

SS1000 portable moisture analyzer

Fast, simple operation ideal for measurement verification in natural gas pipelines



Benefits:

- Lightweight, portable, and easy to handle
- Battery-powered for easy and reliable spot-checking
- Fast and accurate real-time measurements with no wet-up or dry-down delays
- No contamination or drift due to vapor impurities such as glycol, methanol, amines, hydrogen sulfide, or mercaptans

Specs at a glance

- **Measured Variables** Concentration Dew Point Cell Pressure Cell Temperature
- **Hazardous area approvals** None

More information and current pricing:

www.casc.endress.com/SS1000

Field of application: The SS1000 is a lightweight, portable, battery-powered analyzer trusted to verify H₂O measurements and provide spot-checking. In natural gas pipeline applications, poor quality measurements are extremely costly. Additional processing or dehydration costs, upset conditions, shut-ins and inconsistent process results are caused by sensors that do not perform properly. The SS1000 reveals poorly performing sensors, pinpoints high moisture, and is used as a standard for measurement validation.

Features and specifications

H₂O

Measuring principle

TDLAS

H2O

Product Headline

Portable, light weight, easy to handle, and battery-powered moisture (H2O) analyzer, used to verify measurements and for spot-checking when other methods provide questionable results. The sensor measures gas using Tunable Laser Diode Absorption Spectroscopy (TDLAS) to determine the concentration of the gas without coming into physical contact with the stream.

Channels

1

Analyte and Measurement ranges

H2O (Moisture): 0-100 to 0-5000 ppmv

Measured Variables

Concentration
Dew Point
Cell Pressure
Cell Temperature

Ambient Temperature range

-20 to 50°C (-4 to 122°F)

Operating Pressure range

Inlet Pressure: 140-350 kPa (20-50 psig)
Sample Cell: 700-1400 mbara

Analyzer Wetted materials

316L Stainless Steel
FKM O-Rings
Glass

Power supply

100-240 VAC, 50-60 Hz - standard 12-Volt
Sealed Lead-Acid Battery
Approx. 8 hours usage time per charge
0.5 Amps @ 120 VAC during recharging

H2O

Communication

Analog Output: 1 or 2 4-20mA Isolated, 1200 ohms @ 24 VDC max load (optional)

Serial: RS232C

Protocol: Modbus Gould RTU or Daniel RTU or ASCII

Housing materials

Anodized Aluminum

Hazardous area approvals

None

Degree of protection

None

More information www.casc.endress.com/SS1000