

## Hazardous Area Online Process Hydrogen Sulfide Analyzer w/Sample System



### 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

"Inquiry for Application Expertise"

Designed for the Natural Gas Industry

Class 1, Div 2 Groups C, D

F.S. Ranges of 0 - 10 ppm up to 0 - 10000 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 - 10000 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

## 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-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-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)
- 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 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