AAPCPHL-800A

Sensor

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Sensor

The AAPCPHL-800A is an advanced sensor designed for precise monitoring of Rhodamine B Dye in water. With a wide measurement range of 0-500 ug/L and ±5% accuracy, it ensures reliable detection even at low concentrations. Featuring a compact and durable design with IP68/NEMA6P protection, this sensor provides dependable performance in various environments. Equipped with features such as fluorescent measuring target parameter and rapid detection, the AAPCPHL-800A is an essential tool for timely and accurate environmental monitoring.

Product Features

1. **Fluorescent Measuring Target Parameter:** Enables identification of pigment before being affected by potential water bloom.
2. **Rapid Detection**: Avoids the need for extraction or lengthy water sample shelving, ensuring timely results.
3. **Digital Sensor with High Anti-Jamming Capacity**: Provides reliable performance even in noisy environments.
4. **Far Transmission Distance**: Facilitates seamless data transmission over long distances.
5. **Standard Digital Signal Output**: Allows integration and networking with other equipment without a controller.
6. **Plug-and-Play Sensors**: Ensures quick and effortless installation for user convenience.
7. **Reverse Polarity Protection**: Safeguards the sensor from potential power issues.

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Technical Specifications

General Information	
Model	AAPCPHL-800A
Dimensions	Diameter: 30mm, Length: 223mm
Weight	0.55KG
Protective Rating	Sensor: IP68/NEMA6P
Measurement Specifications	
Measurement Range	0-500 ug/L
Measurement Accuracy	±5% of the signal level corresponding value of 1ppb Rhodamine B Dye
Resolution	0.01ug/L
Repeatability	±3%
Pressure Range	≤0.4 Mpa
Temperature Specifications	
Storage Temperature	-15-50℃
Measuring Temperature	0-45℃ (Non-freezing)
Electrical Specifications	
Power Supply	DC 6~12V, current < 50mA
Output	3-way 4-20mA
Relay	Three-way relays, programmed response parameter and response value
Communication Protocol	MODBUS RS485
Material Specifications	
Main Material	Body: SUS316L (fresh water), Titanium alloy (marine);
Cover	POM
Cable	PUR
Requirements	Suggest a multipoint monitoring for the distribution of Blue-Green Algae in water as it is very uneven. Water turbidity is below 50NTU.
Installation Specifications	
Cable Length	Standard: 10m, the maximum may be extended to 100m
Compatible Controller	AAC100-200; AAC100-400; AAP-C1000-200; AAP-PC-800

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APPLICATIONS

Water Treatment Plants
Ensures water quality compliance by measuring dye concentration in treated water.

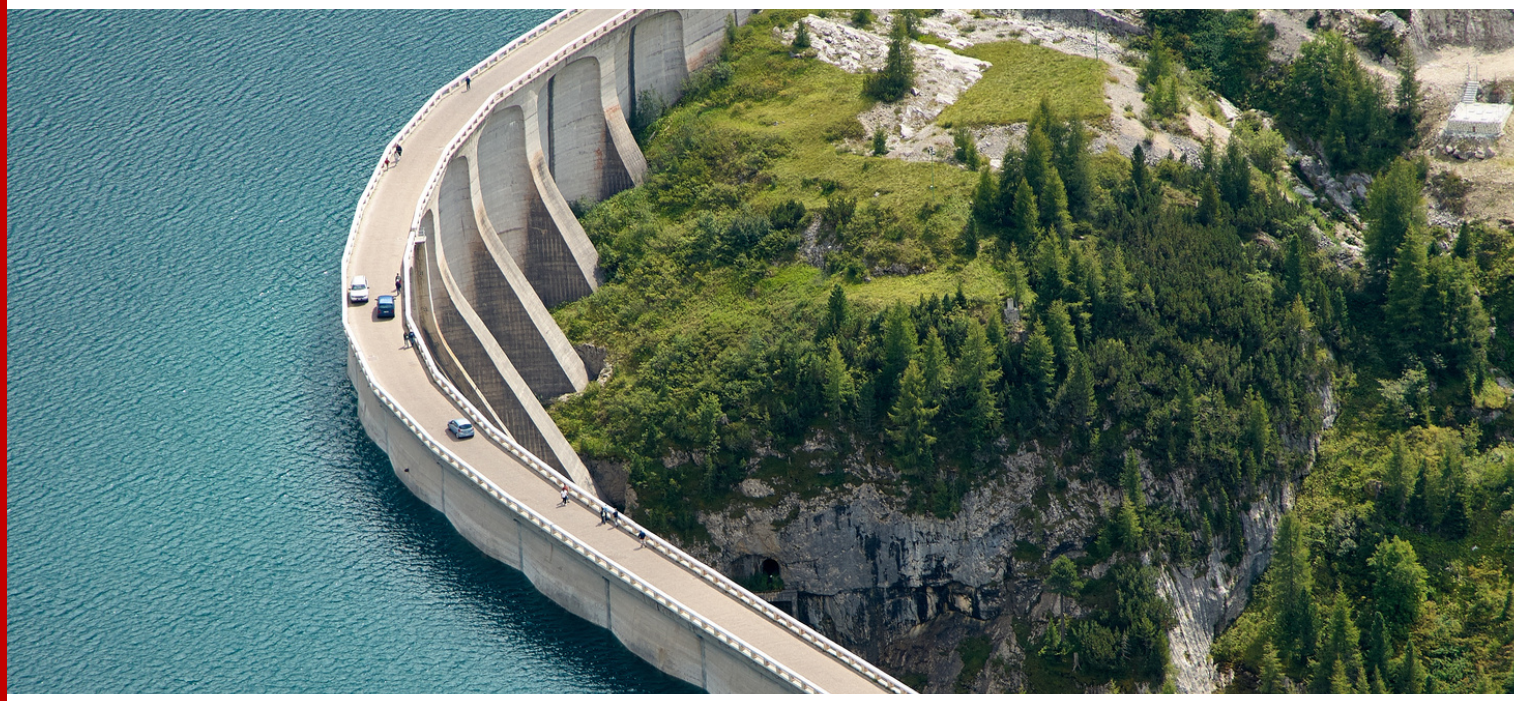
Industrial Processes
Monitors dye in industrial wastewater to prevent contamination.

Aquaculture
Helps manage aquatic health by tracking harmful dye levels in water.

Environmental Monitoring
Identifies pollution sources by tracking dye dispersion in watersheds.

Environmental Monitoring
Precise detection of Rhodamine B Dye levels in water for assessing pollution and environmental health.

Research & Studies
Rapid detection of dye dispersion aids field research and environmental assessments.



Note -

This data sheet serves as general information about the AAPCPHL-800A. 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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