

Hazardous Area Online Process Hydrogen Sulfide Analyzer w/Sample System



Optional Configurations:

- Customizeable Measurement Ranges
- Sample Conditioning Systems
- Bi-Directional RS485 Modbus ASCII
- Extreme Weather Packaging

Applications:

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

Designed for the Natural Gas Industry

Class 1, Div 2 Groups C, D

F.S. Ranges of 0 - 10 ppm up to 0 - 2000 ppm

Precision Electrochemical H2S Sensor

Large Backlight Display w/ Auto-Range

Intuitive User Friendly Interface

Cost Effective and Low Maintenance

MODBUS RS485 ASCII (Optional)

Specifications:

Accuracy:	< +/-1% Full Scale Range*
Analyzer Range:	Multiple up to 0 - 2000 ppm
Area Classification:	Class 1, Div 2, Groups C, D
Dimensions:	11.25" x 12.0" x 5.50"
Flow:	0.5 - 2.0 SCFH
Gas Connections:	1/4" Compression Tube
Output:	Isolated 4 - 20mA or 1 - 5 VDC
Power:	12 - 24 VDC
Pressure:	0.1 - 50 PSIG Inlet, vent to atm
Response Time:	T90 in 45 Seconds
Sensor:	Precision Electrochemical Cell
Temperature:	0 to 50 deg C
Warranty Sensor:	12 Months
Warranty Electronics:	12 Months
Weight:	12.5 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

"Inquiry for Application Expertise"

H2S Analyzer:

The model H2S-150-NG 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 interface designed specifically for the Natural Gas Industry.

The H2S analyzer is designed to meet the standards for Class 1, Div 2, Groups C, D.

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.

H2S Sensor Technology:

The H2S sensor used in the H2S-150-NG 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

H2S Sensors:

H2S-1x PPM H2S Sensor: 0 - 200 MAX PPM Range
H2S-2x PPM H2S Sensor: 0 - 2000 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-150-NG Hydrogen Sulfide Analyzer (Includes Analyzer, Sample / Span Valve, Flow Meter with Valve)

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) |

Electronics Package:

- | | |
|---|---|
| 4 | 12 - 12V DC Input Power w/ Isolated Analog Outputs |
| M | 12 - 24V DC Input Power w/ Isolated Analog Outputs + MODBUS RS485 ASCII |

Gas Connections:

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

H2S-150-NG - _____ - _____ - _____ Use This Part Number When Ordering

Configurable Online Wall Mount Hydrogen Sulfide Analyzer



F.S. Ranges of 0 - 10 ppm up to 0 - 2000 ppm

Precision Electrochemical H2S Sensor

Large Backlight Display w/ Auto-Range

Intuitive User Friendly Interface

Cost Effective and Low Maintenance

MODBUS RS485 ASCII (Optional)

Optional Configurations:

- Customizeable Measurement Ranges
- Sample Conditioning Systems
- Bi-Directional RS485 Modbus ASCII
- Extreme Weather Packaging

Applications:

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

Specifications:

Accuracy:	< +/-1% Full Scale Range*
Analyzer Range:	Multiple up to 0 - 2000 ppm
Area Classification:	General Purpose
Approval:	CE Certified
Dimensions:	9.5" x 6.5" x 3.8"
Flow:	0.5 - 2.0 SCFH
Gas Connections:	"Multiple Options"
Output:	4 - 20mA and 0 - 10 V DC
Power:	12 - 24 VDC
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

*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

"Inquiry for Application Expertise"

H2S Analyzer:

The model H2S-150 Hydrogen Sulfide analyzer combines a rugged design with SSO2's precision H2S sensors. The result is a highly reliable and cost effective compact design an with easy-to-use interface designed specifically for the Natural Gas Industry.

The H2S analyzer is CE Certified and designed for outdoor installations requiring an IP66 / NEMA4X rated enclosure.

Gas connections are made with Compression tube fittings and available in 1/8", 1/4" or 6mm. Optional sample systems available and configured based on application needs.

The analyzer comes in 2 different configurations. Standard 6-wire (12 - 24VDC input, 4 - 20mA and 0 - 10VDC Analog Output), or 6-wire with Bi-Directional MODBUS RS-485 ASCII.

H2S Sensor Technology:

The H2S sensor used in the H2S-150 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

H2S Sensors:

H2S-1x PPM H2S Sensor: 0 - 200 MAX PPM Range
H2S-2x PPM H2S Sensor: 0 - 2000 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-150 Hydrogen Sulfide 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)

Electronics Package:

- 4 12 - 12V DC Input Power w/ Isolated Analog Outputs
- M 12 - 24V DC Input Power w/ Isolated Analog Outputs + MODBUS RS485 ASCII

Gas Connections:

- 8 1/8" Compression Tube Fittings
- 6 6mm Compression Tube Fittings
- 4 1/4" Compression Tube Fittings

