

Online Chlorine Dioxide Analyzer

with CD10.1 Sensor for Processing Water



The online chlorine dioxide analyzer is equipped with a German-made CD10.1 sensor, adopting special osmotic membrane technology. It resists chemical interference (mainly surfactants), reduces pH dependence, and is not restricted by water quality. With fast response, stable performance, low cost, minimal maintenance, it delivers reliable and accurate data.

Its application fields include tap water, chlorine dioxide generator, sewage treatment, pipeline disinfection and fruit and vegetable disinfection etc.

Technical Parameters

Specification		Detailed information
Measurement	Measurement Parameters	Chlorine dioxide, pH (optional)
	Measuring Ranges	0.005~0.50mg/L; 0.005~2.000mg/L; 0.05~5.00mg/L; 0.05~10.00mg/L; 0.05~20.00mg/L; 0.5~200mg/L
	Lower Limit of Measurement	0.005mg/L
	Resolution	0.001mg/L-0.01 (depending on the measuring range)
	Accuracy (@25°C, 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 ± 0.03 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 ± 0.03 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 - 8 minutes
	Repeatability	$\leq 3\%$
	Drift	Approximately - 1% per month (after calibration at 25°C and pH = 7.2)
	PH range	1.0 - 12.0 (depending on the electrode)
	Maintenance Cycle	The replacement cycle of the membrane cap is one year (depending on water quality)
	Flow rate	In the flow chamber: 250 - 500mL/min
	Operating temperature	0 - 70°C
Electrical	Display	LCD liquid - crystal screen
	Power supply	105~235VAC, 50 $\pm$ 1Hz/24VDC $\pm$ 5%(DC is optional)
	Power	$\leq 12\text{W}$ (including the sensor)
	Analog Output	Two ways of analog outputs (load resistance < 500 Ω)
	Digital output	RS485 interface, MODBUS RTU protocol
	Relay output	Three-way relay 5A 250VAC, 5A 30VDC
Physical properties	Material	Bottom shell: Cast aluminum with plastic spray coating
		Top cover: PA66 + 30GF with paint coating
	Size	145*145*174mm (H*W*D)
	Weight	1.8kg (Not including the sensor)
Ambient performance	Waterway interface	2-inch or 3-inch hose (custom made)
	Flow rate	In flow chamber: 250~500mL/min
	Protection level	IP65
	Water pressure	$\leq 6\text{ bar}$ (matching a pressure - reducing valve with the instrument)
	Working humidity	<90%, no condensation
	Working temperature	Instrument: -15°C~50°C; sensor water temperature: 0.1°C~45°C
		(0.1°C to 70°C for special applications)
	Storage temperature	Instrument: -20°C~60°C; sensor: 0.1°C~55°C

Dimension

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