

SS500E



More information and current pricing:

www.casc.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 H₂O 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

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.

Channels

1

Analyte and Measurement ranges

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

Measured Variables

Concentration
Dew Point
Cell Pressure
Cell Temperature

Ambient Temperature range

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

Operating Pressure range

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

Analyzer Wetted materials

316L Stainless Steel
FKM O-Rings
Glass

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

More information www.casc.endress.com/SS500E