

Analog free chlorine sensor CCS51

Sensor for drinking water, pool and process water as well as utilities in all industries



More information and current pricing:

www.ca.endress.com/CCS51

Benefits:

- Fast response time ($t_{90} < 25$ s) 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 individually adapted disinfectant dosing.
- The low-maintenance, amperometric sensor reduces the cost of ownership of the measuring point, particularly compared to colorimetric measuring systems.
- Connection to the Liquisys chlorine transmitter ensures continuity for the installed base of analog free chlorine measuring points.

Specs at a glance

- **Measurement range** Trace: 0 to 5 mg/l HOCl Standard: 0 to 20 mg/l HOCl
- **Process temperature** +0 to 55 °C (32 to 130°F), non-freezing
- **Process pressure** 1 bar (14.5 psi)
- **Measuring method** - Closed, membrane covered measuring cell - Reduction of free chlorine at the cathode

Field of application: CCS51 is a robust, low-maintenance sensor for free chlorine. It provides high-precision measurement with long-term stability in drinking water, pool and process water and ensures consistent disinfection monitoring even at low water volumes. The analog free chlorine sensor features extremely fast response times guaranteeing efficient process control and safe processes. CCS51 ensures continuity for the installed base of analog free chlorine measuring points.

Features and specifications

Disinfection

Measuring principle

Free chlorine

Application

Drinking water - to ensure reliable disinfection

Process water - wide range of application due to large measuring range

Food - to secure absence/presence of free chlorine

Pool water - efficient dosing thanks to precise measurement

Characteristic

Amperometric measurement of dissolved free chlorine

Measurement range

Trace: 0 to 5 mg/l HOCl

Standard: 0 to 20 mg/l HOCl

Measuring method

- Closed, membrane covered measuring cell

- Reduction of free chlorine at the cathode

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 in)

Length: 161 mm (6.34 in)

Process temperature

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

Process pressure

1 bar (14.5 psi)

Disinfection

Temperature sensor

10k NTC

Connection

analog with fixed cable

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