## **H2S-625 H2S Analyzer**

Product Specification Sheet

## 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-625 H2S Analyzer

# **Product Specifications**

#### **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:**

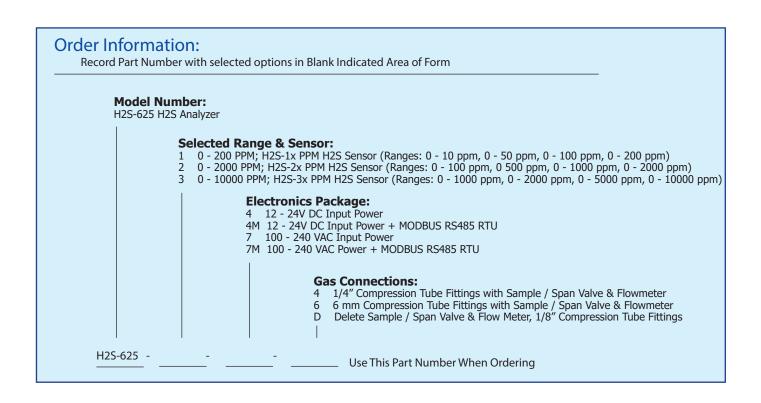
Input Power: 12 - 24 V DC Current Draw: 50 mA

\*\* 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.



# H2S-625 H2S Analyzer

# **Product Certifications**

#### **ATEX:**

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

ExVeritas 23ATEX1653X

**(€x)** II 2 G

Ex db ib IIB+H2 T4 Gb

Tamb  $-20^{\circ}$ C to  $+50^{\circ}$ 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

**⟨£x**⟩ II 2 G

Ex db ib IIB+H2 T4 Gb

Tamb -20°C to +50°C

