



SS2100 SINGLE CHANNEL H₂S GAS ANALYZER

FOR NATURAL GAS
Product Code 10902

KEY FEATURES

- Low Maintenance, No Light Source or Probe Replacements, No Tape and No Carrier Gas
- Repeatable, fast measurements
- No field recalibration needed
- Simple design and installation; trouble free operation
- Reliable in harsh environments
- Sample conditioning and regulation in a compact package
- Also available in a 2-Pack and 3-Pack

Applications

- Transportation Pipeline & Sales Gas
- Raw Gas / Gathering
- Underground Storage
- Gas Processing, Dehydration & Sweetening

SpectraSensors SS2100 H₂S Measurement Analyzer measures hydrogen sulfide in natural gas quickly and reliably without light source aging, tape replacement or ongoing recalibration.

MINIMAL MAINTENANCE The SS2100 H₂S is perfect for remote or hazardous installations because its patented, laser based technology and requires very little annual maintenance. Factory set calibration last the full lifetime of the analyzer.

RELIABLE SpectraSensors analyzers are the first to offer truly dependable technology and simple operation for applications such as natural gas pipelines monitoring.

By its nature, the TDL (Tunable Diode Laser) detection method is not susceptible to aging effects. Excellent measurement repeatability between instruments compared to lab instruments makes the SS2100 H₂S analyzer the ideal measurement tool for even the most punishing of environments.

Sensitive enough to meet the needs of critical tariff applications, the analyzer has operating ranges of 0-10 ppmv to percent levels and repeatability as low as ±500 ppbv.



EASY OPERATION The SS2100 H₂S is remarkably easy to install; connect the power, the data link and the measured gas line and the analyzer begins working. Once set up, measurements begin within minutes.

VERSATILITY The SS2100 H₂S analyzer is available in many configurations. An optional measurement cell can be added to the analyzer for dual measurement H₂S specifications, see the SS2000 product sheets.

SS2100 Single Channel Hydrogen Sulfide Analyzer

SPECIFICATIONS

Application Data

Target Components	H ₂ S in Natural Gas
Typical Measurement Ranges	0-20 ppm*
Typical Precision	±500ppb
Measurement Update Time	2 seconds
Principle of Measurement	Tunable Diode Laser Absorption Spectroscopy
Environmental Temperature Range	-20° to 50° C (-4° to 122° F) -15° to 60° C (5° to 140° F) <i>optional</i>
Sample Inlet Pressure	130-340 kPaG (20-50 PSIG) to panel
Sample Cell Temperature Range	-20° to 50° C (-4° to 122° F) -15° to 60° C (5° to 140° F) <i>optional</i>
Maximum Cell Pressure	70kPaG (10 PSIG)
Sample Flow Rate	3 L/min (5.4 scfh)
Recommended Validation	Binary Cal Gas Bottle with Methane Background



Electrical Data

Voltage	100-240 VAC, 50-60 Hz
Max Current	2 amp maximum @ 120 VAC 1 amp maximum @ 240 VAC
Communication	4-20mA loop (concentration only), RS232 (all parameters)
Digital Outputs	2, 1 General Fault and 1 Hi/Lo Concentration Alarm
Modbus	Gould RTU, Daniel RTU or ASCII
LCD Display	Concentration, Cell Pressure and Temperature & Diagnostics

Physical

Enclosure Type	NEMA 4X – stainless steel <i>standard</i>
Dimensions	610 mm H × 1372 mm W × 330 mm D (24" H × 54" W × 13" D)
Weight	Approximately 91Kg (200lbs)
Sample Cell Construction	316L Series Polished Stainless Steel Standard
Number of Sample Cells	1 (2-cell or 3-cell systems available)

Area Classification

Certification	CSA Certified for Class I, Div. 2, Groups ABCD T3C
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* Typical shown; custom configurations available.