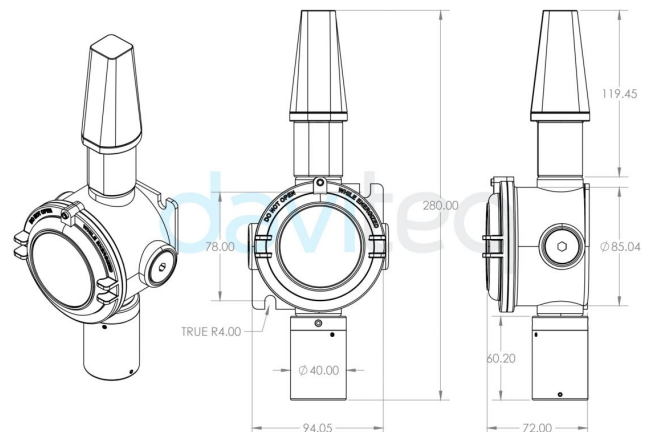
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H2S is a LoRaWAN sensor with Ex d explosion-proof approval, comes with a built-in high-performance sensor to detect the Hydrogen Sulfide H2S gas concentration in the air. With Ultra-low-power design and smart firmware allow the complete Wireless and Sensor package to run on a single battery type D for 5 years or more with 15 minutes update. It supports global frequency bands EU868, IN865, RU864, KR920, AS923, AS923-2, AU915, US915. The sensor can work perfectly with any LoRaWAN Gateway on the market.

Typical applications: detect H2S gas in wastewater treatment systems, industrial systems, oil refineries...

- ✔ **LORAWAN COMMUNICATION**
Support LoRaWAN Class A, connect to any LoRaWAN gateway on the market
- ✔ **HIGH PERFORMANCE SENSOR**
Deliver stable output and reliable
- ✔ **MORE THAN 5 YEARS BATTERY LIFE**
Ultra low power sensor technology allow 5-year battery life with a single size D battery
- ✔ **PLUG & PLAY**
The sensor is tested and pre-configured in factory before shipping.

DIMENSION DRAWING OF WIRELESS SENSOR
(Unit: mm)



WSLRWEX-G-H2S-H2.JPG

SPECIFICATION

Measurement technology	High-performance electrochemical
Measurement Range	0-100 ppm
Maximum Overload	200 ppm
Max response time (T90)	< 25s
Resolution	0.01 ppm
Repeatability	< 2% of reading value
Drift	< 2% of reading value per month
Sensor life	2 years in clean air
Sensor Operating Temperature Range	-40 to 50 °C
Operating Pressure	atmosphere +/- 10%
Operating Humidity Range	15 - 90% RH, non-condensing
Data rate	250bps .. 5470bps
Antenna Antenna	2.67 dbi
RF Frequency and Power	860..930 MHz, +14 .. +20 dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AS923-2, AU915, US915
Protocol	LoRaWAN Class A
Data sending modes	interval time, an alarm occurred and manually triggered by a magnetic key. Recommend max 24 messages per day
Configuration	via offline USB cable (PC software is supplied for free)
Battery	01 x D type LiSOC12 3.6V battery
Housing	Fire retardant GFP, IP66
Ex Certification	IMQ 14 ATEX 005 X, TÜV CY 18 ATEX 0206158 X and IECEx DEK 15.0048X
Hazardous Protection Marking	ATEX II 2G Ex db IIC T4 Gb and ATEX II 2D Ex tb IIIC T135°C Db
Ambient working temperature	-40°C to +85°C
Standards	IEC EN 60079-0, IEC EN 60079-7 and IEC EN 60079-31
Applicable Zones	Zone 1 & 2 gas hazardous areas Zone 21 & 22 hazardous areas which contain conductive combustible dust
Dimensions	H170xW122xD77
Net-weight	~ 1100 grams (without battery)
Mounting	Wall mount bracket

ORDERING INFORMATION

WSLRWEX-G-H2S-100

LORAWAN H2S GAS SENSOR, 0-100PPM, EX D APPROVED ZONES 1-2-21-22, BATTERY 3.6V, IP66,
FOR EU868, IN865, RU864, KR920, AS923, AS923-2, AU915, US915