

Intelligent Online Free Chlorine Analyzer

W761 with CS4 Sensor for Tap Water



The Online Residual Chlorine Analyzer is equipped with German-made CS4 sensor, its detection part adopts special osmotic membrane technology, resisting chemical interference (mainly from surfactants) and reducing pH dependence. The sensor is unaffected by water quality, with fast response, stable performance, low cost, minimal maintenance, and provides reliable, accurate data. The instrument with a LCD screen displays disinfectant value (main), aqueous solution pH (requires optional pH electrode), and working status, outputting analog, digital, and switching signals. This analyzer applied to tap water, swimming pool water, medical wastewater, sewage water treatment, fruit and vegetable disinfection; seawater, high-salt seawater, pipeline disinfection, industrial water treatment fields etc.

Dimension

Simulation of 2-Pin Terminal Connection for Simulated Electrodes	Simulated Electrode M12 Aviation Connector	Digital Electrode M12 Aviation Connector

Technical Parameters

Specification		Detailed information
Measurement	Measurement Parameters	Chlorine , pH (optional)
	Measuring Ranges	0.005~0.500mg/L;0.005~2.000mg/L;0.05~5.00mg/L;0.05~10.00mg/L;0.05~20.00mg/L;0.5~200.0mg/L0.03~2.5mg/L; 20~2000mg/L (special application)
	Lower Limit of Measurement	0.005mg/L
	Resolution	0.001~1mg/L (depending on the measuring range)
	Accuracy (@25℃, pH 7.2)	In the measurement range of 0 - 1ppm, when calibrated at 0.5ppm, the error is $\pm 2\%$ of the measured value or $\pm 0.03\text{ppm}$. (take the larger one)
		In the measurement range of 1 - 2ppm, when calibrated at 1.5ppm, the error is $\pm 2\%$ of the measured value or $\pm 0.03\text{ppm}$. (take the larger one)
		In the measurement range of 0 - 10ppm, when calibrated at 5.0ppm, the error is $\pm 2\%$ of the measured value or $\pm 0.3\text{ppm}$. (take the larger one)
		In the measurement range of 10 - 20ppm, when calibrated at 15.0ppm, the error is $\pm 5\%$ of the measured value or $\pm 0.5\text{ppm}$. (take the larger one)
	Response time	T90 $\approx$ 2 minutes
	Drift	Approximately - 1% per month (after calibration at 25℃ and pH = 7.2)
Electrical	PH range	4.0 - 12.0 (depending on the electrode)
	Maintenance Cycle	$\geq 90\text{days}$
	Conductivity range	10 $\mu\text{S/cm}$ - 50mS/cm (Special applications for values > 50mS/cm)
	Display	LCD liquid - crystal screen
	Data Storage	It has an automatic storage function and data protection in case of power failure. In total, it can store 110,000 pieces of data.
	Power supply	105~235VAC, 50 $\pm$ 1Hz/24VDC $\pm$ 5%(DC is optional)
	Power	$\leq 3\text{W}$ (including the sensor)
Physical properties	Analog Output	Two-way analog output, with optional signals: 4 - 20mA / 20 - 4mA / 0 - 20mA (load resistance < 500 Ω)
	Digital output	RS485 interface, MODBUS RTU protocol
	Relay output	Three-way relay 3A 250VAC; 3A 28VDC or 120VAC
Ambient performance	Material	Powder - coated steel plate
	Size	300*250*165mm (H*W*D)
	Weight	6kg
Ambient performance	Flow rate	In flow chamber: 250~500mL/min
	Protection level	IP43
	Water pressure	$\leq 6\text{ bar}$ (matching a pressure - reducing valve with the instrument)
	Working humidity	<90%,no condensation
	Working temperature	Instrument: -15℃~50℃; sensor water temperature: 0.1℃~45℃ (0.1℃ to 70℃ for special applications)
	Storage temperature	Instrument: -20℃~60℃; sensor: 0.1℃~55℃