



# AAP-D0100

Dissolved Oxygen Sensor



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# AAP-D0100

## Dissolved Oxygen Sensor

The AAP-D0100 Dissolved Oxygen Sensor is a cutting-edge solution designed for precise and reliable measurements in various environments. Featuring a new oxygen-sensitive membrane with NTC temperature compensation, this sensor ensures excellent repeatability and stability. Breakthrough fluorescence technology eliminates the need for membranes and electrolytes, resulting in minimal maintenance. With built-in self-diagnosis, plug-and-play installation, and integration capabilities, the AAP-D0100 is a versatile solution for diverse applications.



## Product Features

- New Oxygen Sensitive Membrane:** Enhanced measurement repeatability and stability.
- NTC Temperature Compensated:** Accurate measurements in varying temperatures.
- No Oxygen Consumption:** Eliminates the need for flow rate and stirring.
- Breakthrough Fluorescence Technology:** Minimal maintenance requirements.
- Built-in Self-Diagnosis:** Ensures data accuracy and reliability.
- Plug-and-Play Installation:** Quick and easy setup.
- Factory Calibration:** No calibration needed for a year; field calibration supported.
- Digital Sensor:** High anti-jamming capacity and far transmission distance.
- Standard Digital Signal Output:** Integration and networking without a controller.



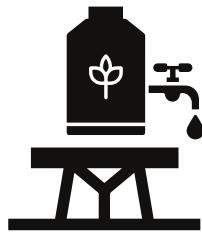
# AAP-D0100

## Technical Specifications

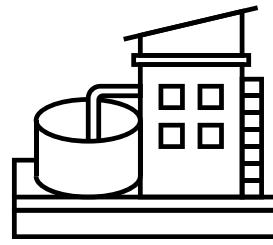
Physical Specifications	
Model	AAPDO-700
Measurement Specifications - Dissolved Oxygen	
Measurement Range	DO: 0-20 mg/L or 0-200% saturation
	Temperature: 0-45 °C
Output Resolution	0.01 mg/L
Repeatability	DO: ±3% or ±0.3 mg/L, whichever is greater
Calibration	Air automated calibration, sample calibration
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
Pressure Range	≤0.3 Mpa
Environmental Specifications	
Storage Temperature	-15-60 °C
Measuring Temperature	0-45 °C (Non-freezing)
Dimensions	Dia49.5mm * L 251.5mm
Weight	1.4 Kg
Protective Rate	Sensor: IP68/NEMA6P
Cable Length	Standard: 10m, extendable to 100m
Compatibility	
Compatible Controllers	AAC100-200, AAC100-400, AAP-C1000-200, AAP-PC-800
Performance and Communication	
Measurement Accuracy	±0.5
Communication Protocol	MODBUS RS485



# APPLICATIONS



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



Online 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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