

# S-Online

## Online determination of sulfides in wastewater

### Product description

The S-Online is designed for online measurement of sulfides in wastewater. Sulfide/H<sub>2</sub>S can be analysed even below the odor threshold. By the combination of a highly efficient gas extraction and a selective detection method, sulfide/H<sub>2</sub>S is determined in aqueous solutions.

After dosing, the sample is acidified forming H<sub>2</sub>S gas which is then degassed from the solution in the S-Online. The gas is then carried into an amperometric sensor that is sensitive to detecting H<sub>2</sub>S. Therefore, interferences of the sample matrix do not affect the sensitive measurement. Even complex matrices such as industrial wastewater (e. g. containing alkaline wastewater, hydrocarbons or ammonia) can be monitored instantly as well as providing reproducible results.

The wastewater sample is taken up automatically. By the use of an integrated automatic back-purging, the system is robust and low-maintenance. The measuring range can be varied widely and can also be adjusted to the required application.

S-Online can be used as a H<sub>2</sub>S dependent controlling system for chemical wastewater treatment. The results can be transferred through digital alarm- and analog outputs into the measuring station.



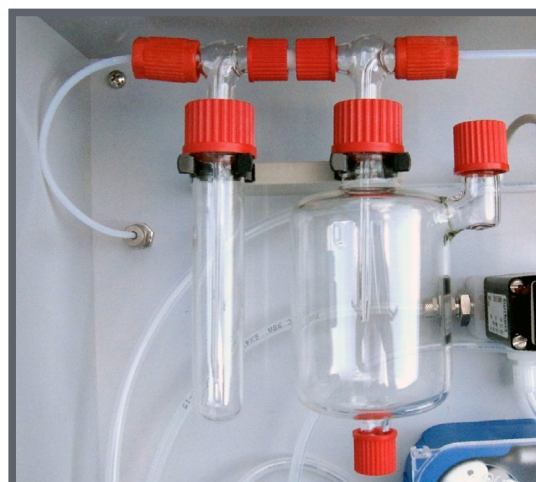
S-Online for online measurement of sulfide/H<sub>2</sub>S

### Applications

- Online acquisition of the current sulfide concentration
- Wastewater (e. g. pump sump, pressure water pipe or sewer system) for regulation
- Environmental analysis applications
- Wastewater analysis
- Landfill leachate monitoring

#### Areas:

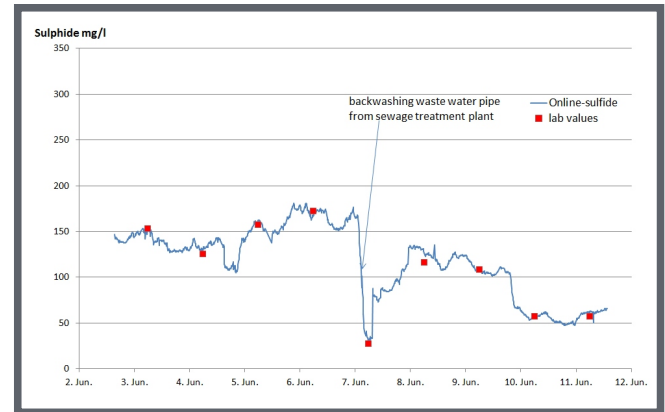
- Municipal wastewater associations
- Industrial wastewater
- Sewage and Wastewater treatment plants



Gas drying

## Advantages

- Complete extraction of H<sub>2</sub>S from aqueous samples (even from heavily basic samples)
- No cross sensitivity (realized by indirect method)
- Easy-to-use calibration
- Completely automatic sample dosing
- Simple and well-arranged software
- Robust and fast method of analysis (up to 12 analyses per hour)
- Output 4 - 20 mA for integration of the H<sub>2</sub>S signal into the local system
- High durability of the sensor by intermittent gas circuit
- Integrated rinsing steps to ensure a constant analysis of a present sample



Comparison of laboratory results with online sulfide amounts in the industrial wastewater

## Specifications

Taking up of the sample via transfer line - up to 30 m long and up to 5 m deep

Typical duration:	5 ... 15 min (depending on the sample)
Range:	0.01 ... 1000 ppm
Resolution:	0.1 µg abs., output signal linear
Sample volume:	0.01 ... 20 mL
Gas supply:	Internal pump or compressed air
Gas flow:	Up to 50 L/h
Power supply:	220 ... 230 V/50 Hz, 2 A
Power consumption:	100 W
Type of protection:	IP 54
Dimensions:	600 x 370 x 720 mm (W x D x H)
Weight:	30 kg

## We are here for you



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