



AADCOD

COD/BOD/TSS/TOC Sensor



AACOD

pH Sensor

The AACOD series COD/BOD/TSS/TOC sensor represents a new era in environmental protection sensors, offering reagent-free, pollution-free, economical, and eco-friendly water quality monitoring. This sensor is compact, easily installable, and enables online continuous monitoring. With automatic turbidity interference compensation and an integrated cleaning device, it maintains excellent stability even during prolonged monitoring. Utilizing the UV-Visible spectrum, this sensor measures the absorption of organic substances within the wavelength of 200 nm to 800 nm, enabling compensation for optical path attenuation and turbidity effects, ensuring consistent and reliable measurement values.



Product Features

- Digital sensor with RS-485 output, supporting MODBUS protocol.
- Reagent-free operation, environmentally friendly, and cost-effective.
- Capable of measuring COD, BOD, TSS, TOC, and other parameters.
- Automatic compensation for turbidity interference, ensuring high-performance measurements.



Technical Specifications

Measurement Method	
Measuring Method	UV-Vis spectroscopy
Wavelength	190 – 750 nm
Detector	512 pixels
Optical Path	1 nm, 3 mm, or 10 mm
Accuracy and Performance	
Accuracy	+/- 2% on standard solution
Response Time	< 1 min
Turbidity Compensation	Integrated by reference wavelength method
Light Source Lifetime	> 10 years
Physical Specifications	
Mounting	Immersion, maximum 10 meters
Probe Cleaning System	Self Cleaning with Wiper Mechanism
Cable Length	10 meters
Sensor Protection	Sensor Protection: IP68
Operating Temperature	0 °C to 50 °C
Operating Pressure	0 Bar to 3 Bar
Velocity	3 m/s max
Body Material	Stainless steel 316L (Titanium as an option)
Wet Materials	Quartz, FKM (Viton), Stainless steel or titanium (option)
Dimensions	54 x 500 mm
Weight	3 kg
Probe Warranty	1 year



APPLICATIONS



Water Treatment Plants

Essential for purification plants and hydrological systems, the PPH-500 pH Sensor ensures precise pH measurements, safeguarding the quality and safety of water supplies.



Industrial Effluent Monitoring

Facilitates continuous assessment of COD, BOD, TSS, and TOC in industrial effluents, aiding in pollution control and adherence to discharge standards.



Environmental Research

Supports ecological studies by providing insights into organic pollutant levels in natural water bodies, aiding in environmental conservation efforts.



Laboratory Analysis

Offers reliable measurements of COD, BOD, TSS, and TOC for research purposes, contributing to the development of advanced water quality assessment methods.



Process Optimization

Assists industries in optimizing their processes by monitoring COD, BOD, TSS, and TOC, enhancing efficiency and minimizing environmental impact.



Aquaculture Management

Facilitates the maintenance of suitable water quality parameters in aquaculture systems by assessing COD, BOD, TSS, and TOC, promoting healthier aquatic environments.



Wastewater Treatment Plants

Monitors the efficiency of wastewater treatment processes by continuously measuring COD, BOD, TSS, and TOC, ensuring effective removal of pollutants.



Food and Beverage Industry

Maintaining optimal pH levels in pools and fish ponds, the PPH-500 promotes aquatic life health and provides safe, enjoyable swimming experiences.



Note -

This data sheet serves as general information about the AACOD. 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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