



# AAPDO-700

Optical Dissolved Oxygen Sensor



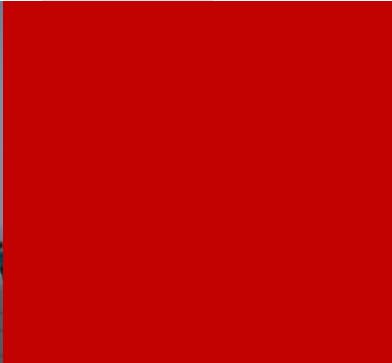
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# AAPDO-700

## Optical Dissolved Oxygen Sensor

The AAPDO-700 Optical Dissolved Oxygen Sensor utilizes fluorescence technology to accurately measure dissolved oxygen concentration. A luminescent material on the sensor's cap is excited by blue LED light, emitting red light. The intensity and time of the red light are indicative of oxygen molecule concentration, enabling precise calculations.



### Product Features

1. New oxygen-sensitive membrane design.
2. NTC temperature compensation function.
3. Measurement without oxygen consumption, flow rate, or stirring.
4. Utilizes breakthrough fluorescence technology.
5. Low maintenance requirements with built-in self-diagnosis.
6. Plug-and-play installation for easy setup.
7. Factory calibration with optional field calibration.
8. High anti-jamming digital sensor with standard signal output.
9. Integration and networking capabilities.



# AAPDO-700

## Technical Specifications

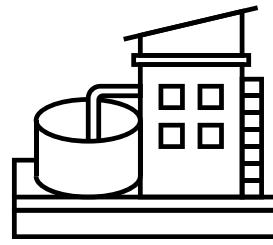
Physical Specifications	
Model	AAPDO-700
Dimensions	Compact design
Cable Material	PUR
Measurement Specifications - Conductivity	
Measurement Range	DO: 0-20 mg/L or 0-200% saturation
	Temperature: 0-45 °C
Accuracy	±2%F.S.
Resolution	0.01 mg/L
Repeatability	±0.3 mg/L
Pressure Range	≤0.3 Mpa
Calibration	
	Air automated calibration
	Sample calibration
Main Material	
Body	SS316L (fresh water)
	Titanium alloy (Ocean marine)
Cover	PPS+ glass fiber
Cable	PUR
Electrical Specifications	
Power Supply	AC: 85-500 VAC (50/60HZ)
	DC: 9~36 VDC
Output	3-way 4-20 mA
Relay	Three-way relays with programmable response parameters.
Communication and Environmental Specifications	
Communication Protocol	MODBUS RS485
Storage Temperature	-15-60 °C
Measuring Temperature	0-45 °C (Non-freezing)



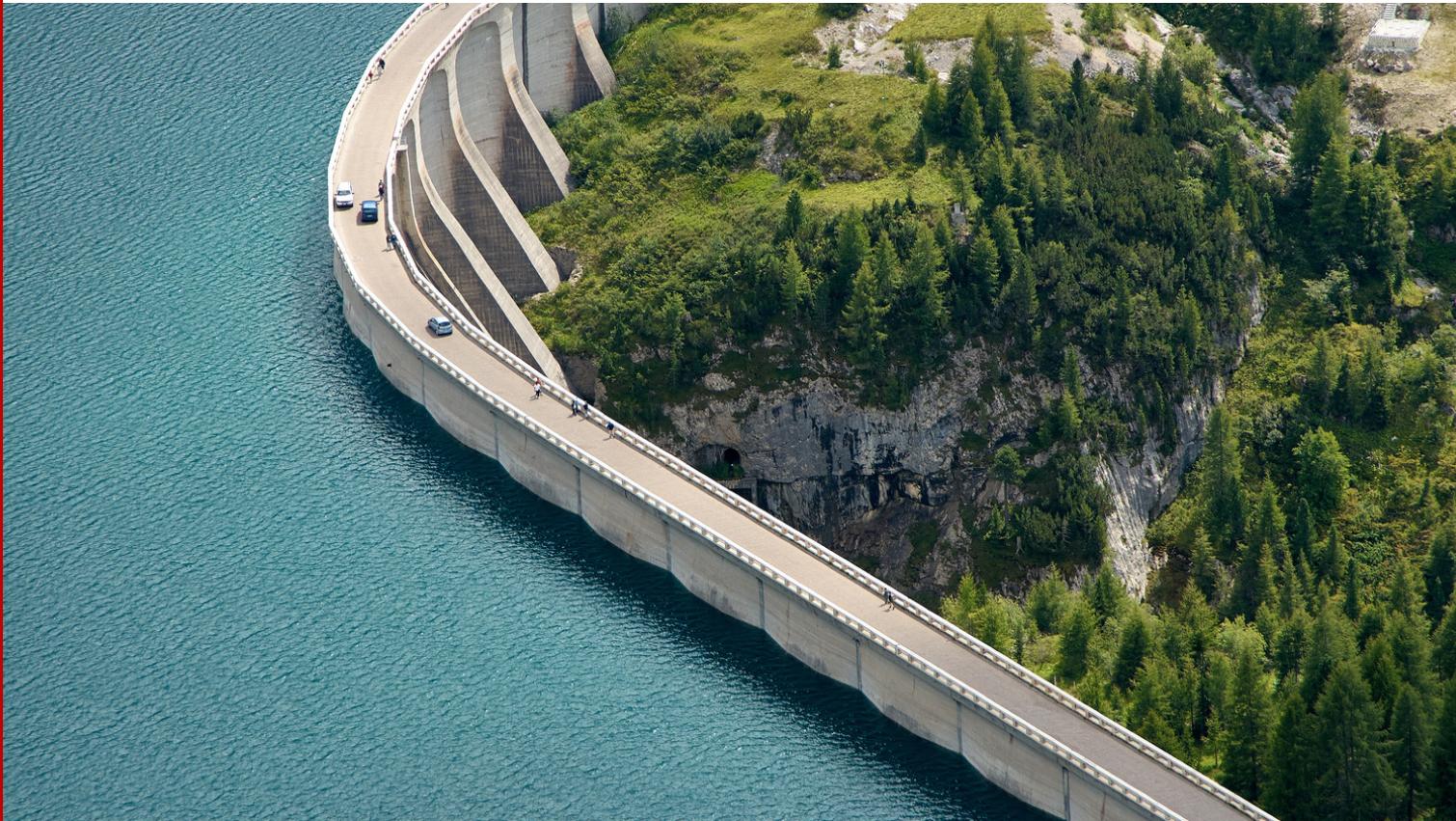
# APPLICATIONS



DO monitoring in regulating reservoirs, biochemical pools, and sewage treatment plant effluents.



DO monitoring in water treatment plants, surface water, industrial processes, and aquaculture.



## Note -

This data sheet serves as general information about the AAPDO-700. 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](mailto:info@advanceanalytik.com).

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