

SulfiLogger

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SulfiLogger™ H₂S sensor

Measure H₂S anywhere and without interruptions.

The SulfiLogger™ H₂S sensor provides superior insights that enable you to adopt a proactive and data-driven approach to odor and corrosion control in wastewater, biogas, and oil & gas industries.



- › Measure in wastewater, in air, or in gases
- › Get continuous data in SCADA / Cloud
- › Patent-pending sensor technology
- › ATEX, HazLoc, & IECEx (X1 sensors)

X1 sensors:



Benefits

Specifications

Contact
us

Get superior H₂S data

Measure H₂S anywhere

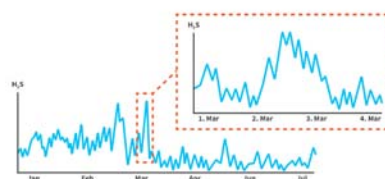
Measure H₂S anywhere to get exactly the data, you're looking for.



- Measure in rough environments with 0-100% humidity & no oxygen
- Measure in raw wastewater, in humid air, or in wet process gases
- Measure in environments with high temperature and high pressure

Get data without interruptions

Get reliable H₂S insights on any time scale to identify seasonal effects, daily patterns, and unexpected spikes.



- Get continuous data
- Get long-term sensor data with no need for dry-out time
- Get data in your SCADA system, in the cloud, or via RS-232 integration

The SulfiLogger™ probe is ideal for many hydrogen sulphide monitoring applications in industries such as:



Measure H₂S the easy way

Measure H₂S directly in untreated wastewater to get reliable insights



Monitor H₂S continuously in wet biogas immediately after



Measure right after the oil & gas separator to follow the development

Simple installation

Get started measuring H₂S without preconditioning, sampling systems, or manual test handling. We supply all mounting hardware.



0:00 / 0:06



Minimal maintenance

Perform a simple 10-minute field calibration every 3rd month to keep accurate measurements over time.



0:00 / 0:08



Applications

The SulfiLogger™ sensor's reliable insights empower you to make smarter decisions. Among other applications, the sensor is ideal for these purposes:



Root cause analysis

Initiate short-term measurement campaigns to select and prioritize mitigation activities.

[Case study](#)



Permanent monitoring

Permanently monitor critical hotspots – continuously & without interruptions.

[Case study](#)



Chemical dosing control

Control and optimize chemical/scavenger dosing operations using sensor data.

[Case study](#)

Sensor specifications

The SulfiLogger™ H₂S sensor measures the partial pressure of H₂S. It uses a novel and patent-pending microelectrochemical sensor technology that is robust even in challenging environments.

H₂S sensor models



**SulfiLogger™
S1/X1-1020**



**SulfiLogger™
S1/X1-1120**



**SulfiLogger™
X1-1220**

Measurement media

Wastewater
(mg/L)
Air (ppm)

Pressurized
wastewater (mg/L)
Biogas (ppm)

Pressurized
process water
(mg/L)
Natural gas (ppm)

Measurement range

Low range
0-0,5 mg/L
0-100 ppm

Low range
0-0,5 mg/L
0-100 ppm

Low range
0-0,5 mg/L
0-100 ppm

Normal range
0-5 mg/L
0-1000 ppm

Normal range
0-5 mg/L
0-1000 ppm

Normal range
0-5 mg/L
0-1000 ppm

Custom range
Custom
measurement
ranges upon
request

Custom range
Custom
measurement
ranges upon
request

Custom range
Custom
measurement
ranges upon
request

Max pressure

3 barg (44 psig)

3 barg (44 psig)

3 barg (44 psig)
Up to 300 barg
(4350 psig) with
the SulfiLogger™
natural gas sensor
system

Operating temperature range

0 °C to +40 °C
(32 °F to +104 °F)

0 °C to +40 °C
(32 °F to +104 °F)

0 °C to +60 °C
(32 °F to +140 °F)

