

LORAWAN EX D APPROVED HYDROGEN SULFIDE H2S GAS SENSOR



SKU: WSLRWEX-G-H2S

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

LoRaWAN



WSLRWEX-G-H2S-H1.JPG

WSLRWEX-G-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

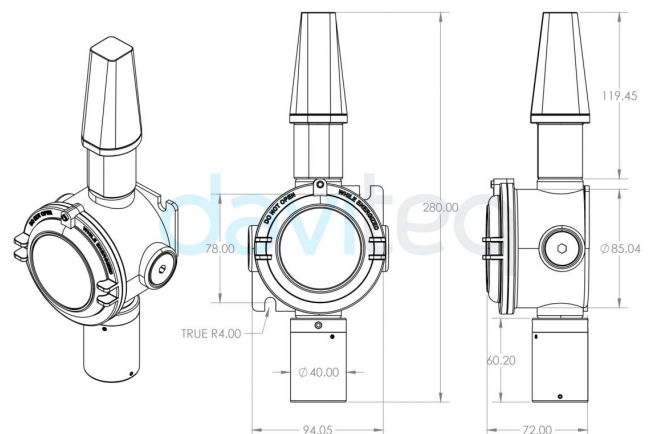
Ultra low power sensor technology allow 5-year battery life with a single size D battery



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

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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
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