

Online Free Chlorine Analyzer

W510 with CL4.2 Sensor for Drinking Water



The Online Free Chlorine Analyzer is equipped with German-made CL4.2 sensor, which adopts a membrane-covered amperometric 2-electrode system with built-in electronics, which only measures pH-dependent residual chlorine, integrates a temperature sensor for automatic temperature compensation (avoiding sudden temperature change), requires no zero-point adjustment but needs DPD-1 method calibration, and is affected by pH and O₃; in terms of technical features, it has high measurement stability, easy operation and maintenance, good environmental adaptability, and flexible signal & connection; It is mainly applied to water bodies without surfactants to avoid membrane contamination, such as swimming pool water, drinking water, service water, and process water, and must be used with a dedicated flow cell to meet flow and pressure requirements.

Application

Core Adaptation: Water bodies without surfactants (tensides) (surfactants contaminate the membrane and affect accuracy).

Applicable Water Types: Swimming pool water, drinking water, service water, process water.

Technical Parameters

Category	Detailed Parameters
Basic Parameters	Measuring Parameter: Free chlorine;pH-dependent
Measurement Performance	Measurement Range: Modbus RTU-Output: 0.005~2.000ppm, resolution 0.001 mg/L; 0.05~20.00ppm, resolution 0.01 mg/L; 0.5~200.0 ppm, resolution 0.1 mg/L;

	4-20mA-Output: 0.005~0.500ppm, resolution 0.001 mg/L; 0.005~2.000ppm, resolution 0.001 mg/L; 0.05~5.00ppm, resolution 0.01 mg/L; 0.05~10.00ppm, resolution 0.01 mg/L; 0.05~20.00ppm, resolution 0.01 mg/L; 0.5~100.0 ppm, resolution 0.1 mg/L; 0.5~200.0 ppm, resolution 0.1 mg/L. Response Time T90: Approximately 30 seconds
Environmental Conditions	Water Temperature: 0~45°C (no condensation); Ambient Temperature: 0~55°C; pH Operating Range: 6~8; Flow Rate: 15~30 L/H (in flow cell)
Connection Method	2-pin terminal (2×1mm ²), 5-pin M12 plug-on flange
Interfering Factors	ClO ₂ : factor 9 O ₃ Electrolytically generated chlorine with a cell without membrane can produce trouble