H ₂ S sensor models			
Front design	Passive anti-fouling flush front for sensor submersion	Threaded G 1" (ISO 228-1, BSPP)	Threaded G 1" (ISO 228-1, BSPP)
Material	Stainless Steel EN 1.4404 (316L)	Stainless Steel EN 1.4404 (316L)	Surface treated stainless steel for improved corrosion resistance EN 1.4404 (316L)
Price	 View price in Shop	 View price in Shop	 View price in Shop
Sensor models			

Sensor models

SulfiLogger™ S1/X1-1020

Measurement media	Wastewater (mg/L) Air (ppm)
Measurement range	Low range 0-0.5 mg/L 0-100 ppm Normal range 0-5 mg/L 0-1000 ppm Custom range Custom measurement ranges upon request
Max pressure	3 barg (44 psig)

Sensor models	
Operating temperature range	0 °C to +40 °C (32 °F to +104 °F)
Front design	Passive anti-fouling flush front for sensor submersion
Material	Stainless Steel EN 1.4404 (316L)
Price	 View price in Shop

SulfiLogger™ S1/X1-1120

Measurement media	Pressurized wastewater (mg/L) Biogas (ppm)
Measurement range	Low range 0-0.5 mg/L

	0-100 ppm
	Normal range 0-5 mg/L 0-1000 ppm
	Custom range Custom measurement ranges upon request
Max pressure	3 barg (44 psig)
Operating temperature range	0 °C to +40 °C (32 °F to +104 °F)
Front design	Threaded G 1" (ISO 228-1, BSPP)
Material	Stainless Steel EN 1.4404 (316L)
Price	 View price in Shop

SulfiLogger™ X1-1220

Measurement media	Pressurized process water (mg/L) Natural gas (ppm)
Measurement range	Low range 0-0.5 mg/L 0-100 ppm
	Normal range 0-5 mg/L 0-1000 ppm
	Custom range Custom measurement ranges upon request
Max pressure	3 barg (44 psig) Up to 300 barg (4350 psig) with the SulfiLogger™ natural gas sensor system
Operating temperature range	0 °C to +60 °C

	(32 °F to +140 °F)
Front design	Threaded G 1" (ISO 228-1, BSPP)
Material	Surface treated stainless steel for improved corrosion resistance EN 1.4404 (316L)
Price	 View price in Shop

Technical specifications		Mechanical & other specifications	
Accuracy	+/- 5% of reading	Length	240 mm (9.4 in)
Detection limit	1% of full range	Diameter	48.3 mm (1.9 in)
Response time	<25 seconds	Weight	0.85 kg (1.9 lb)
Operating humidity range	0-100%	Warranty	1 year**
Max water depth	10 metres	Chemical interferences specifications	
Storage temperature range	0 °C to +40 °C (32 °F to +104 °F)	** When used in accordance with the Installation Manual.	
Design temperature range	-20 °C to +60 °C (-4 °F to +140 °F)	Certification	
Power input options	4-20 mA loop power DC power (12-28	S1-series:   	
		X1-series:	

Technical specifications

VDC)

Batteries*

Data output options

4-20 mA

analogue signal

RS-232 digital
signal

Cloud data*

* With the PowerCom Box only.

Certification



- ETL listed (cETLus marked) to Canadian and US General Safety and Hazardous (Class I, Div. 1) Locations***
- ATEX, UKEX, and IECEx approved for use in Zone 0 Hazardous Areas (Ex II 1G Ex ia IIC T4 Ga)***

*** SulfiLogger™ X1 only. Certificates are available on sulfilogger.com/support.

Want to know more?

Would you like to know more about the SulfiLogger™ sensor?
Send us an inquiry and we will get back to you.

Name (*)

Email (*)

Country (*)	▼
Company (*)	
Application (*)	▼
How can we help you? (*)	▼
Message (optional)	

☐ I have read the [privacy policy](#) and accept to receive emails (*).

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HORIZON 2020

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