

# Digital oxygen sensor Oxymax COS22D

Memosens amperometric oxygen sensor for standard, hygienic and sterile applications



More information and current pricing:

[www.si.endress.com/COS22D](http://www.si.endress.com/COS22D)

## Benefits:

- Reliable, long-term stability and linear measurement
- Low-maintenance design
- Suitable for CIP/SIP and autoclaving
- Unique hygienic design (EHEDG)
- USP class VI
- Approved for hazardous area use

## Specs at a glance

- **Measurement range** 0.001 to 20 mg/l 0 to 200 %SAT 0 to 400 hPa
- **Process temperature** -5 to 135 °C (23 to 275 °F)
- **Process pressure** 1 to 12 bar abs (14.5 to 174 psi)

**Field of application:** The Oxymax COS22D safeguards your products, process and plant equipment from oxygen influences. It measures reliably over a wide range helping you to better monitor and control your applications. The sensor is low-maintenance and ensures long-term stability - even with frequent sterilization and autoclaving. Thanks to Memosens digital technology, COS22D combines maximum process and data integrity with simple operation. It enables lab calibration and facilitates predictive maintenance.

## Features and specifications

Oxygen

### Measuring principle

Amperometric oxygen measurement

## Oxygen

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### Application

Beverage, pharmaceuticals, biotechnology, water treatment, process, chemical, inertization

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### Installation

Standard process connection Pg 13.5  
Installation in standard pH assemblies possible

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### Characteristic

Digital or analog sensor for long-term stable oxygen measurement for frequent sterilization and autoclaving  
CO<sub>2</sub> compatible trace sensor for the beverage industry  
Trace sensor in the power plant sector

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### Measurement range

0.001 to 20 mg/l  
0 to 200 %SAT  
0 to 400 hPa

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### Measuring principle

Amperometric measurement of oxygen

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### Design

Membrane-covered 2-electrode oxygen sensor with teflon-membrane, stainless steel sensor

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### Material

Sensor body: stainless steel 1.4435  
Membrane: PTFE coated stainless steel net with a silicone coating

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### Dimension

Diameter: 12 mm (0.47 inch)  
Shaft length: 120, 225, 360 and 420 mm  
(4.72, 8.86, 14.2 and 16.5 inch)

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### Process temperature

-5 to 135 °C (23 to 275 °F)

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## Oxygen

### Process pressure

1 to 12 bar abs (14.5 to 174 psi)

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### Temperature sensor

Integrated NTC temperature sensor

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### Connection

Memosens-connection head

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### Additional certifications

Material certification 3.1  
EHEDG Type EL Class I

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