

# Digital total chlorine sensor Memosens CCS120D

## Memosens disinfection sensor for wastewater and process water



More information and current pricing:

[www.us.endress.com/CCS120D](http://www.us.endress.com/CCS120D)

### Benefits:

- Easy handling thanks to Memosens digital technology
- Enables predictive maintenance due to storage of sensor and process-specific data
- Low maintenance thanks to fast exchange of membrane cap and electrolyte
- Flexible installation in CYA112 immersion assembly or CCA250 flow assembly
- Easy combination with other relevant parameters of liquid analysis thanks to connection to the Liquiline multichannel transmitter

### Specs at a glance

- **Measurement range** 0.1 to 10 mg/l total chlorine
- **Process temperature** 5 to 45 °C (41 to 113 °F)
- **Process pressure** 1 to 4 bar (14.5 to 58 psi)
- **Measuring method** Total chlorine consists of free chlorine (HOCl, OCl-) and bound chlorine (chloramines) All components are reduced at the working electrode Almost pH independent

**Field of application:** Total chlorine is the mixture of free and bound chlorine components and thus a good indicator of residual disinfectants in discharge water. CCS120D provides reliable monitoring of total chlorine limits in the outlet. It reduces your maintenance effort due to easy replacement of electrolyte and membrane cap. Thanks to Memosens digital technology, CCS120D combines maximum process and data integrity. It resists corrosion and moisture, enables lab calibration, and facilitates predictive maintenance.

### Features and specifications

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## Disinfection

### Measuring principle

Total chlorine

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### Application

Wastewater treatment plants, disinfection monitoring and control in wastewater outlet, reuse of outlet water, utilities of all industries, all disinfection measuring points

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### Characteristic

Amperometric measurement of total chlorine

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### Measurement range

0.1 to 10 mg/l total chlorine

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### Measuring method

Total chlorine consists of free chlorine (HOCl, OCl-) and bound chlorine (chloramines)

All components are reduced at the working electrode

Almost pH independent

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### Design

Closed, membrane covered measuring cell

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### Material

Sensor shaft: PVC

Membrane: PET

Membrane cap: PPE

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### Dimension

Diameter: 25 mm (0.98 inch)

Length: 148 mm (5.83 inch)

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### Process temperature

5 to 45 °C

(41 to 113 °F)

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### Process pressure

1 to 4 bar (14.5 to 58 psi)

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## Disinfection

### Temperature sensor

10k NTC integrated (Memosens)

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### Connection

Inductive, digital connection head with Memosens

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