

Intelligent Online Free Chlorine Analyzer

W761 with CL2.2 Sensor for Sea Water



The Inline Residual Chlorine Analyzer is equipped with German-made CL2.2 sensor, which uses a coated amperometric dual-electrode system to detect only hypochlorous acid (HOCL) in water, with automatic temperature compensation, analog/digital signal output, no zero calibration, and slope loss affected by pH; It applies to high-salt water for disinfection monitoring of drinking water, swimming pool water, slightly polluted process/cooling water, and features high-salt resistance, stable dual-electrode measurement with fast response, easy operation, and environmental demands.

Application Fields

Core adaptation to high-salt concentration water bodies, with specific scenarios as follows:

- 1. Basic Environment: Brine or seawater with a salt concentration of 3.5%~26% (conductivity > 50mS).
- 2. Specific Applications:
- Disinfection monitoring of drinking water and swimming pool water;
- Disinfection monitoring of slightly polluted process water and cooling water treatment;
- Must be used with a dedicated flow cell to ensure the water flow meets requirements.

Technical Parameters

Category	Detailed Parameters
Basic Parameters	Measuring Parameter: Free chlorine; Applicable Chlorinating Agents: Inorganic chlorine compounds (NaOCl, Ca(OCl) ₂ , chlorine gas, membrane electrolytic chlorine); Diaphragm-free electrolytic chlorine is prohibited
Measurement Performance	Measurement Range: 0.005~2 mg/L (ppm, resolution 0.001 mg/L);



	0.05~20 mg/L (ppm, resolution 0.01 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)
pH Dependence	Approximately 60% slope loss at pH=8, and approximately 80% at pH=8.5 (with pH=7 as the reference); pH fluctuation must be maintained < 0.05
Signal & Power Supply	Output Signal: 4~20mA/0~±2V (analog), Modbus RTU (digital); Power Supply Voltage: 12~30VDC (2-pin terminal), 9~30VDC (5-pin M12)
Connection Method	2-pin terminal (2×1mm²), 5-pin M12 aviation connector
Interfering Factors	Chlorine Dioxide (ClO ₂): Measured, concentration coefficient 9; Ozone (O ₃): Measured; Diaphragm-free chlorine electrolysis causes interference
Physical Characteristics	Pressure Resistance: Maximum absolute pressure 2 bar, maximum relative pressure 1 bar; Materials: Semipermeable membrane, PVC-U, ABS; Dimensions: Diameter 25mm, length 190~220mm (depending on connection method); Weight: Approximately 125g
Others	Polarization Time: 1 hour; Electromagnetic Compatibility (EMC): Interference emission Class B, immunity meets industrial requirements (EN 61326-1/2-3)