H2S-150 - _____ - _____ - _____ Use This Part Number When Ordering

Hazardous Area Online Process Hydrogen Sulfide Analyzer w/ Sample System



Designed for the Natural Gas Industry

Class 1, Div 1 Groups B, C, D

F.S. Ranges of 0 - 10 ppm up to 0 - 2000 ppm

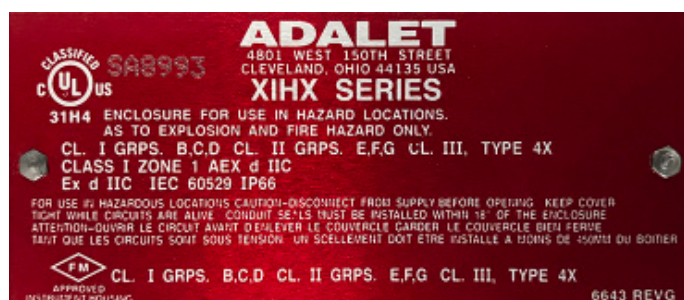
Precision Electrochemical H2S Sensor

Large Backlit Display

Intuitive User Friendly Interface

Cost Effective and Low Maintenance

2 Fully Configurable Alarm Relay Contacts



Optional Configurations:

- Customizeable Measurement Ranges
- Sample Conditioning Systems
- Bi-Directional RS485 Modbus RTU
- Extreme Temperature Heated Enclosure

Applications:

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

Specifications:

Accuracy:	< +/-1% Full Scale Range*
Alarms:	2 Configurable Relay Contacts
Analyzer Range:	Multiple up to 0 - 2000 ppm
Area Classification:	Class 1, Div 1, Groups B,C,D
Dimensions:	15.25" x 12.5" x 5.25"
Flow:	0.25 - 5.0 SCFH
Gas Connections:	1/4" Compression Tube
Output:	Isolated 4 - 20mA or 1 - 5 VDC
Power:	12 - 24 VDC
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:	18.5 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

"Inquiry for Application Expertise"

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 Industry.

The H2S analyzer is designed to meet the standards for Class 1, Div 1, Groups B, C, D.

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

H2S Sensors:

H2S-1x PPM H2S Sensor: 0 - 200 Max PPM Range
H2S-2x PPM H2S Sensor: 0 - 2000 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)

Electronics Package:

- 2 12 - 24V DC Input Power
- M 12 - 24V DC Input Power + MODBUS RS485 RTU

Gas Connections:

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

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

Portable PPM Hydrogen Sulfide Analyzer with Data Logging & Sample System



Designed for the Natural Gas Industry

Large Backlit Display w/ User Friendly Menu

Data Log via Removable USB Flash Drive

Integral Flow Control Valve & Flow Indicator

Continuous Analysis during Charging

Electrochemical Sensor Technology

The H2S-780 Hydrogen Sulfide Analyzer combines a rugged portable design with SSO2's precision H2S sensors. The result is a highly reliable and cost effective design with an easy-to-use interface.

The analyzer comes a removable USB flash drive for data logging via .CSV (Excel) file format. With an 8GB USB Flash Drive, you can data log at 1 minute intervals for about 50 years before running out of storage. The low full scale range and flexibility to easily access data makes this analyzer unmatched in the market.

The display of the analyzer is designed to be used in direct sunlight. No need to bring a shade or other method to see the screen.

Two H2S Sensors are available for the H2S-780. The H2S-1x is pre-loaded for 4 ranges: 0 - 10ppm, 0 - 50ppm, 0 - 100ppm, 0 - 200ppm. The H2S-2x is preloaded for 4 ranges: 0 - 100ppm, 0 - 500ppm, 0 - 1000ppm, 0 - 2000ppm.

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

Specifications

Accuracy:	< +/- 1% of Full Scale Range*
Analysis Range:	Multiple up to 2000 PPM
Battery Indicator:	Integrated into Large Display
Calibration:	Periodically
Data Logging:	Removable USB Flash Drive
Dimensions:	10.9 x 10.0 x 4.9 inch
Display:	Large with Backlight
Enclosure:	Brushed Stainless Steel
Flow Sensitivity:	0.25 - 5 SCFH
Gas Connections:	1/8" Compression Tube
Output (Analog):	0 - 1V DC
Power:	Rechargeable Battery 100 - 240 VAC AC Adapter
Pressure:	Inlet, 0 - 50 PSIG
Response Time:	T90 in 45 Seconds
Sample System:	Flow Control, Flow Indicator
Sensor:	Precision Electrochemical
Sensor Life:	12 - 36 months
Temperature:	0 - 50 deg C
Temperature Compensation:	Integral
Warranty:	12 months
Weight:	11.25 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

Applications

Natural Gas Extraction & Pipelines

Natural Gas Processing

Landfill Gas Monitoring

Biogas before And After The H2S Scrubber

And Many Other Industrial Applications

Sensor Options

H2S-1x 0 - 200 ppm H2S Sensor

H2S-2x 0 - 2000 ppm H2S Sensor

Optional Accessories

ENC-640 Carrying case with foam insert

PP-640 Integral sampling pump