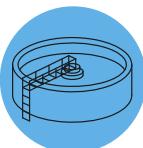




# PPH-500D

pH Sensor



# PPH-500D

## pH Sensor

The PPH-500D pH Sensor is a rugged and reliable solution designed to accurately measure pH levels in demanding environments. With its durable POM shell and advanced features, this sensor is well-suited for various industrial and laboratory applications. Offering a wide pH measuring range, precise temperature sensing, and rapid response times, it ensures accurate and dependable pH measurements for optimal process control.



## Product Features

- Durable POM Shell:** Built to withstand challenging environments, ensuring long-lasting performance.
- Wide Measuring Range:** Covers a pH range of 0-14, making it suitable for a variety of applications.
- Precise Temperature Measurement:** Equipped with a PT1000 temperature sensor for accurate temperature readings.
- High Slope and Rapid Response:** Offers a high slope of  $\geq 95\%$  and a quick response time of  $\leq 30$  seconds for reliable results.
- IP68/NEMA6P Protection:** Designed with a high protection class to endure harsh conditions.
- Mounting Options:** Features upper and lower R3/4 pipe thread mounting options for versatile installation.
- Flexible Cable Length:** Standard 10-meter cable, extendable up to 50 meters, allowing convenient placement.



# PPH-500D

## Technical Specifications

Physical Specifications	
Main Material	POM shell
Dimensions	Dia. 26mm * Length 166mm
Cable Length	Standard: 10M, Max. extended to 50M
Measurement Specifications - pH	
Measuring Range	0-14 pH
Slope	≥95%
Response Time	≤30 Seconds (at 95% of the end value) (after stirring)
Measurement Specifications - Temperature	
Temperature Range	0-80°C (Not frozen)
Temperature Sensor	PT1000
Pressure Specifications	
Pressure Range	≤0.6Mpa
Protection and Mounting	
Protection Class	IP68/NEMA6P
Protection Class	Upper and lower R3/4 pipe thread

### Measurement Principle

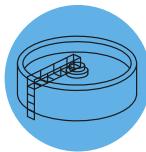
The pH Sensor utilizes a composite electrode comprising a glass indicator electrode and a reference electrode. The potential of the internal reference electrode within the glass electrode remains constant irrespective of the pH of the solution being measured. As the glass bubble interacts with changing H<sup>+</sup> concentration in the test solution, the voltmeter reads the difference between the stable potential of the reference electrode and the potential generated by the glass ball, providing accurate pH measurement.



# APPLICATIONS



**Sewage Plants**  
Optimize pH levels in wastewater treatment processes.



**Water Plants**  
Ensure precise pH measurement in water treatment facilities.



**Industrial Processes**  
Support diverse industries requiring accurate pH control.



**Water Stations**  
Monitor pH for quality assessment and control.



**Surface Water**  
Measure pH in natural water bodies and reservoirs.



**Aquaculture**  
Maintain optimal pH for healthy aquatic environments.



## Note -

This data sheet serves as general information about the PPH-500D. 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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