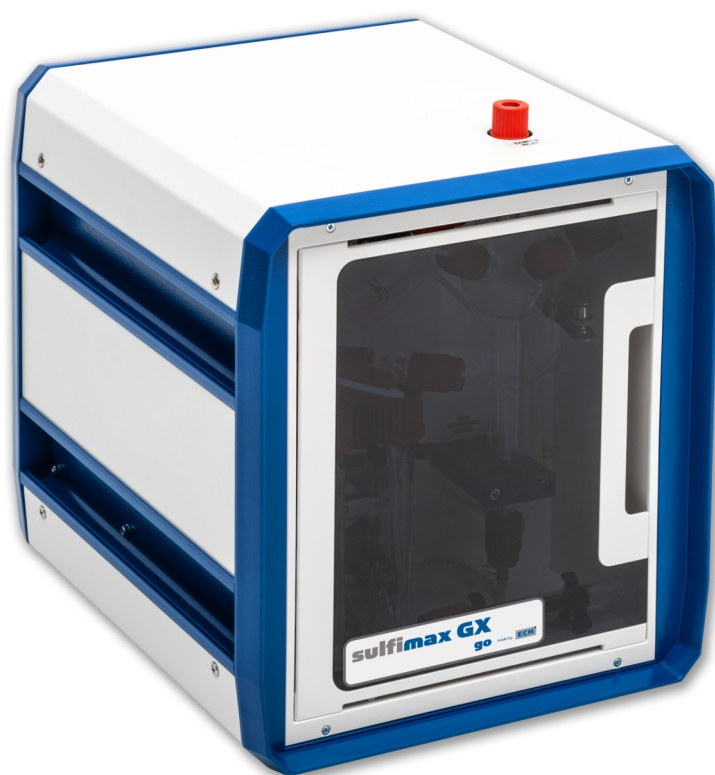


# Hydrogen sulphide in liquids and gases

Conform to standard DIN 38405-27



**sulfimax GX**  
go

made by **ECH**

# sulfi**max** GX

## go

## Hydrogen sulphide in liquids and gases

Conform to standard DIN 38405-27

### Product description

The **Sulfi**max** GX Go** determines hydrogen sulphide and volatile sulphides in liquids and gases.

The sample can be dispensed directly by syringe without pretreatment.

By effective gas extraction the H<sub>2</sub>S is completely expelled from the sample.

Interferences due to the sample matrix practically do not occur.

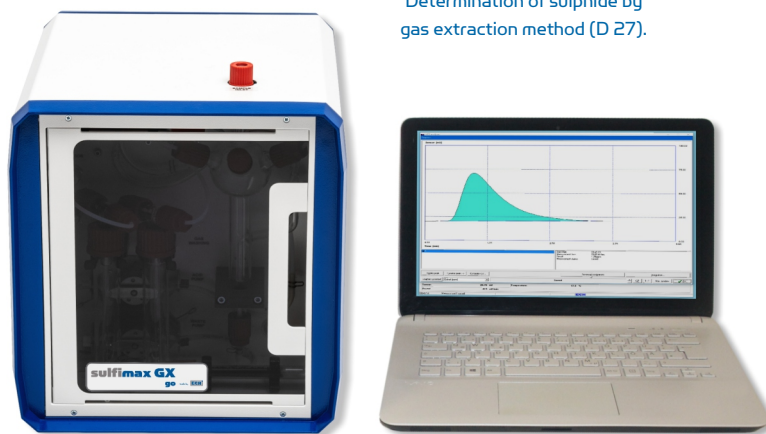
The released H<sub>2</sub>S gas is conducted to the highly sensitive sensor, which detects H<sub>2</sub>S in the range of 0.01 to 10,000 ppm.

A typical measurement takes 5 min, depending on the sample composition.

If the **Sulfi**max** GX Go** is extended with the optionally available H<sub>2</sub>S Headspace Module, solid and pasty samples can also be measured.

The Sulfi**max** GX Lab fulfils the requirements of the standard DIN 38405-27: German standard methods for the examination of water, waste water and sludge - Anions (group D) - Part 27:

Determination of sulphide by gas extraction method (D 27).



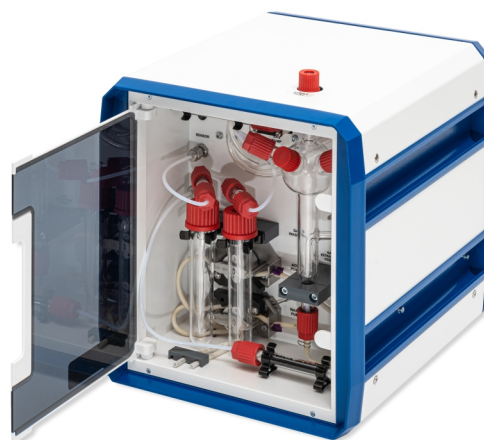
**Sulfi**max** GX Go** - compact version with small footprint

### Applications

- Water, drinking water, surface water
- Municipal wastewater
- Industrial wastewater
- Monitoring of landfill-leachate
- Gas analysis (e. g. LNG, LPG)
- H<sub>2</sub>S in hydrocarbon mixtures
- Investigation of technical and pharmaceutical products (e. g. storage stability)
- Quality management

