

GasEye H2S - extractive H2S vapor analyzer



GasEye H2S is the hydrogen sulfide vapor analyzer. Suitable for emission monitoring and process control. 24/7 continuous operation. No sample preparation. No zero drift. No field calibration. Low cost of ownership.

Features

- H2S ranges **0-50 ppmv / 0-1000 ppmv**
- Process temperature **0-650 °C**
- **Real time sensing** – response time below 1 second
- **High selectivity** – no interference from other constituents in the gas sample
- **High sensitivity** – detection limit below 1 ppm
- **Maintenance free** – equipped with a self-calibrating feature, no field calibration necessary
- **ATEX** version available

Example Applications

- Petrochemical industry
- Chemical industry
- Paper industry

Application type: Hydrogen Sulfide CD 75.01.01_AAA

Analytical performance

H2S concentration measurement range: 0 – 50 ppmv (standard)

Detection limit: 1 ppmv @STP and 3 sec response time

Precision: 1 ppm or 2% of the measured value, whichever is larger @STP and 3 sec response time

Accuracy: 1 ppm*m or 2% of the measured value, whichever is larger @STP and 3 sec response time

Gas conditioning: Dry, oil free and particle free sample process

Calibration: factory calibration using certified gas

Zero drift and span drift: negligible

Electric characteristics

Power input: 24 VDC nominal (19 - 30 VDC)

Power consumption: < 25VA

Dynamic performance

Warm-up time: approx. 5 minutes

Minimum response time (T90): 100 milliseconds

Electric inputs and outputs

Inputs: 4 x digital input (24 VDC, 10 mA)

Outputs: 2 x analog output (4-20 mA, concentration and transmission)

4 x digital output (30 VDC, 0.5 A, NO/NC, relay)

Modbus TCP/IP or RTU (optional)

Profinet (optional)

Service port TCP/IP

Customer interface

User communication with the instrument is established by the following means:

1. Optional:
Local user interface (LUI) – LCD display located on the front side of the central unit
2. Optional (Ethernet based):
 - WebServer application – web interface for
 - Windows based program – GasEye logger for real time data acquisition

Mechanical specification

Degree of protection: IP20 to EN 60529

Process connection: 6 mm tubing

Cell process windows: Sapphire

Dimensions: 177 x 440 x 500 mm

Weight: 15 kg

Materials: Housing: aluminum
Internal process cell: Stainless steel 316

Climatic conditions

| | |
|----------------------|--------------------------|
| Ambient temperature: | 5°C to 45°C |
| Ambient pressure: | 800 - 1200 hPa |
| Ambient humidity: | RH < 90%, non-condensing |

Measurement conditions

| | |
|-------------------------|-------------|
| Sample gas pressure: | 0.05-1 barg |
| Sample gas temperature: | ambient |

Safety

Low Voltage Directive (LVD) 2014/35/EU



- PN-EN 61010-1:2011
- Laser radiation: Laser Class I product acc. to PN-EN 60825-1:2014-11

EMC Directive 2014/30/EU

- EN 61326-1:2013

RoHS Directive 2011/65/EU

ATEX Directive 2014/34/EU

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