

Digital oxygen sensor Memosens COS51E

Memosens 2.0 amperometric oxygen sensor for the wastewater industry and utilities



Več informacij in aktualne cene:

www.si.endress.com/COS51E

Prednosti:

- **Wide measuring range:** The amperometric measuring principle and cathode design make the sensor suitable for all wastewater applications from industrial to municipal plants.
- **High accuracy:** Thanks to its amperometric, three-electrode design, the sensor provides long-term stable measurement with low drift.
- **Increased plant availability:** Memosens technology and Liquiline transmitters enable plug & play for fast commissioning and sensor exchange.
- **Non-contact, inductive signal transmission** ensures maximum process integrity.
- **Memosens 2.0 digital technology** makes the sensor ready for predictive maintenance and IIoT services since it offers extended storage of calibration and process data.

Lastnosti na dlani

- **Measurement range** 0.01 to 100 mg/l 0.00 to 1000 %SAT 0 to 2000 hPa
- **Process temperature** -5 to 60 °C (20 to 140 °F)
- **Process pressure** Max. 5 bar abs (Max. 72.5 psi abs)

Področje uporabe: Memosens COS51E is perfectly suited for all wastewater and utility applications including hazardous areas. The sensor is highly accurate and moisture-resistant ensuring the safety of your processes. COS51E features Memosens 2.0 digital technology. It is able to store more calibration and process data and thus provides the perfect basis for predictive maintenance and IIoT services. Designed to be low-maintenance with a long operating life, the sensor offers outstanding value for money.

Lastnosti in specifikacije

Oxygen

Merilni princip

Amperometric oxygen measurement

Application

Typical applications are:

- Wastewater treatment plants: oxygen control in aeration basin, process water treatment and monitoring
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 - Water plants: status monitoring of drinking water, water quality monitoring in rivers, lakes or seas
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 - Utilities of all industries: Oxygen control in biological treatment, process water treatment and monitoring.
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Characteristic

Digital amperometric 3-electrode longterm-stable sensor to measure dissolved oxygen

Measurement range

0.01 to 100 mg/l

0.00 to 1000 %SAT

0 to 2000 hPa

Measuring principle

Measuring principle

Design

Design

Material

Sensor shaft: POM

Membrane cap: POM

Working electrode: Gold

Counter and reference electrode: silver/silver halide

Membrane: ETFE (COS51-TN), FEP (COS51-TF)

Oxygen

Dimension

Diameter: 40mm (1.57 inch)

Shaft length: 146 mm (5.74 inch)

Process temperature

-5 to 60 °C

(20 to 140 °F)

Process pressure

Max. 5 bar abs

(Max. 72.5 psi abs)

Temperature sensor

NTC 30k

Ex certification

With ATEX, IECEx, CSA C/US, NEPSI, JapanEx and INMETRO approval for use in Zone 0, Zone 1 and Zone 2 hazardous areas. With CSA C/US approval also in Class I Division 1 hazardous areas in the Gas Ex area. Additionally suitable for Class I Division 2.

Connection

Inductive, contactless connection head with Memosens 2.0 technology

Ingres protection

IP 68

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