









Envent Model 330SDS and 331SDS

Dual Sensor H₂S & Total Sulfur Analyzer

The Model 330SDS/331SDS H_2S Analyzer utilizes field proven tape-based technology that provides a linear and interference-free output of H_2S on two streams simultaneously. An optional Total Sulfur measurement can be added to the analyzer as one of the streams, allowing for simultaneous H_2S and Total Sulfur measurement on a common stream. Certified for Class I, Division 1 Groups C and D (330SDS) and Class I, Division 2, Groups C and D (331SDS).

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 less than 3 Watts
- Extended tape life of 60 to 90 days
- Measures up to 5 times the calibrated range
- Fast Delivery
- Full field service & training available

Application Flexibility

The Model 330SDS/331SDS measures H_2S and/or Total Sulfur in natural gas, petrochemical streams, condensate, liquids, or LPG. Common applications include:

- Sales Gas
- Plant Inlet
- Pipeline Monitoring & Blending
- H2S Scavenger Systems
- Wellhead Monitoring
- Acid Gas
- Fuel Gas Monitoring
- Biogas

User Interface

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

- Field friendly interface via front display panel without need for a laptop
- 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 4-20mA outputs, alarm outputs, solenoid drivers, serial Modbus, and Modbus TCP/IP (Optional Ethernet)

Additional Advantages

- Customized sample conditioning system
- Analytical accessories: Sample Probes, Heated Bundles and Enclosures



Envent Model 331SDS



330SDS Standard Sample Conditioning System with Open Deck Lid











Permeable Membrane Dilution System for Measuring High Range H₂S Samples



330SDS H₂S and Total Sulfur Analyzer with Auto-Calibration in Stainless Steel Enclosure

Specifications

Analysis Method Hydrogen Sulfide measured as per ASTM D-4084

12-24 VDC @ less than 3 watts or 100-240 VAC, 50/60Hz Power

(300Watts when total sulfur option is included)

Electrical 330S: Class I, Division 1 Groups B C & D. 331S: Class I, Division 2 Groups B C & D. Classification

0°C to 50°C (32°F to 122°F). Consult the factory for other **Ambient**

requirements.

Standard Ranges: 0-5ppm to 0-100ppm, higher ranges with dilution **Output Ranges**

available upon request. A dilution system is recommended with

ranges over 150ppm.

Custom Ranges: ppb levels and >150ppm to 30%

Response time 20 seconds to alarm.

Accuracy +/- 1.5% full scale for ranges 1 to 50 ppm +/- 1.5% full scale for ranges 1 to 50 ppm Repeatability Four digital inputs individually configurable. Inputs

Outputs 2 Analog Outputs

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

128 x 64 Graphic Display;

Displays Menu is scrolled by internal button or external magnet

Dimensions 330SDS 331SDS

> 17.4"W x 32.7"H x 13.7"D 15"W x 15"H x 8"L (44.2 W x 83.1 H x 34.8 D cm) (38.1Wx38.1Hx20.32Dcm)

Windows® based software for customer configuration, archive Configuration Software retrieval, and Modbus mapping.

*Product specifications subject to change without notice to improve reliability,

function, design or otherwise.

Optional Equipment

SDS Dual Sensor SDS Analyzers can measure two variables or streams simultaneously.

Total Sulfur Total Sulfur furnace converts all sulfur compounds to H₂S, which allows analyzer to measure Total Sulfur as per ASTM D4468.

Allows user to initiate a calibration based on time or external switch. **Auto Calibration**

Allows switching of up to four (4) input streams or from H₂S to Total Stream Switching

Sulfur measurement.

Dilution Allows measurements up to 30% H₂S using permeable membrane

Liquid sample system to measure H₂S in Hydrocarbon liquids or Liquid sampling

Envent can design custom integrated systems to meet application **Custom systems**

requirements.

Solenoid utilized Hydrogen saving option to reduce hydrogen H2 Saver Mode

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