

Endress+Hauser CCS51D: New sensor that assures extremely fast, stable and highly precise free chlorine measurement

Burlington, ON – Whether the job is keeping drinking, process or pool water safe, the new [Memosens CCS51D](#) sensor for free chlorine from Endress+Hauser provides extremely fast, high precision measured values, critical for protecting people and systems from illness or damage respectively, and does so even at low water volumes.

Free chlorine is the most important disinfectant in water treatment due to its easy handling, the strong disinfecting power and the residual effect. Over-dosing can have toxic effects and is a money-waster. Precise dosing control of free chlorine requires the fast and sensitive measuring capability of the [CCS51D](#). It features a special membrane design that assures an extremely fast response time, helping plant operators run their disinfection processes on tight limits and with only as much chemical usage as is required.

This robust sensor's convex membrane made of dense, dirt-repellent material prevents soiling and makes it extremely resistant to biofouling. Ultrasonic welding of the membrane to the sensor cap ensures its integrity, preventing dilution of the electrolyte and thus a drift of the measuring signal. This guarantees long-term stable measurements and gives water plant managers the security that the disinfection process is running smoothly and the required disinfection results are achieved.

The free chlorine sensor is equipped with the proven Memosens technology. Memosens allows for direct commissioning of new sensors without further calibration. During on-going operation, plant operators can pre-calibrate sensors in the lab, swap them into the process with plug & play, and thus continue measuring faster. Finally, non-contact data transmission eliminates all measurement errors or even failures caused by humidity or corrosion.

The disinfection effectiveness of free chlorine is strongly dependent on the pH value. To compensate for this dependency, it is important to integrate a pH measurement into all disinfection processes with free chlorine. Memosens free chlorine sensors can be installed on a Flowfit CCA250 flow assembly together with Memosens pH sensors for pH compensation.

About Endress+Hauser

Endress+Hauser is a global leader in measurement instrumentation, services and solutions for industrial process engineering. Our products – sensors, instruments, systems and services for level, flow, pressure and temperature measurement as well as analytics and data acquisition – set standards in quality and technology. The company further supports its customers with automation engineering, logistics and IT

services and solutions. Founded in 1953 by Georg H Endress and Ludwig Hauser, the Endress+Hauser Group has been solely owned by the Endress family since 1975. Today, the Group is managed and coordinated by a holding company based in Reinach, Switzerland, employing almost 14,000 personnel across the globe. In 2018, the Group generated net sales of C\$3.6 billion. Endress+Hauser's production centres in 12 countries meet customers' needs and requirements quickly and effectively, while our dedicated sales centres and strong partner network guarantee competent worldwide support.

Press Photo (see JPEG file attached): The Memosens CCS5D1 free chlorine sensor (second component from the left) from Endress+Hauser provides fast, stable and highly precise measurement, which makes it an indispensable part of an effective Disinfection System (pictured).

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