### Advantages

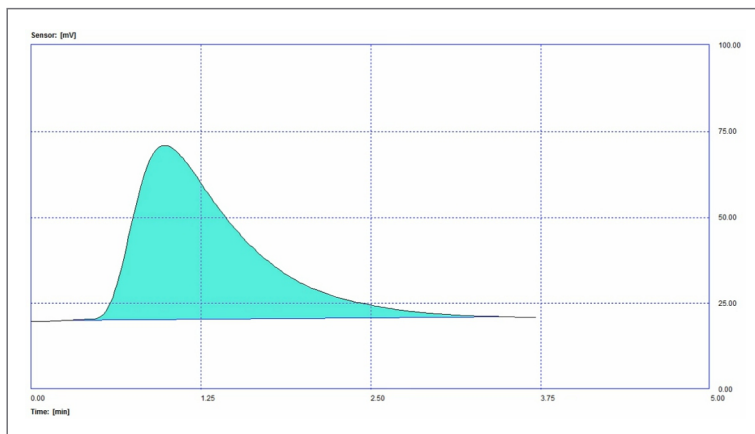
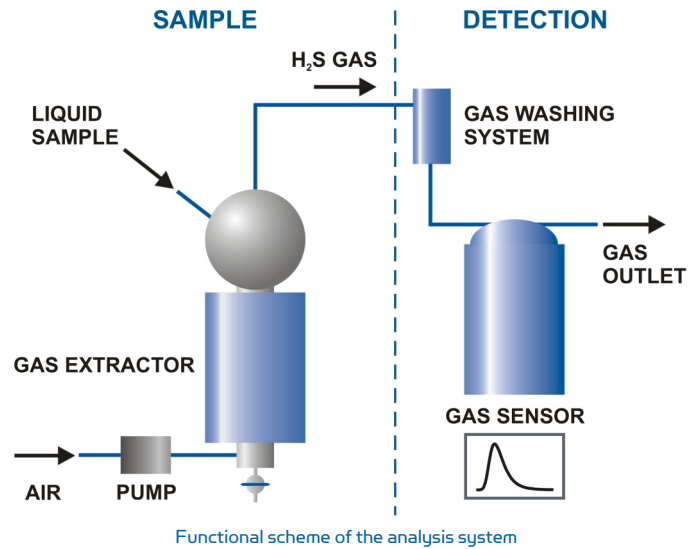
- Analysis of the original sample
- No sample preparation
- Minimized cross sensitivity through the indirect method
- Suitable for on-site use



**Sulfi**max** GX Go** - interior view

## Features and Results

- Complete separation of  $H_2S$  from the sample by effective gas extraction
- Simple calibration
- Software: simple, clear, intuitive
- Dosing manually by syringe
- Definition of own methods for device control
- Typical measuring time 5 min (depending on sample properties)



Typical measurement - automatic peak analysis / interpretation

Result overview

Meas	File name	Sample name	Sample amount	Result
1	2017110200	Standard 5 ppm	1.000 ml	5.02 $\mu$ g
2	2017110201	Standard 5 ppm	1.000 ml	4.81 $\mu$ g
3	2017110203	Standard 5 ppm	1.000 ml	4.96 $\mu$ g
4	2017110207	Standard 5 ppm	1.000 ml	4.98 $\mu$ g
5	2017110208	Standard 5 ppm	1.000 ml	4.93 $\mu$ g

Evaluation of sub measurements

Statistics

Arithmetical mean: 4.94  $\mu$ g  
Standard deviation: 0.08  $\mu$ g  
Rel. standard deviation: 1.58 %

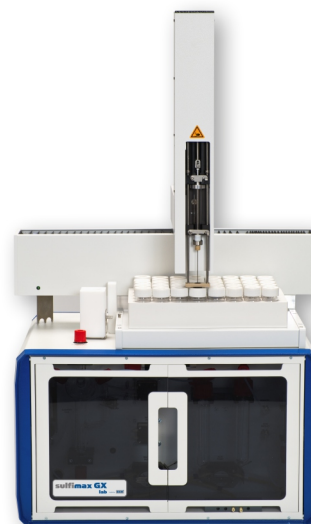
Value table...

OK Cancel Help

Table of results of a multi measurement

## Technical specifications

Measuring range:	0.01 ... 10,000 ppm (dependent on sample volume)
Resolution:	0.1 µg abs., output signal linear
Measuring duration:	2 ... 10 min (dependent on the sample), usually 5 min
Sample volume:	0.01 ... 20 mL
Gas flow:	Up to 50 L/h
Power supply:	230 V/50 Hz, 115 V/60 Hz
Power input:	150 W
Dimensions:	260 x 310 x 300 mm (W x D x H)
Weight:	8 kg
Data connection:	RS 232 / USB (with converter)
Device control:	PC software (PC not included in the scope of delivery)



Laboratory version **Sulfimax GX Lab** with autosampler for liquids

## H<sub>2</sub>S Headspace Module

### Extension module for solid and pasty samples

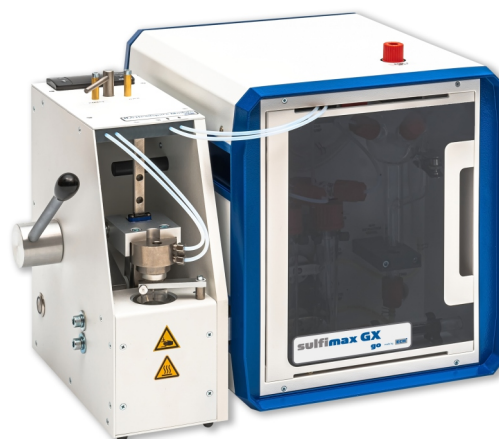
The determination of volatile hydrogen sulphide (H<sub>2</sub>S) in solid and pasty samples is easily possible with this module.

It is connected directly to the selective **Sulfimax GX Go** and can be operated by anyone.

The sample is heated isothermally without pretreatment in a sealed headspace vessel and analyzed.

Applications:

- Solid samples, e. g. elemental sulfur, sludge, bitumen
- Liquid samples like waste water with sludge particles
- Pasty samples
- Soil samples and waste



**Sulfimax GX Go** with connected H<sub>2</sub>S Headspace Module

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