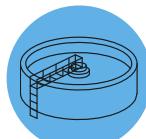




POP-500

ORP Sensor



POP-500

ORP Sensor

The POP-500 ORP sensor is a combination electrode that includes a precious metals indicator electrode with a reference electrode. It measures the potential difference between the working battery composed of the measuring electrode and the reference electrode in a solution. By utilizing the linear relationship between the ORP value of the measuring solution and the potential of the working battery, it achieves online ORP monitoring.



Product Features

- **Repeatability and Stability:** Offers good stability and repeatability, suitable for fresh and sea water testing.
Measurement range: -2000mV ~ +2000mV.
- **Simple Cleaning and Activation:** Allows for easy cleaning and activation, with a high balance speed.
- **Analog-Digital Conversion Module (Optional):** Enables digital signal output with high anti-jamming capacity and far transmission distance.
- **RS485 Digital Signal Output (Optional):** Achieves standard digital signal output via RS485, enabling integration and networking with other equipment without a controller.
- **Quick and Easy Installation:** Facilitates field installation through terminal connection.

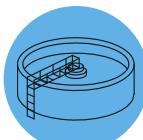


POP-500

Technical Specifications

Basic Specifications	
Main Materials	Black Polypropylene, Ag/AgCl Reference Gel
Measurement Range	-2000mV ~ +2000mV
Pressure Range	≤0.6Mpa
Temperature Range	0~80°C (Non-freezing)
Zero Potential Value	86±15mV (25°C) (in pH 7.00 solution containing saturated quinhydrone)
Range	≥170mV (25°C) (in pH 4 solution containing saturated quinhydrone)
Response Time	≤10 sec (Reaches 95% of the end value) (After stirring)
Dimensions	Sensor: Dia28.7mm * L195mm
Weight: Sensor	Sensor: Dia28.7mm * L195mm
Cable Length	Standard: 10m, maximum extendable to 20M

APPLICATIONS



Water Treatment Plants
Monitor water quality in treatment processes for effective disinfection.



Environmental Monitoring
Assess water quality in natural bodies for pollution detection.



Industrial Processes
Control chemical reactions using precise measurements.



Aquaculture
Maintain optimal aquatic conditions in fish tanks.



Laboratory Research
Utilize for scientific experiments and studies.



Note -

This data sheet serves as general information about the POP-500 . For specific technical details, installation guidelines, and troubleshooting assistance, please refer to the official user manual provided with the product.

For inquiries and detailed technical information, please contact info@advanceanalytik.com.

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