

## Model 330S-EX and 330SDS-EX

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

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

#### Features & Benefits

- Fast Response times using Rapid Response Algorithm (RRA) ~20 seconds to alarm
- No interference from other components in the sample
- Low power consumption < 3 Watts
- Extended tape life of 60-90 days
- Measures up to 5 times the calibrated range
- Customized sample conditioning systems

#### Application Flexibility

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

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

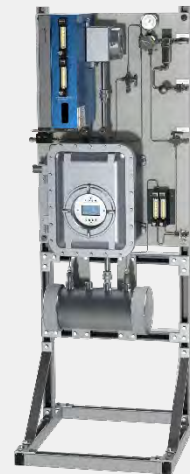
#### User Interface

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

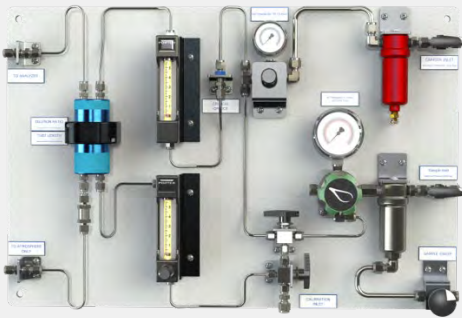
- Field friendly interface via front display panel
- Easily configurable alarm processor and calculation processor
- 3 Mb event triggered archive storage
- Alarm/Event log
- Customizable serial RS-232 & RS-485 mapping
- Remote Display (optional)
- Numerous modes of communication including 4-20mA outputs,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



330SDS-EX Standard Sample Conditioning System



330SDS-EX H<sub>2</sub>S Total Sulfur



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



Envent Model 330S-EX Analyzer Open

## Specifications

<b>Analysis Method</b>	Hydrogen Sulfide measured as per ASTM D-4084
<b>Power</b>	12–24 VDC @ less than 3 watts or 100-240 VAC, 50/60Hz (300Watts when total sulfur option is included)
<b>Electrical Classification</b>	330S-Ex/330SDS-Ex: II 2 G EX db ib op is IIB+H2 T3 Gb 0°C ≤ Tamb ≤ 50°C
<b>Ambient</b>	0°C to 50°C (32°F to 122°F). Consult the factory for other requirements.
<b>Output Ranges</b>	Standard Ranges: 0-5ppm to 0-100ppm, higher ranges with dilution available upon request. A dilution system is recommended with ranges over 150ppm. Custom Ranges: ppb levels and >150ppm to 30%
<b>Response time</b>	20 seconds to alarm.
<b>Accuracy</b>	+/- 1.5% full scale for ranges 1 to 50 ppm
<b>Repeatability</b>	+/- 1.5% full scale for ranges 1 to 50 ppm
<b>Inputs</b>	Four digital inputs individually configurable.
<b>Outputs</b>	2 Analog Outputs 4 Solenoid Drivers 4 Serial Ports 4 Relay Outputs 1 Ethernet Port (Optional)
<b>Displays</b>	128 x 64 Graphic Display; Menu is scrolled by internal button or external magnet
<b>Dimensions</b>	330S-EX 17.4"W x 32.7"H x 13.7"D (44.2 W x 83.1 H x 34.8 D cm) The 330S is mounted on a 24"W x 36"H x 1/4" (60.96 W x 91.4 H x 0.635 L cm) thick anodized panel.
<b>Configuration Software</b>	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

<b>SDS Dual Sensor</b>	SDS Analyzers can measure two variables or streams simultaneously.
<b>Total Sulfur</b>	Total Sulfur furnace converts all sulfur compounds to H <sub>2</sub> S, which allows analyzer to measure Total Sulfur as per ASTM D4468.
<b>Auto Calibration</b>	Allows user to initiate a calibration based on time or external switch.
<b>Stream Switching</b>	Allows switching of up to four (4) input streams or from H <sub>2</sub> S to Total Sulfur measurement.
<b>Dilution</b>	Allows measurements up to 30% H <sub>2</sub> S using permeable membrane dilution.
<b>Liquid sampling</b>	Liquid sample system to measure H <sub>2</sub> S in Hydrocarbon liquids or water.
<b>Custom systems</b>	Envent can design custom integrated systems to meet application requirements.
<b>H<sub>2</sub> Saver Mode</b>	Solenoid utilized Hydrogen saving option to reduce hydrogen consumption by measuring Total Sulfur on a timed basis.

### Canadian Office

2721 Hopewell Place NE  
Calgary, Alberta, Canada T1Y 7J7  
Phone: 403-253-4012 / Toll Free: 877-936-8368  
Email: info@envent-eng.com

### USA Office

13219 B Stafford Road  
Missouri City, Texas, USA 77489  
Phone: 713-568-4421 / Toll Free: 877-936-8368  
Email: usasales@envent-eng.com

### International Sales

Phone: 403-253-4012  
Email: international@envent-eng.com