

# SS500E



More information and current pricing:

[www.au.endress.com/SS500E](http://www.au.endress.com/SS500E)

## Benefits:

- Accurate, real-time measurements
- Virtually maintenance-free, reliable in harsh environments
- Fast and accurate 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
- Analog and serial outputs for remote monitoring with heated and unheated stainless steel sample conditioning enclosures with NEMA 4X system rating
- Low cost of ownership with no consumables
- CSA certified, Class 1, Division 2

## Specs at a glance

- **Measured Variables** Concentration Dew Point Cell Pressure Cell Temperature
- **Hazardous area approvals** CSA Class I, Division 2 CSA Class I, Zone 2

**Field of application:** The SS500e single channel H<sub>2</sub>O analyzer is extremely reliable and tailored to the needs of the natural gas industry. The sensor measures gas using patented tunable diode laser absorption spectroscopy (TDLAS) technology to determine the concentration of the gas without coming into physical contact with the stream.

## Features and specifications

H2O

Measuring principle

TDLAS

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## H2O

**Product Headline**

An economical gas analyzer for moisture (H2O) in the natural gas industry. 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. Includes a heated enclosure for the sample conditioning system. Option of a simple sample conditioning system to reduce complexity of the analyzer.

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**Channels**

1

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**Analyte and Measurement ranges**

H2O (Moisture): 5-422 to 5-2110 ppmv

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**Measured Variables**

Concentration  
Dew Point  
Cell Pressure  
Cell Temperature

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**Ambient Temperature range**

-20 to 50°C (-4 to 122°F)  
Optional: -10 to 60°C (14 to 140°F)

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**Operating Pressure range**

Inlet Pressure: 140-350 kPa (20-50 psig)  
Sample Cell: 700-1400 mbara or 700-1700 mbara (optional)

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**Analyzer Wetted materials**

316L Stainless Steel  
FKM O-Rings  
Glass

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H2O

**Power supply**

100-240 VAC, 50-60 HZ

OR

18-24 VDC - optional

1 Amp maximum @ 120 VAC , 1.6 Amps @ 24 VDC (unheated)

2 Amps maximum @ 120 VAC (heated)

**Communication**

Analog Output: Two 4-20mA Isolated, 1200 ohms @ 24 VDC max load

Serial: RS232C - standard, RS485 and Ethernet - optional

Protocol: Modbus Gould RTU or Daniel RTU or ASCII

Digital Outputs: 2, General Fault and Concentration/Assignable Alarm

**Housing materials**

Electronics: 304 or 316L Stainless Steel

Sample System Enclosure: 304 or 316L Stainless Steel

**Hazardous area approvals**

CSA Class I, Division 2

CSA Class I, Zone 2

**Degree of protection**

Type 4X

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