

sulfixmax GX

H₂S Headspace Module

H₂S determination in solid and pasty samples

Product description

The determination of volatile hydrogen sulphide (H₂S) in solid and pasty samples is now very easy. The selective H₂S analysis system Sulfimax GX of the ECH is extended with a manual headspace module.

The sample is filled into a glass vial and heated in the headspace module. Depending on the sample type, the heating temperature can be varied from 30 to 180 °C. The volatile H₂S is transported through the gas circulation to the sensor in the Sulfimax GX and measured there. Very low H₂S concentrations are detectable. Sample preparation is not necessary.

Due to the short determination times, high sample throughputs are possible. The compact and robust device can be easily operated by anyone.

Applications

H₂S analysis systems from ECH, coupled with the Headspace Module allow the measurement of:

- solid samples, e. g. elementary sulphur, sludge, bitumen,
- liquid samples such as wastewater with sludge particles,
- pasty samples,
- soil samples and waste



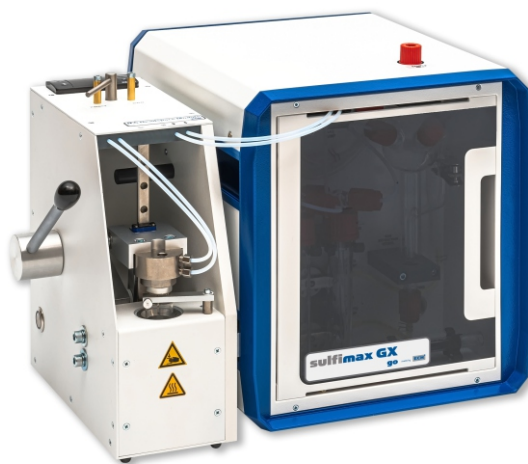
Analysis of solid and pasty samples containing H₂S

Advantages

- Easy connection to the Sulfimax GX Lab and Go
- No sample preparation necessary for solid samples
- Very low H₂S concentrations detectable
- Manually operated and robust measuring system
- Easy handling for everyone



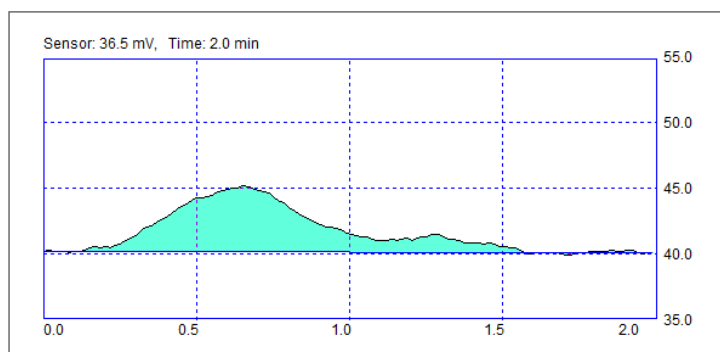
H₂S Headspace Module for coupling to Sulfimax GX analysis systems of ECH



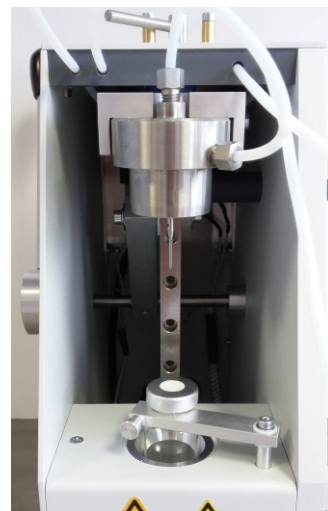
Sulfimax GX Go with connected H₂S Headspace Module

Features and Results

- Measurement of the sample in the sealed 20 mL vial - no contact of the sample with components of the analysis system
- Gas extraction technique for rapid release and separation of H₂S from the sample
- Temperature control from 30 to 180 °C
- Measuring time from 2 to approx. 15 min, depending on the H₂S content of the sample
- Double-needle system for gas transfer
- Bypass circuit for continuous gas flow



Determination of volatile H₂S from bitumen by headspace technique



Sealed sample vial in the H₂S Headspace Module

Technical specifications

Sample type:	solid, pasy and high viscous
Sample volume:	0.01 ... 20 mL (g)
Heating temperature:	30 ... 180 °C
Temperature resolution:	0.1 °C
Heating method:	isothermally
Power supply:	230 V
Power input:	100 W
Dimensions:	130 x 270 x 290 mm (W x H x D)
Weight:	5 kg



Sulfimax GX Lab with coupled H₂S Headspace Module and autosampler for liquid samples

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