

Hazardous Area Online Process Hydrogen Sulfide Analyzer w/Sample System



- Designed for the Natural Gas Industry
- Class 1, Div 2 Groups C, D
- Full Scale Range's 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)
- 2 - Wire Loop Configuration (Optional)



Optional Configurations:

- Customizable 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:	< +/-2% 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 60 Seconds
Sample System:	Optional
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

"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 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 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.

Cross Sensitivity:

Response to Methyl Mercaptan: 40% of actual concentration.

Response to Sulfur Dioxide: 18% of actual concentration.

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 Oxygen Analyzer (Includes Analyzer, Sample / Span Valve, Flow Meter with Valve)

H2S-150-NG-D Oxygen Analyzer (Delete Sample System, 1/8" Compression Tube Gas Fittings)

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
- 2 2 - Wire Loop Configuration
- 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