Intelligent Online Free Chlorine Analyzer

W761 with CC1 Sensor for Swimming Pool Water

The Inline Residual Chlorine Analyzer is equipped with German-made CC1 sensor, which adopts a membrane-covered amperometric potentiostatic 3-electrode system with built-in electronics, which measures free chlorine, features automatic temperature compensation, requires no zero-point adjustment, and has highly reduced pH dependence; It is mainly applied to swimming pool water, drinking water, and sea water.
In terms of technical characteristics, it offers good measurement stability, practical operation and maintenance, strong environmental adaptability, flexible signal and connection option, and complies with EMC and RoHS standards.

Application Fields

Swimming pool water, drinking water, sea water (partially tolerates surfactants, suitable for more complex water types than surfactant-intolerant models).

Technical Parameters

Item	Specification
Measurement System	Membrane-covered amperometric potentiostatic 3-electrode system (built-in electronics)
Measurement Range	**Modbus RTU-Output:** 0.05~20.00ppm, resolution 0.01 mg/L; 0.005… 2.000 ppm, resolution 0.001 mg/L; **4-20mA-Output:** 0.005~0.500ppm, 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. Response Time T90: Approximately 2 minutes.
Flow Rate	15–30 L/h (15–30 cm/s, small flow dependence)
pH Range	4–12 (highly reduced pH dependence)
Max Working Pressure	≤0.5 bar (no retaining ring); ≤3 bar (with retaining ring)
Response Time (T90)	≈2 minutes
First Start-Up Time	≈2 hours
Accuracy (25°C, pH7.2)	2 mg/L range: <2% at 0.4 mg/L & 1.6 mg/L (repeatability conditions)
Slope Drift	≈ < -3% per month (25°C, pH7.2 in drinking water)
Disinfectant Absence Tolerance	Max 24 hours
Material	Microporous hydrophilic membrane, PVC-U, PEEK, stainless steel
Protection Class	5-pole M12 plug-on flange (IP68); 2-pole terminal with mA-hood (IP65)