

## SS500 moisture analyzer

Extremely reliable and tailored to the needs of the natural gas industry



More information and current pricing:

[www.endress.com/SS500](http://www.endress.com/SS500)

### Benefits:

- Economical real-time moisture 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
- NIST-traceable calibration with analog and serial outputs for remote monitoring
- CSA certified for CSA Class 1, Division 2 or Class 1, Division 1

### 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:** Using patented tunable diode laser spectroscopy (TDLAS) technology, the SS500 analyzer is an economical choice for measuring H<sub>2</sub>O concentration in natural gas without coming into physical contact with the stream. The result is a sensor that does not suffer from contamination or drift due to vapor impurities such as glycol, methanol, or amines.

### Features and specifications

H<sub>2</sub>O

Measuring principle

TDLAS

H<sub>2</sub>O**Channels**

1

**Analyte and Measurement ranges**H<sub>2</sub>O (Moisture):

5 to 422 ppmv (minimum)

5 to 2110 ppmv (maximum)

**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 to 350 kPa (20 to 50 psig)

Sample Cell: 700 to 1400 mbara

**Analyzer Wetted materials**

316L stainless steel

FKM O-Rings

Glass

**Power supply**

100 to 240 VAC, 50 to 60 Hz

or

9 to 16 VDC or 18 to 32 VDC - optional

1 Amp maximum at 120 VAC

1.6 Amps at 24VDC, 3.2 Amps at 12 VDC

## H2O

### Communication

Analog Output: 1 or 2 4-20mA Isolated, 1200 ohms at 24 VDC max load

Serial: RS232C

Protocol: Modbus Gould RTU or Daniel RTU or ASCII

Alarms: 2, General Fault and Concentration Alarms via Modbus and Analog Output(s)

### Housing materials

Electronics: 304 stainless steel (Class I Division 2)

Sample System Panel: anodized aluminum

### Hazardous area approvals

CSA Class I, Division 2

CSA Class I, Zone 2

### Degree of protection

Type 3R (Class I Division 2)

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