Envent
Knowledge by Analysis

Envent 330SDS and 331SDS

Dual Sensor H_2S & Total Sulfur Analyzer

The Model 330SDS/331SDS H2S Analyzer utilizes field-proven tape-based technology that provides a linear and interference-free output of H2S on two streams simultaneously. An optional Total Sulfur measurement can be added to the analyzer as one of the streams, allowing for simultaneous H2S 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

- 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, water, 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 for full configurability.

- Field-friendly interface via front display panel without the 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 – 20 mA outputs, alarm outputs, solenoid drivers, serial Modbus, and Modbus TCP/IP (optional Ethernet)

Envent Model 331SDS H_2S Analyzer

Envent Model 330SDS with Standard Sample Conditioning

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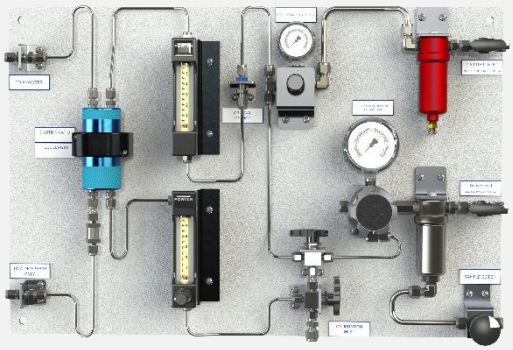

Permeable Membrane Dilution System for Measuring High Range H_2S Samples

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

Specifications

Analysis Method	Hydrogen Sulfide measured as per ASTM D-4084
Power	12 – 24 VDC @ less than 3 watts or 100 – 240 VAC, 50/60 Hz Total Sulfur Option Current (Steady State) Maximum: 2.6 A @ 100 - 240VAC
Electrical Classification	330SDS: Class I, Division 1 Groups B, C, D T3C (T4 option available upon request) 331SDS: Class I, Division 2 Groups B, C, D T3C (T4 option available upon request)
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
Accuracy / Repeatability	H2S: Accuracy — Repeatability < 1 ppm — Consult Factory 1 ppm – 200 ppm — +/- 1.5% F.S. (331S); +/- 2.0% F.S. (330S) > 200 ppm — +/- 2.0% F.S. [with dilution 331S] +/- 2.5% F.S [with dilution 330S] + 0.5% for 2nd Sensor Measurements TS: < 1 ppm — Consult Factory 1 ppm – 2 ppm — +/- 2.0% F.S. (331S); +/- 2.0% F.S. (330S) 2 ppm – 400 ppm — +/- 2.5% F.S [with dilution 331S] > 400 ppm — +/- 3.0% F.S [with dilution 330S] + 0.5% for 2nd Sensor Measurements * 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	330SDS: 17.4”W x 32.7”H x 13.7”D (442W x 831H x 348D mm) 331SDS: 15”W x 15”H x 8”D (381W x 381H x 203.2D mm)
Configuration Software	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 H2S, which allows analyzer to measure Total Sulfur as per ASTM D4468
Dilution	Above 10%, please contact Envent to discuss available options
Liquid Sampling	Liquid sample system to measure H2S in Hydrocarbon liquids or water
H2 Saver Mode	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
Email: canadasales@envent.com

USA Office
12560 Reed Road, Suite 200
Sugar Land, Texas, USA 77478
Phone: 713-568-4421
Email: usasales@envent.com

Mexico Office
Av. Revolución No. 1267,
Floor 19, Office 55
Mexico City, MX
Phone: +52 833 247 8260
Email: mexicosales@envent.com

International
Phone: 403-253-4012
Email: internationalsales@envent.com