

# Trace Chlorine CCS141



More information and current pricing:

[www.be.endress.com/CCS141](http://www.be.endress.com/CCS141)

## Benefits:

- Recalibration intervals approx. 1 to 4 months under constant operating conditions
- Easy membrane replacement thanks to prefabricated membrane cap
- Measured values are not affected by conductivity fluctuation
- Measurement virtually independent of flow rate in the range above 30 l/h
- Zero-point calibration not required. No complex installation of an activated carbon filter, as found with open chlorine sensors.

## Specs at a glance

- **Measurement range** 0,01 - 5ppm free chlorine; pH 4-8,2
- **Process temperature** 2°C - 45°C
- **Process pressure** 0bar - 1bar

**Field of application:** CCS141 is the analog sensor for trace measurement of free chlorine. It delivers reliable values even if fluctuations in flow or conductivity occur and allows control of the disinfection loop so that the water is free of germs. At the same time, the sensor is designed for long calibration and service intervals reducing your maintenance effort.

## Features and specifications

### Disinfection

#### Measuring principle

Free chlorine

#### Application

Water, process

#### Characteristic

Amperometric measurement of free chlorine.

## Disinfection

**Measurement range**

0,01 - 5ppm free chlorine; pH 4-8,2

**Measuring principle**

- closed (membrane covered) measuring cell.
- Reduction of hypochloric acid (HOCl) to chlorid on the cathode at approx. 20mV.

**Design**

Closed amperometric 2-electrode measuring cell with PTFE membrane.

**Material**

Sensor shaft : PVC

Membrane : PTFE

Membrane cap :PBT (GF30); PVDF

**Dimension**

Diameter : appr. 25mm

Length : 160mm

**Process temperature**

2°C - 45°C

**Process pressure**

0bar - 1bar

**Temperature sensor**

With NTC-temperature sensor

**Connection**

Fixed cable

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