

Envent 331S Portable

H₂S Analyzer

The Model 331S Portable H₂S analyzer is designed as a spot-check H₂S analyzer solution. The 331S utilizes field-proven tape-based measurement technology that provides a linear and interference-free output of H₂S. Certified for Class I, Division 2, Groups B, C, and D*.

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 331S Portable comes in a rugged weatherproof transport case along with a standard sample system and can measure H₂S in natural gas. Common applications include:

- Sales Gas
- Plant Inlet
- 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 331S Analyzers for full configurability

- Field-friendly interface via the 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
- Communications including 4 – 20 mA outputs, alarm outputs, solenoid drivers, serial Modbus, and Modbus TCP/IP (optional)



Model 331S H₂S Analyzer



Model 331S H₂S Analyzer with Door Open



331S Transportable H₂S 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

Electrical Classification

Certified for Class I, Division 2 Groups B, C, D*

Ambient

0°C to 50°C (32°F to 122°F). Consult the 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.

> 200 ppm

+/- 2% F.S. [with dilution]

Inputs

Four (4) digital inputs individually configurable for pressure switches, temperature switches, or flow switches.

Outputs

Two (2) Analog Outputs

Four (4) Solenoid Drivers

Four (4) Serial Ports

Four (4) Relay Outputs

One (1) Ethernet Port (Optional)

Display

128 x 64 Graphic Display

Menu is scrolled by internal button or external magnet

Dimensions

31.59" x 20.47" x 12.45" (802 x 520 x 316 mm)

Configuration Software

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

Sample Pressure

5 – 2500 psig (35 – 176 kPa)

0 to 100°C (32 to 212°F)

*Door must be open during usage to maintain area classification and enclosure must be protected from environmental conditions

** Note: SDS models do not support ppb applications

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

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