



Safe and efficient disinfection

Precise and long-term stable measurement of free chlorine with Memosens CCS5 1D

Your sensor for all free chlorine disinfection processes in drinking water, process water and pool water

Safe disinfection

- Long-term stable measurement ensures consistent process monitoring
- Low flow dependence supports safe measurement in varying process conditions

More process uptime

- Memosens technology enables pre-calibration of sensors in the laboratory and fast exchange on site
- Non-contact data transmission with Memosens technology eliminates measurement errors due to humidity or corrosion

Efficient process control

- High precision allows for lowest disinfectant dosing
- Fast response time provides accurate process monitoring even with small sample volumes



When do I use Memosens CCS51D?

Free chlorine is the most important disinfectant in water treatment due to its easy handling, the strong disinfecting effect and the depot effect. Memosens CCS51D ensures reliable measurement and efficient dosing of free chlorine in all of its applications:

- Drinking water – to ensure sufficient disinfection
- Food – to guarantee food safety and provide hygienic packaging and bottling
- Utilities – to detect the absence or presence of chlorine
- Pool water – to dose disinfectant efficiently

What is the new disinfection platform?

All disinfection sensors of the new platform feature:

- Long-term stability and low maintenance thanks to their state-of-the-art membrane cap.
- Fast response times due to the membrane design.
- Low cost of ownership compared to colorimetric systems.

The platform started with the Memosens CCS50D chlorine dioxide sensor. Chlorine dioxide is becoming a disinfectant of choice since it is very potent against e.g. biofilm formation.

The platform is now extended by Memosens CCS51D for free chlorine, the most commonly used disinfectant today.

And there is more to come.

Efficiency by fast response time

The special membrane cap design of Memosens CCS51D provides an extremely fast response time. It helps you run your disinfection processes on tight limits and save on chemicals.

More process uptime

Memosens technology allows for pre-calibration of the sensors in your lab. Swap the sensor into the process with plug & play. Non-contact data transmission eliminates all measurement errors or even failures caused by humidity or corrosion. The sensor's fast response time allows you to quickly detect and remedy process changes.

Flexible installation

- Memosens CCS51D can be used in combination with the Flowfit CCA250 flow assembly that offers mounting space for additional pH and ORP sensors.
- When installed in the Flowfit CCA151 assembly the sensor has minimum flow requirements but you need to provide pH measurement for compensation elsewhere.
- When combined with the Flexdip CYH112 immersion assembly, the free chlorine sensor is perfectly suited for open vessels and channels.



Systematic disinfection is an essential step in water treatment and legally required in many areas to protect people and systems from illness or damage. However, high doses of disinfectants such as free chlorine and chlorine dioxide can be toxic, which means compliance with limit values for those disinfectants is also very important.

The Memosens CCS51D free chlorine sensor helps to achieve a safe and efficient disinfection by providing stable and fast measured values.

Safety by long-term stability

- Memosens CCS51D features a convex membrane made of dense, dirt-repellent material which prevents soiling and makes it extremely resistant to biofouling.
- Ultrasonic welding of the membrane to the sensor cap ensures its integrity, preventing drift of the measurement signal.
- Under moderate process conditions, the membrane cap and electrolyte need to be replaced only once per year.

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