

# Digital chlorine dioxide sensor Memosens CCS50E

Memosens sensor for drinking water, process water and multi-industry utilities



## Benefits:

- Wide measuring range: From trace measurement up to chlorine dioxide concentrations of 200 mg/l.
- Easy installation: sensor can be installed in the modular Flowfit CYA27 assembly or in immersion assemblies and faster polarization time with the new Memosens 2.0 technology.
- Fast response time provides accurate process view and enables prompt reaction to process changes as well as efficient process control.
- Increased process safety: precise and long-term stable measurement ensures consistent process monitoring and allows for lowest disinfectant concentration.
- More process up-time thanks to fast sensor exchange: precalibrate the sensor in your lab and then swap it into your process with plug & play.
- Easy combination with other relevant parameters of liquid analysis thanks to connection to the Liquiline multiparameter transmitter.

More information and current pricing:

[www.endress.com/CCS50E](http://www.endress.com/CCS50E)

## Specs at a glance

- **Measuring range** Trace: 0 to 5 mg/l ClO<sub>2</sub> Standard: 0 to 20 mg/l ClO<sub>2</sub> High: 0 to 200 mg/l ClO<sub>2</sub>
- **Process temperature** 0 to 55 °C , non-freezing (32 to 130 °F)
- **Process pressure** Max. 2 bar abs (Max. 29 psi abs)

**Field of application:** Easy chlorine dioxide measurement with the robust, low maintenance sensor Memosens CCS50E. The sensor provides fast and stable measured values in utilities, drinking water and process water. It is used to ensure efficient disinfection for highest water quality and safety, and to avoid overdosing of chlorine dioxide. Furthermore, the absence of ClO<sub>2</sub> in beverage plants and reverse osmosis can be

monitored. Benefit from maximum data integrity and simple operation with the Memosens 2.0 technology.

## Features and specifications

### Disinfection

#### Measuring principle

Chlorine dioxide

#### Application

Adequate disinfection in drinking water, preventing of pathogen formation in cooling water systems, water used to wash pre-packaged vegetables, ensures the absence of chlorine dioxide in beverage systems

#### Characteristic

Amperometric measurement of dissolved chlorine dioxide

#### Measuring range

Trace: 0 to 5 mg/l ClO<sub>2</sub>

Standard: 0 to 20 mg/l ClO<sub>2</sub>

High: 0 to 200 mg/l ClO<sub>2</sub>

#### Measuring principle

Closed, membrane covered measuring cell

Reduction of chlordioxide (ClO<sub>2</sub>) to chloride at the cathode with appr. 120mV

#### Design

Closed amperometric 2-electrode measuring cell with PVDF membrane

#### Material

Sensor shaft: POM

Membrane: PVDF

Membrane cap: PVDF

#### Dimension

Diameter: 25 mm (0.98 inch)

Length: 161 mm (6.34 inch)

## Disinfection

### Process temperature

0 to 55 °C , non-freezing  
(32 to 130 °F)

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### Process pressure

Max. 2 bar abs  
(Max. 29 psi abs)

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### Temperature sensor

10k NTC integrated (Memosens)

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### Connection

Inductive, digital connection head with Memosens

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