Online Chlorine Dioxide & Chlorine Analyzer

W510 with AS3 Sensor for Hot Water upto 70℃

The Online Chlorine Dioxide & Chlorine Analyzer is equipped with German-made high-performance amperometric sensor AS3 for precise free chlorine/chlorine dioxide monitoring in drinking/hot water (up to 70°C). Operating via a potentiostatic three-electrode system, it delivers accurate, stable signals to support long-term disinfection control and water safety. It integrates seamlessly with control systems, offering analog (voltage/4-20 mA), digitally processed analog, and digital Modbus RTU outputs. Equipped with integrated automatic temperature compensation (0-70°C), the W510-DAS3 combines rugged design, advanced electrochemistry, and low-maintenance features. It's a cost-effective solution for reliable disinfectant monitoring in challenging water treatment processes with high temperatures or aggressive conditions.

Application

Disinfection control in drinking water treatment plants (municipal and industrial).
Monitoring of process water in applications requiring hot water (up to 70°C), such as in the food and beverage industry.
Cooling water systems.
Any application using chlorine dioxide as a disinfectant.

Technical Parameters

Parameter	Specification
Measurands	Free Chlorine (AS3-CL), Chlorine Dioxide (AS3-CD)
Application Medium	Drinking Water (cold and hot, up to 70°C)
Housing Material	PEEK

Measuring Ranges (examples)	CL (High): 0.005...2.000 ppm (without RV1) / 0.005...0.700 ppm (with RV1) CL (Normal): 0.03...20.00 ppm (without RV1) / 0.03...7.00 ppm (with RV1)
Output Signals	Analog: 0...±2 V, 4...20 mA; Digital: Modbus RTU
Power Supply	Typically 9...30 VDC or 10...30 VDC, depending on version
Max. Working Pressure	0.5 bar (standard) / 8 bar (with retaining ring in TARAflow FLC flow chamber)
Operating Temperature	Water: 0...+70°C; Ambient: 0...+55°C
pH Range	CL: pH 5 - pH 9 CD: pH 1 - pH 12
Response Time (T90)	Approx. 30 seconds
Connection	5-pole M12 plug-on flange (IP68) or 2-pole terminal (IP65)