



SS1000 PORTABLE H₂O GAS ANALYZER FOR NATURAL GAS

Application Code 10401

KEY FEATURES

- Virtually maintenance free
- No interference from glycol, methanol or amine contaminants (vapor phase)
- Fast and accurate real-time measurements
- No wet-up or dry-down delays
- Short term payback; no consumables
- NIST-traceable calibration

SpectraSensors SS1000 Portable

is a light weight, easy to handle, battery-powered H₂O analyzer, used to verify measurements and for spot-checking when other methods provide questionable results. In natural gas pipeline applications, poor quality measurement results are extremely costly. Additional processing or dehydration costs, upset conditions, shut-ins and inconsistent process results may be caused by sensors that do not perform properly. The SS1000 reveals poorly performing sensors, pinpoints high moisture and can be used as a standard for measurement validation.

RAPID RESPONSE TIME

The SS1000 allows for fast, simple operation. The analyzer's laser and detector take measurements 4 times per second and average the results. These real-time measurements are not hampered by wet-up (absorption) or dry-down (desorption) as with surfaced-based sensors.



RELIABLE

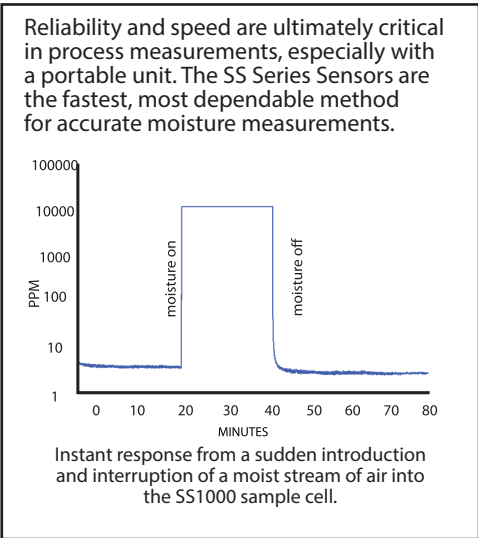
Using state-of-the-art laser technology developed by NASA, the SS1000 analyzer is more reliable, with greater repeatability than surface based sensors and is not subject to the interpretation errors of a chilled mirror.

NO INTERFERENCE

As with all SpectraSensors analyzers, the SS1000 combines a patented laser with control electronics and "smart" software. The analyzer's sensor heads are not subjected to corrosives or contaminants in the gas because the sensor is isolated from the sample gas stream. The result is an analyzer which does not suffer from contamination or drift due to vapor impurities such as glycol, methanol, amines, hydrogen sulfide, or mercaptans.

PAYBACK

The SS1000 very quickly pays for itself by eliminating the cost of consumables, extra sensor heads, factory calibrations, labor, and overhead associated with excessive maintenance. Expensive problems caused by unreliable gas measurements such as added processing steps and poor gas quality can be eliminated.



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SS1000 Portable Moisture Analyzer



SPECIFICATIONS

Application Data

Target Components	H ₂ O in Natural Gas	
Typical Measurement Ranges	Medium Precision 40-422 ppmv, 40-1055 ppmv, 40-2110 ppmv (2-20 lbs, 2-50 lbs, 2-100 lbs/MMscf)	High Precision 0-422 ppmv, 0-1055 ppmv, 0-2110 ppmv (0.5-20 lbs, 0.5-50 lbs, 0.5-100 lbs/MMscf)
Typical Repeatability	±10 ppmv or ±2% of reading	±4 ppmv or ±2% of reading
Measurement Response Time	0.25-2 seconds	
Principle of Measurement	Tunable Diode Laser Absorption Spectroscopy	
Environmental Temperature Range	-20° to 50°C (-4° to 122°F)	
Sample Cell Pressure Range	700-1400 mbara	
Sample Cell Temperature Range	-20° to 50°C (-4° to 122°F)	
Maximum Cell Pressure	70kPag (10 PSIG)	
Sample Flow Rate	0.1-10 L/min (0.2 to scfh)	
Recommended Validation	Bureau of Mines Chilled Mirror	

Electrical Data

Power Supply	100-240 VAC, 50-60 Hz - <i>standard</i> 12-Volt, Sealed Lead-Acid Battery Approx. 8 hours usage time per charge
Max Current	0.5A @ 120 VAC during recharging
Controller to Cell Cable Length	1 m - <i>standard</i> (3 m, 5 m & 10 m - <i>optional</i>)
Communication	RS232C - all parameters
LCD Display	Concentration, Cell Pressure and Temperature & Diagnostics

Physical

Dimensions	Nominal 200 mm H × 175 mm W × 450 mm D (8 × 7 × 18 inches)
Weight Approximately	Approx. 6.8 kg (15 lbs)
Sample Cell Dimensions	438 mm H x 108 mm W (17¼ H x 4¼ W inches)
Sample Cell Construction	316L Series Polished Stainless Steel - <i>standard</i>
Number of Sample Cells	1

Area Classification

Certification	Non-Hazardous (certified) locations - General Purpose
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