

## Envent 330S-EX

### H<sub>2</sub>S & Total Sulfur Analyzer

The Model 330S-EX H<sub>2</sub>S analyzer utilizes field proven tape-based measurement technology that provides a linear and interference-free output of H<sub>2</sub>S. An optional Total Sulfur measurement can be added to the analyzer. Certified for II 2 G EX d bib op is IIB+H2 T3 Gb 0°C ≤ Tamb ≤ 50°C.

#### Features

- Fast Response times Rapid Response Algorithm (RRA) ~ 20 seconds to alarm
- No interference from other components in the sample
- Low power consumption
- Extended tape life of 60 to 90 days
- Measures up to 5 times the calibrated range
- Quick Delivery
- Full field service & training available

#### Application Flexibility

The model 330S-EX measures H<sub>2</sub>S and/or Total Sulfur in natural gas, petrochemical streams, condensate, water, or LPG. Common applications include:

- Sales Gas
- Plant Inlet
- Acid Gas
- Fuel Gas Monitoring
- Bio Gas
- Pipeline Monitoring & Blending
- H<sub>2</sub>S Scavenger Systems
- Wellhead Monitoring

#### User Interface

I.C.E. (Integrated Configuration Environment) is a Windows based program that accompanies all Envent Analyzers for full configurability

- Field friendly interface via front display panel
- Easily configurable alarm processor and calculation processor
- 3 Mb event triggered archive storage
- Alarm/Event log
- Customizable serial RS-232 & RS-485 mapping
- Remote Display (optional)
- Communications including 4 – 20 mA outputs, alarm outputs, solenoid drivers, serial Modbus, and Modbus TCP/IP (optional)

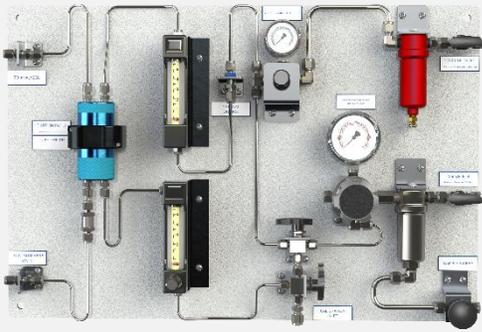


Envent Model 330S-EX  
H<sub>2</sub>S Analyzer



Envent Model 330S-EX with Standard  
Sample Conditioning and Total Sulfur  
Oven





Permeable Membrane Dilution System for Measuring High Range H<sub>2</sub>S and Total Sulfur Samples



Envent Model 330S-EX Analyzer

## Specifications

### Analysis Method

Hydrogen Sulfide measured as per ASTM D-4084

### Power

12 – 24 VDC @ less than 3 watts or 100 – 240 VAC, 50/60 Hz  
(300 Watts when total sulfur option is included)

### Electrical Classification

330S-EX: II 2 G EX d bib op is IIB+H<sub>2</sub> T3 Gb 0°C ≤ Tamb ≤ 50°C

### Ambient

0°C to 50°C (32°F to 122°F). Consult factory for other requirements

### Output Ranges

Standard Ranges: 0 – 10 ppm, 0 – 20 ppm, 0 – 100 ppm (other ranges available upon request)

Concentration ranges above 0 – 400 ppm require a dilution system

#### H<sub>2</sub>S:

Accuracy

< 1 ppm  
1 ppm – 200 ppm  
> 200 ppm

Repeatability

Consult Factory  
+/- 1.5% F.S.  
+/- 2% F.S. [with dilution]  
+ 0.5% for 2<sup>nd</sup> Sensor Measurements [SDS Models\*]

### Accuracy / Repeatability

#### TS:

< 1 ppm  
2 ppm – 400 ppm  
> 400 ppm

Consult Factory

+/- 2% F.S.  
+/- 2.5% F.S. [with dilution]  
+ 0.5% for 2<sup>nd</sup> Sensor Measurements [SDS Models]

\* Note: SDS Models do not support ppb applications

### Inputs

Four digital inputs are individually configurable for pressure switches, temperature switches, or flow switches.

### Outputs

2 Analog Outputs  
4 Solenoid Drivers  
4 Serial Ports  
4 Relay Outputs  
1 Ethernet Port (Optional)

### Display

128 x 64 Graphic Display  
Menu is scrolled by internal button or external magnet

### Dimensions

330S-EX  
17.4"W x 32.7"H x 13.7"D (442 W x 831 H x 348 D mm)

### Configuration Software

The 330S is mounted on a 24"W x 36"H x ¼" thick anodized panel  
Windows based software for customer configuration, archive retrieval, and Modbus mapping.

\* Product specifications subject to change without notice to improve reliability, function, design or otherwise

## Optional Equipment

### Ethernet Card

Expansion board to provide TCP Modbus via Ethernet

### Total Sulfur

Total sulfur furnace converts all sulfur compounds to H<sub>2</sub>S, which allows analyzer to measure Total Sulfur as per ASTM D4468

### Stream Switching

Maximum 2 streams, or H<sub>2</sub>S/TS 1 Stream

### Dilution

Above 10%, please contact Envent to discuss available options

### Liquid Sampling

Liquid sample system to measure H<sub>2</sub>S in Hydrocarbon liquids or water

### Custom Systems

Envent can design custom integrated systems to meet application requirements

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