

Envent 330S and 331S

H₂S & Total Sulfur Analyzer

The Model 330S/331S H₂S analyzer utilizes field proven tape-based measurement technology that provides a linear and interference-free output of H₂S. An optional Total Sulfur measurement can be added to the analyzer. Certified for Class I, Division 1 Groups B, C and D (330S) and Class I, Division 2, Groups B, C and D (331S).

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/331S measures H₂S 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
- H₂S 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 331S H₂S Analyzer



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





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	Specifications		
With the second seco	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: Class I, Division 1 Groups B, C, D 331S: Class I, Division 2 Groups B, C, D	
	Ambient	0°C to 50°C (32°F to 122°F). Consul	lt factory for other requirements
	Output Ranges	Standard Ranges: 0 – 10 ppm, 0 – 20 ppm, 0 – 100 ppm (other ranges available upor request) Concentration ranges above 0 – 400 ppm require a dilution system	
	Accuracy / Repeatability		
		H2S: Accuracy	Repeatability
		< 1 ppm 1 ppm – 200 ppm > 200 ppm	Consult Factory +/- 1.5% F.S. +/- 2% F.S. [with dilution] + 0.5% for 2 nd Sensor Measurements [SDS Models*]
		TS: < 1 ppm 2 ppm – 400 ppm > 400 ppm	Consult Factory +/- 2% F.S +/- 2.5% F.S [with dilution] + 0.5% for 2 nd 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)	
Envent Model 330S Analyzer	Display	128 x 64 Graphic Display Menu is scrolled by internal button or external magnet	
	Dimensions	330S 17.4"W x 32.7"H x 13.7" (442W x 831H x 348D mm)	331S 13"W x 15"H x 8"D (330.2W 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	· · ·	
	Total Sulfur	Total sulfur furnace converts all sulfur compounds to H2S, which allows analyzer to measure Total Sulfur as per ASTM D4468 Allows switching of up to four (4) input streams or from H2S to Total Sulfur	
	Stream Switching	measurement.	
331S H2S Analyzer with Standard Sampling System	Dilution	Above 10%, please contact Envent to discuss available options	
	Liquid Sampling	Liquid sample system to measure H2S in Hydrocarbon liquids or water	
	Custom Systems	Envent Can design custom integra	ted systems to meet application requirements
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