

# Digital ozone sensor Memosens CCS58D

## Memosens sensor for drinking water, wastewater and process water in all industries



More information and current pricing:

[www.be.endress.com/CCS58D](http://www.be.endress.com/CCS58D)

### Benefits:

- Almost exclusive specificity for ozone ensures reliable measured values for safe disinfection processes.
- Robust membrane technology guarantees high surfactant resistance and optimum suitability for cleaning processes such as bottle cleaning.
- Integrated Heartbeat Technology provides, for example, an electrolyte counter for predictive, application-specific maintenance intervals.
- Connection to the Liquiline multiparameter transmitter allows for easy combination with other relevant parameters of liquid analysis such as pH and ORP.
- Fast commissioning is ensured by factory-calibration and plug & play installation of the sensor.

### Specs at a glance

- **Measurement range** 0 to 2 mg/l
- **Process temperature** +0 to 45 °C (32 to 110 °F), non freezing
- **Process pressure** 1 bar (14.5 psi), 2 bar (29 psi) absolute
- **Measuring method** - closed 2 electrode system - conversion of ozone into a signal current in nA - signal current is proportional to the concentration of ozone - the measurement is not pH dependent

**Field of application:** Memosens CCS58D is a low-maintenance sensor for ozone. It provides high-precision measurement with an almost exclusive specificity for ozone, ensuring reliable disinfection monitoring. The robust sensor membrane with its high surfactant resistance makes the sensor suitable for diverse applications, e.g. bottle cleaning. Thanks to Memosens digital technology, CCS58D combines maximum process and

data integrity with simple operation and provides the perfect basis for predictive maintenance.

## Features and specifications

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### Disinfection

#### Measuring principle

Ozone

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#### Application

Drinking water - ensures adequate disinfection  
Process water - for hygienic packaging and filling  
Wastewater - to ensure safe discharge water

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#### Characteristic

Amperometric measurement of dissolved ozone

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#### Measurement range

0 to 2 mg/l

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#### Measuring method

- closed 2 electrode system
  - conversion of ozone into a signal current in nA
  - signal current is proportional to the concentration of ozone
  - the measurement is not pH dependent
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#### Design

- exchangeable, electrolyte-filled membrane cap
  - working and counter electrode
  - adaptable shaft for flexible installation in assemblies
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#### Material

Sensor shaft: PVC  
Membrane: Silicone  
Membrane cap: PVC

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#### Dimension

Diameter: 25 mm (0.98 in)  
Length: 161 mm (6.34 in)

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## Disinfection

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**Process temperature**

+0 to 45 °C (32 to 110 °F), non freezing

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**Process pressure**

1 bar (14.5 psi), 2 bar (29 psi) absolute

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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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