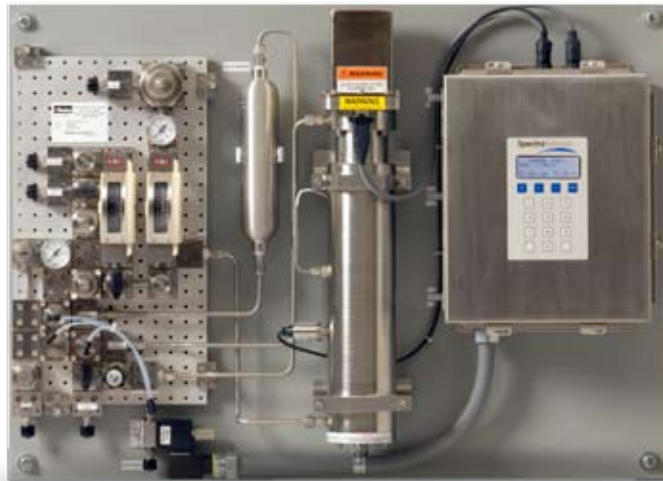




SS2100 HYDROGEN SULFIDE ANALYZER

KEY FEATURES

- Low Maintenance
- No hazardous waste disposal and no light source aging
- No ongoing recalibration
- Simple Design, Trouble Free Operation
- Repeatable, fast measurements
- Small Size / Foot Print
- Reliable in Harsh Environments
- Validation Available
- Sample Conditioning and Regulation in a compact package



SpectraSensors SS2100 Laser Based H₂S Analyzers help natural gas processors, LNG plants, refineries and chemical plants measure trace hydrogen sulfide in mixed hydrocarbon gases quickly and reliably with no hazardous waste or costly consumables.

MINIMAL MAINTENANCE The laser based technology is very reliable for remote or hazardous installations and requires very little maintenance. SpectraSensors analyzers work by direct measurement. There are no chemical reactions to generate, no calibrations needed, and no results to interpret.

RELIABLE SpectraSensors' analyzers work by direct measurement. By its nature, the TDL based H₂S detection method is not susceptible to aging effects, making its factory calibration a timeless constant. As a result, the factory calibration remains stable over the life of the analyzer.

Excellent measurement repeatability between instruments and as compared to lab instruments makes the SS2100 H₂S analyzer the ideal measurement tool for even the most punishing of environments.

The analyzer's lower detection limit is 1 ppm in natural gas and 2 ppm in mixed hydrocarbons with operating ranges from 0-10 ppmv to percent level and repeatability as good as ± 500 ppbv.

EASE OF OPERATION Designed to be plug-and-play, the analyzers are remarkably easy to install; just connect power, the data link, and the measured gas line and the analyzer begins working. Once set up, measurements are performed in seconds.

Analog and digital communications and alarm options are available as well as manual or automated H₂S validation stream switching.

SS2100 Hydrogen Sulfide Analyzer

Specifications



Application Data

Environmental Temperature Range	-20° to 50° C (-4° to 122° F)
Sample Inlet Pressure	70 kPaG (10 PSIG) max to analyzer 300-700 kPaG (50-100 PSIG) to panel
Sample Flow Rate	3 L/min (5.4 scfh)

Facilities & Communications

Input Voltage	100-240 VAC, 50-60 Hz Standard
Current	Up to 2 amps maximum @ 120 VAC Not including optional heater
Instrument Air Requirement	27-68 Kg (60-150 lbs), 5 cc/min (0.01 scfh) minimum
Communication Outputs	Generic or Modbus RS232 (all parameters) 4-20 mA loop (concentration)
LCD Display	Concentration, Cell Pressure and Temperature Diagnostic Data

Physical

Enclosure Type	NEMA 4X – Stainless Steel (typ.*)
Instrument Size	610 mm H × 860 mm W × 150 mm D (24" H × 33" W × 6" D) (typ.*)
Wetted Component Construction	316L Series Stainless Steel (typ.*)
Sample Conditioning	Inlet shutoff, particulate filter, membrane separation with bypass, regulation, sample and bypass flow meters**
Weight	Approximately 50 Kg (110 lbs)**

Typical Applications

Measurement Ranges	Mixed Hydrocarbon Streams 0-300 ppm Natural Gas Stream 0-20 ppm
Measurement Response Time	1 to ~20 sec**
Typical Repeatability	Mixed Hydrocarbon Streams ±1.75 ppm Natural Gas Stream ±500 ppb

Area Classification

Certification	CSA Class I, Division 2, Groups ABCD, Temp Code T3C, CE, ATEX Ex nA nL II T3 (Pending)
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*Typical Shown-custom configurations available. ** Application specific; consult factory.