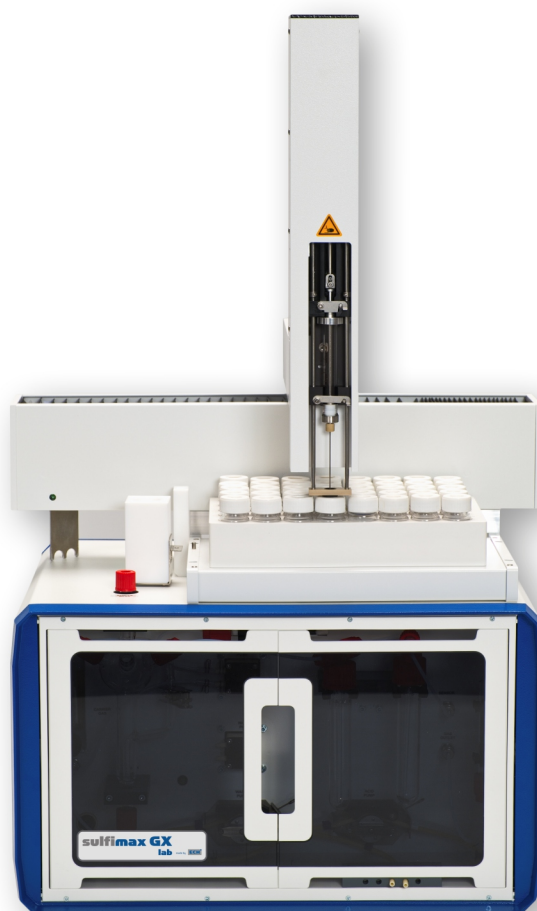


Hydrogen sulphide in liquids and gases

Conform to standard DIN 38405-27



sulfimax GX
lab

made by **ECHⁱ**

sulfixmax GX lab

Hydrogen sulphide in liquids and gases

Conform to standard DIN 38405-27

Product description

The **Sulfixmax GX Lab** determines hydrogen sulphide and volatile sulphides in liquids and gases.

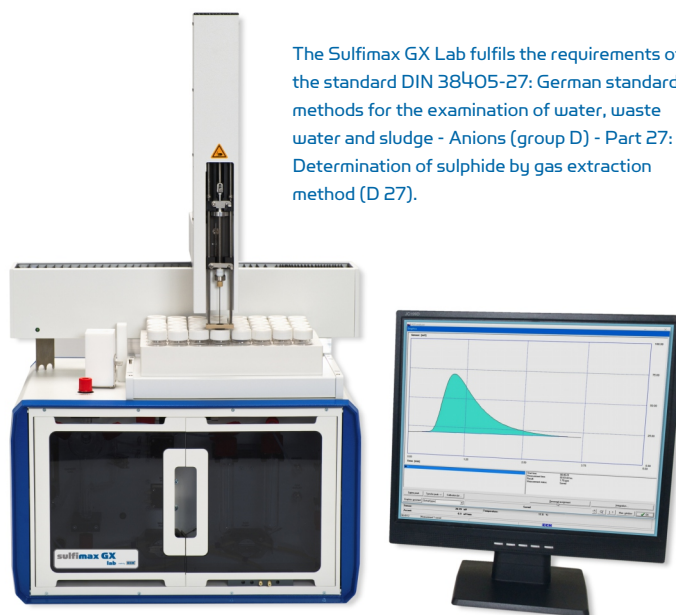
The sample can be dosed directly without pretreatment - manually by syringe or in the automatic version by autosampler.

By effective gas extraction the H₂S is completely expelled from the sample. Interferences due to the sample matrix practically do not occur.

The released H₂S gas is conducted to the highly sensitive sensor, which detects H₂S in the range of 0.01 to 10,000 ppm.

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

If the **Sulfixmax GX Lab** is extended with the optionally available H₂S Headspace Module, solid and pasty samples can also be measured.



The Sulfixmax 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).

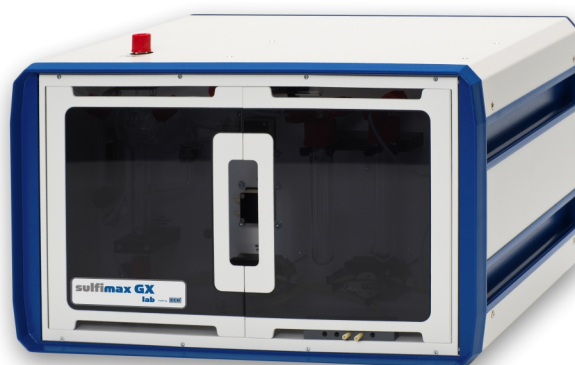
Sulfixmax GX Lab as automatic version with autosampler for liquids

Applications

- Water, drinking water, surface water
- Municipal wastewater
- Industrial wastewater
- Monitoring of landfill-leachate
- Gas analysis (e. g. LNG, LPG)
- H₂S in hydrocarbon mixtures
- Investigation of technical and pharmaceutical products (e. g. storage stability)
- Quality management

