



WLRC-S52



Wireless H₂S (Hydrogen Sulfide) Sensor

The WLRC-S52 is a wireless sensor that detects Hydrogen Sulfide (H₂S) concentration in air. The body and the Hydrogen Sulfide sensor are connected through the RS485 interface, and the detected data is transmitted to other devices through the wireless network. The data transmission is based on the LoRa™ communication platform.

Features:

- Super Long Range Signal Penetration
- 12V DC adapter power supply
- Easy Installation
- RS485 communication
- Improved interference immunity
- Interactive WatchNET IoT platform with dashboard, search and notification settings



Applications:

- Hydrogen Sulfide (H₂S) concentration detection in the air
- Oil and Gas industry
- Wastewater treatment industries
- Farms with manure storage pits or landfills
- Pig farm
- Chemical plant
- Sewers and septic tanks
- Exploration drilling channel

Schematic Diagram:



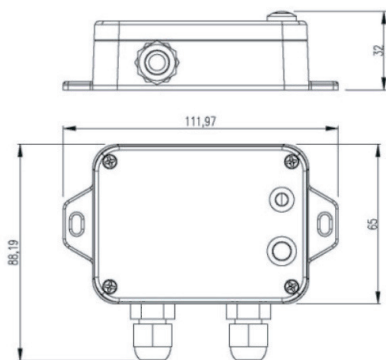
Hydrogen Sulfide (H₂S) concentration in the air



Technical Specifications

Electrical characteristics	
Power Supply	DC 12V adapter power supply
Operating Current	≤ 60mA (external sensor)
* Specific electrical characteristics will vary depending on the power supply voltage	
Hydrogen Sulfide (H ₂ S) sensor parameters	
Power supply	+ 10V - +24 VDC
Hydrogen sulfide measurement range	0- 100 ppm
Hydrogen sulfide measurement method	Electrochemical sensors
Hydrogen sulfide repeatability	≤± 3 % of reading (@25°C))
Detectable lower accuracy	≤ 2% maximum range
Response Time	≤ 30 seconds
Hydrogen sulfide resolution	< 0.1ppm
Service Life	In the air > 2 years
Communication port	RS485
Radio frequency characteristics	
Frequency range	863MHz-928MHz 470MHz-510MHz
Power Output	19 dBm ±1dBm
Receiving sensitivity	-136dBm (LoRa, Spreading Factor=12, Bit Rate=293bps) -121dBm (FSK, Frequency deviation=5kHz, Bit Rate=1.2kbps)
Antenna Type	Built-in antenna
Communication Range	Up to 500m/0.310miles, the actual transmission distance depends on the environment
Data Transfer Rate	LoRa: 0.3kbps ~ 50kbps FSK: 1.2kbps ~ 300kbps
Modulation System Mode	LoRa/FSK (Note: choose one of them)
Available Frequency	EU863-870, US902-928, Configured before shipment
Physical characteristics	
Main unit size	Main part: L: 112 mm x W: 88.19 mm x H: 32 mm / 4.41" x 3.47" x 1.26"
Ambient temperature range	-20°C ~ 55°C / -4°F ~ 131°F
Protection class	Main Part IP65
Main unit weight	160g / 0.353lb
Environment Humidity Range	<90%RH (No condensation)
Storage Temperature	-40°C ~ 85°C / -40°F ~ 185°F

Dimensions



* All product names, logos and brands are property of their respective owners. All company products and service names used on this box/website/brochure are for identification purposes only. Use of these names, logos and brands does not imply endorsement. 2021 WatchNET Inc. © All Rights Reserved. All product specifications are subject to change without notice.

CANADA:

351 Ferrier Street, Unit 5
Markham, ON L3R 5Z2
Toll Free: 1-866-843-6865
Tel: 416-410-6865

USA:

171 Cooper Ave. Suite 110
Tonawanda, NY 14150 USA
Toll Free: 1-866-843-6865
Local: 1-716-877-7277

UAE:

PO Box No 126312
Office Suite 703, Oxford Towers
Business Bay, Dubai, UAE
Tel: + 971 4 2767117

Rev. Dec., 2021

www.watchnetiot.com
info@watchnetiot.com