

Online Ozone Analyzer

with OZ10.1 Sensor for Drinking Water



The online ozone analyzer is equipped with a German-made OZ10.1 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, and minimal maintenance, it provides users with reliable and accurate data.

Featuring an LCD screen, the instrument can automatically identify measured parameters. It has current 4-20mA and RS485 output, allows free setting of the measurement range, and is equipped with high and low limit alarm prompts, three-way relay control switches, an adjustable hysteresis range, and multiple automatic electrode calibration methods.

It is widely used in drinking water disinfection and purification, swimming pool water disinfection, surface disinfection of food and beverage packaging containers, and barreled water disinfection etc.

Technical Parameters

Specification		Detailed information
Measurement	Measurement Parameters	Ozone, 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
	Lower Limit of Measurement	0.005mg/L
	Resolution	0.001~0.01mg/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 ±2% of the measured value or ±0.03ppm. (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	The fastest T90 $\approx$ 15 seconds
	Drift	Approximately - 1% per month (after calibration at 25°C, pH = 7.2)
	PH range	2.0~11.0
	Maintenance Cycle	$\geq 90\text{days}$
Electrical	Conductivity Range	10 $\mu\text{S/cm}$ ~50mS/cm
	Temperature range	5~50°C
	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
Physical properties	Relay output	Three-way relay 5A 250VAC, 5A 30VDC
	Relay output	Three-way relay 3A 250VAC; 3A 28VDC or 120VAC
	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~50°C
	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
		