

Hazardous Area Online Process Hydrogen Sulfide Analyzer w/ Sample System
ATEX and IECEx Certified for Hazardous Areas



Optional Configurations:

- Sample System Add-On Components
- Bi-Directional RS485 Modbus RTU
- Extreme Weather Packaging
- Extended Temperature Ranges

Applications:

- Natural Gas Extraction & Pipelines
- Natural Gas Processing
- Landfill Gas Monitoring
- Biogas before and after the H2S Scrubber
- And Many Other Industrial Applications

"Inquiry for Application Expertise"

- Precision Electrochemical H2S Sensor
- Designed for Natural gas & Biogas Applications
- F.S. Ranges of 0 - 10 ppm up to 0 - 10000 ppm
- Cost Effective and Low Maintenance
- Large Backlit Display
- Intuitive User Friendly Interface
- Optional MODBUS RS485 RTU
- 2 Fully Configurable Alarm Relay Contacts

Specifications:

Accuracy:	< +/-1% Full Scale Range*
Alarms:	2 Configurable Relay Contacts
Analyzer Range:	Multiple up to 0 - 10000 ppm
Area Classification:	Zone 1 IIB + H2
Dimensions:	12" x 12" x 5.25"
Flow:	0.50 - 5.0 SCFH
Gas Connections:	1/4" Compression Tube
Output:	Isolated 4 - 20mA or 1 - 5 VDC
Power:	12 - 24 VDC 100 - 240 VAC
Pressure	0.1 - 50 PSIG Inlet, vent to atm
Response Time:	T90 in 45 Seconds
Sample System:	Optional
Sensor:	Precision Electrochemical Cell
Temperature:	0 to 50 deg C
Warranty Sensor:	12 Months
Warranty Electronics:	12 Months
Weight:	21 lbs

*Accuracy at constant conditions

Cross Sensitivity

Sensor response per 100 ppm of gas present:	
Methyl Mercaptan:	40 ppm
Carbon Monoxide:	4 ppm
Hydrogen:	1 ppm
Sulfur Dioxide:	18 ppm

H2S Analyzer:

The model H2S-625 Hydrogen Sulfide analyzer combines a rugged design with SSO2's precision H2S sensors. The result is a highly reliable and cost effective compact design with an easy-to-use user interface designed specifically for the Natural Gas and biogas industries.

The oxygen analyzer is certified for use in Zone 1 IIB + H2 applications.

The H2S analyzer is isolated both on the power input and analog output. This eliminates most electronic gremlins seen with existing competitive equipment in the field.

Gas connections are made with 1/4" Compression tube fittings. Sample Systems includes Sample / Span valve and flow meter.

The H2S-625 analyzer comes with an optional MODBUS RS485 RTU Bi-Directional Communication protocol.

H2S Sensor Technology:

The H2S sensor used in the H2S-625 is based on the galvanic electrochemical fuel cell principal. All H2S sensors are manufactured under a strict quality program.

The sensors are self-contained and minimal maintenance is required - no need to clean electrodes or add electrolyte.

The Southland Sensing precision H2S sensors offer excellent performance, accuracy and stability while maximizing the expected life.

Power Requirements:

Input Power: 12 - 24 V DC
Current Draw: 50 mA
** Optional power input choices available

H2S Sensors:

H2S-1x PPM H2S Sensor: 0 - 200 Max PPM Range
H2S-2x PPM H2S Sensor: 0 - 2000 Max PPM Range
H2S-3x PPM H2S Sensor: 0 - 10000 MAX PPM Range

H2S sensors should be periodically calibrated. Factory recommendation is every 1 - 3 months or as the application dictates. Sensors offer excellent linearity when calibrated to a certified span gas.

Order Information:

Record Part Number with selected options in Blank Indicated Area of Form

Model Number:

H2S-625 H2S Analyzer

Selected Range & Sensor:

- 1 0 - 200 PPM; H2S-1x PPM H2S Sensor (Ranges: 0 - 10 ppm, 0 - 50 ppm, 0 - 100 ppm, 0 - 200 ppm)
- 2 0 - 2000 PPM; H2S-2x PPM H2S Sensor (Ranges: 0 - 100 ppm, 0 500 ppm, 0 - 1000 ppm, 0 - 2000 ppm)
- 3 0 - 10000 PPM; H2S-3x PPM H2S Sensor (Ranges: 0 - 1000 ppm, 0 - 2000 ppm, 0 - 5000 ppm, 0 - 10000 ppm)

Electronics Package:

- 4 12 - 24V DC Input Power
- 4M 12 - 24V DC Input Power + MODBUS RS485 RTU
- 7 100 - 240 VAC Input Power
- 7M 100 - 240 VAC Power + MODBUS RS485 RTU

Gas Connections:

- 4 1/4" Compression Tube Fittings with Sample / Span Valve & Flowmeter
- 6 6 mm Compression Tube Fittings with Sample / Span Valve & Flowmeter
- D Delete Sample / Span Valve & Flow Meter, 1/8" Compression Tube Fittings

H2S-625 - _____ - _____ - _____ Use This Part Number When Ordering

ATEX:

Southland Sensing Ltd.
4045 E. Guasti Rd. Suite 203, Ontario, CA 91761 USA
H2S-625 Series Hydrogen Sulfide (H2S) Analyzer

ExVeritas 23ATEX1653X

 II 2 G

Ex db ib IIB+H2 T4 Gb

Tamb -20°C to +50°C



IECEx:

Southland Sensing Ltd.
4045 E. Guasti Rd. Suite 203, Ontario, CA 91761 USA
H2S-625 Series Hydrogen Sulfide (H2S) Analyzer

IECEx EXV 23.0038X

 II 2 G

Ex db ib IIB+H2 T4 Gb

Tamb -20°C to +50°C

