

Online Hydrogen Peroxide Analyzer

with WP10.1 Sensor for Sea Water



The Online Hydrogen Peroxide Analyzer consists of an instrument with LCD display and a German-made WP10.1 sensor with special osmotic membrane technology, resisting chemical interference (especially surfactants) and reducing pH dependence, unaffected by water quality, it offers fast response, stable performance, low cost, low maintenance, and reliable data. Applied mainly in power plants, petrochemical, metallurgy, mining, paper, bio-fermentation, pharmacy industry, food/beverage, water treatment, aquaculture fields etc

Technical Parameters

Specification		Detailed information
Measurement	Measurement Parameters	Hydrogen peroxide (pH electrode is optional)
	Measuring Ranges	0.5~200mg/L; 5~2000mg/L; 50~20000mg/L; 500~50000mg/L; 500~100000mg/L; 500~20,0000mg/L;
	Lower Limit of Measurement	0.1mg/L
	Resolution	0.1~100mg/L (depending on the measuring range)
	Accuracy (@25°C, pH 7.2)	±2% – ±5% or ±0.5mg/L (take the larger value depending on the measurement range)
	Response time	T90≈ 8 minutes
	Repeatability	≤3%
	Drift	Approximately - 1% per month (after calibration at 25°C and pH = 7.2)
	PH range	2 - 11 (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 - 45°C
Electrical	Display	LCD liquid - crystal screen
	Power supply	105~235VAC, 50±1Hz/24VDC±5%(DC is optional)
	Power	≤12W (including the sensor)
	Analog Output	Two ways of analog outputs (load resistance < 500Ω)
	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)
	Waterway interface	2-inch or 3-inch hose (custom made)
Ambient performance	Flow rate	In flow chamber: 250~500mL/min
	Protection level	IP65
	Water pressure	≤6 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
		