# 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.th.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

More information **www.th.endress.com/CCS51**

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