Advantages

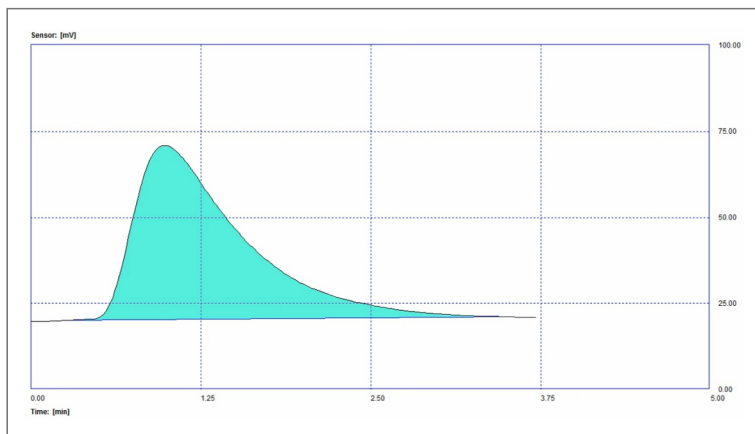
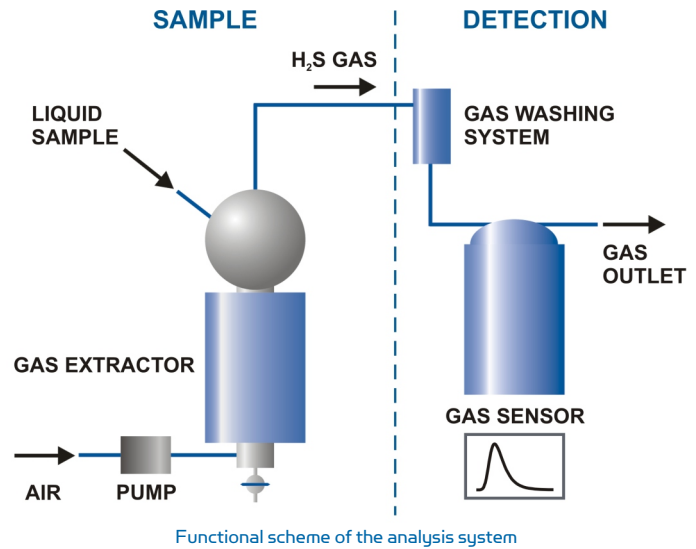
- Analysis of the original sample
- No sample preparation
- Dosing manually or optional fully automatic
- Minimized cross sensitivity through the indirect method



Sulfixmax GX Lab as manual version

Features and Results

- Complete separation of H_2S from the sample by effective gas extraction
- Simple calibration
- Software: simple, clear, intuitive
- 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 μ g
2	2017110201	Standard 5 ppm	1.000 ml	4.81 μ g
3	2017110203	Standard 5 ppm	1.000 ml	4.96 μ g
4	2017110207	Standard 5 ppm	1.000 ml	4.98 μ g
5	2017110208	Standard 5 ppm	1.000 ml	4.93 μ g

Evaluation of sub measurements

Statistics

Arithmetical mean: 4.94 μ g
 Standard deviation: 0.08 μ g
 Rel. standard deviation: 1.58 %

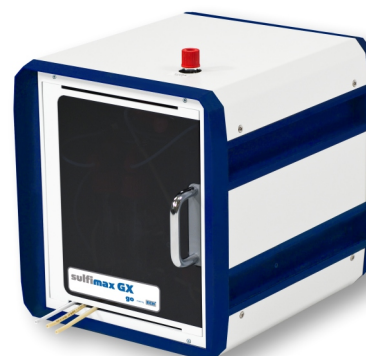
Value table...

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:	480 x 390 x 290 mm (W x D x H)
Weight:	11 kg
Data connection:	RS 232 / USB (with converter)
Device control:	PC software (PC not included in the scope of delivery)



Compact version **Sulfimax GX Go**
for on-site use

H₂S Headspace Module

Extension module for solid and pasty samples

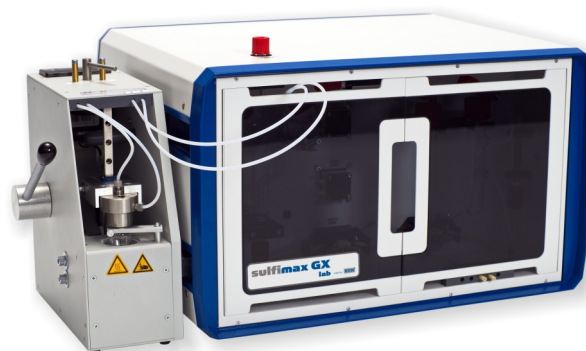
The determination of volatile hydrogen sulphide (H₂S) in solid and pasty samples is easily possible with this module.

It is connected directly to the selective **Sulfimax GX Lab** 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 Lab with connected H₂S Headspace Module

Book your online demo in the ECH Studio

ECH Scientific have a state of the art laboratory fitted with online presentation capabilities, allowing us to bring product demonstrations live and in full HD, with multiple camera angles and software sharing capabilities enabling us to deliver a full demo experience remotely. Please contact info@echscientific.com to book your session.

ECH Elektrochemie Halle GmbH

Otto-Eißfeldt-Str. 8
D-06120 Halle (Saale)
Germany

Tel.: +49 (0) 345 279570-0
Fax: +49 (0) 345 279570-99

Email: info@echscientific.com • www.ech.de • www.aquamaxkf.com

ECH Scientific Limited

Building 69, Wrest Park, Silsoe
Bedfordshire, MK45 4HS
United Kingdom

Tel.: **+44 (0) 1525 404747**
Fax: +44 (0) 1525 404848



SCIENTIFIC

part of ECH Elektrochemie Halle
Global Sales Division

the ECH advantage

in-lab | mobile | on-line | process