

## Chloromax CCS142D



More information and current pricing:

[www.casc.endress.com/CCS142D](http://www.casc.endress.com/CCS142D)

### Benefits:

- Long calibration and maintenance intervals
- Easy membrane replacement thanks to prefabricated membrane cap
- Zero-point calibration normally not required, but possible for best adaptation to lowest measured values
- Measured values are not affected by conductivity fluctuation
- Sensor can be installed in flow cell CCA250 or in immersion assemblies. Measurement virtually independent of the flow at flow velocities above 30 l/h or ~8 gal/h (CCA250) or above 15 cm/s or ~0.5 ft/s (immersion).
- Maximum process safety through no-contact inductive signal transmission
- Easy handling due to storage of sensor-specific data

### Specs at a glance

- **Measurement range** CCS142D-A: 0.05 to 20 mg/l Cl<sub>2</sub> (25 °C (77 °F), pH 7.2) CCS142D-G: 0.01 to 5 mg/l Cl<sub>2</sub> (25 °C (77 °F), pH 7.2)
- **Process temperature** 0 to 45 °C (32 to 113 °F), non-freezing
- **Process pressure** Medium in the CCA250 assembly: max. 1 bar (14.5 psi)

**Field of application:** Chloromax CCS142D is the digital free chlorine sensor for all kinds of water. It measures reliably even if fluctuations in flow or conductivity occur and enables control of the disinfection loop so that the water is free of germs. The sensor offers low maintenance saving you time. Thanks to Memosens digital technology, CCS142D combines maximum process and data integrity with simple operation. It resists corrosion and moisture, enables lab calibration and simplifies predictive maintenance.

### Features and specifications

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## Disinfection

### Measuring principle

Free chlorine

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### Application

Water treatment, drinking water, service water, process water, distribution network

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### Characteristic

Amperometric measurement of free chlorine

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### Measurement range

CCS142D-A:

0.05 to 20 mg/l Cl<sub>2</sub> (25 °C (77 °F), pH 7.2)

CCS142D-G:

0.01 to 5 mg/l Cl<sub>2</sub> (25 °C (77 °F), pH 7.2)

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### Measuring principle

Membrane-covered amperometric sensor

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### Design

Sensor for use in flow cell (CCA250)

or for immersion use (thread NPT 3/4 on top)

Memosens-technology

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### Material

Sensor shaft: PVC

Membrane: PTFE

Membrane cap: PBT, PVDF

Cathode: gold

Anode: silver / silver chloride

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### Dimension

Diameter sensor body: 25 mm (0.98 inch)

Diameter sealing seat for flow cell: 31 mm (1.22 inch)

Length: 148 mm (5.83 inch)

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### Process temperature

0 to 45 °C (32 to 113 °F), non-freezing

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## Disinfection

### Process pressure

Medium in the CCA250 assembly: max. 1 bar (14.5 psi)

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### Temperature sensor

Integrated (Memosens)

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### Connection

Memosens

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