



Liquid-phase H₂S sensor for wastewater

Continuously measure H₂S anywhere in sewer networks and at treatment plants and get reliable insights for proactive odor & corrosion control.



Get the right H₂S insights

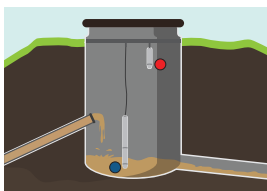
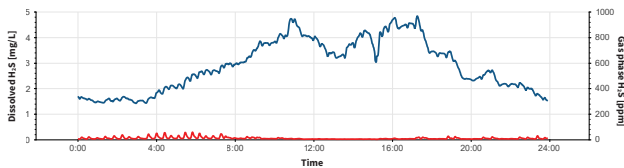
The key to successful H₂S control is reliable data

The SulfiLogger™ sensor's liquid-phase measurements provide reliable insights that are suitable for numerous H₂S control applications including chemical dosing control.

View data on any device

Keep track of all changes in H₂S levels

The SulfiLogger™ sensor's continuous sensor data are available directly into SCADA or PLC systems - or on any device with the SulfiLogger™ WebData cloud service.



Why liquid-phase measurements are superior

Measurements in the air just below the manhole cover are affected by local conditions including turbulence, flow, ventilation, and other factors.

Liquid-phase measurements in the wastewater reveal all changes in H₂S levels and are suitable for a wider range of H₂S control applications.



SulfiLogger™ WebData - cloud data on any device

View and compare sensor data on any time-scale, compare different measurement sites, download data to excel, and integrate data into other systems via the rest API. SulfiLogger™ WebData and battery-powered sensor operation is available with the PowerCom Box accessory.

Specifications

EN

Sensor models



SulfiLogger™ S1/X1-1020



SulfiLogger™ S1/X1-1120



SulfiLogger™ X1-1220

	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	0-0.5 mg/L 0-100 ppm	0-0.5 mg/L 0-100 ppm	0-0.5 mg/L 0-100 ppm
	0-5 mg/L 0-1000 ppm	0-5 mg/L 0-1000 ppm	0-5 mg/L 0-1000 ppm
	Custom ranges upon request	Custom ranges upon request	Custom ranges upon request
Max pressure	3 barg (44 psi)	3 barg (44 psi)	3 barg (44 psi) Custom pressure rating upon request
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)
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)

Technical specifications

Accuracy	+/- 5% of reading
Detection limit	1% of full range
Response time	<25 seconds
Operating humidity range	0-100%
Max water depth	10 metres
Storage temperature range	0 °C to +40 °C (32 °F to +104 °F)
Design temperature range	-20 °C to +60 °C (-4 °F to +140 °F)
Power input options	<ul style="list-style-type: none"> 4-20 mA loop power DC power (12-28 VDC) Batteries*
Data output options	<ul style="list-style-type: none"> 4-20 mA analogue signal RS-232 digital signal Cloud data*

* With the PowerCom Box only

Mechanical & other specifications

Length	240 mm (9.4 in)
Diameter	Ø48.3 mm / 1½" pipe
Weight	0.85 kg (1.9 lb)
Warranty	1 year / 5 years**

** 1 year standard warranty. Up to 4 years extended warranty with SulfiLogger Care™

Certification

S1 sensors



X1 sensors



- 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 sensors only. Certificates are available on sulfilogger.com/support

Specifications subject to change without notice
SulfiLogger H₂S sensor specifications sheet_en_2024-05-204

SulfiLogger



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