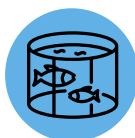
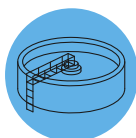




# PPH-500

pH Sensor



[www.advanceanalytik.com/products/sensors](http://www.advanceanalytik.com/products/sensors)

**ADVANCE  
ANALYTIK**

# PPH-500

## pH Sensor

The PPH-500 pH Sensor is an essential tool for accurate pH monitoring across various applications, including water treatment, hydrological monitoring, wastewater treatment, swimming pools, fish ponds, and industries such as fertilizers, chemicals, and biology. Designed with a composite electrode that combines a glass indicating electrode and a reference electrode, this sensor provides reliable pH measurement for water-based environments.



## Product Features

1. **Electrical Safety Assurance:** Designed with power supply and output isolation for enhanced electrical safety.
2. **Anti-Interference Design:** Built-in protection circuit for power supply and communication chip, ensuring strong anti-interference capability.
3. **Comprehensive Protection:** Equipped with a robust protection circuit design, enabling reliable operation without additional equipment.
4. **Internal Circuit Design:** Circuit part integrated within the electrode, tolerating varying environments and simplifying installation.
5. **Communication Interface:** RS-485 transmission interface, MODBUS-RTU communication protocol, enabling two-way communication and remote command reception.
6. **Advanced Diagnostics:** Offers additional electrode diagnostic information, enhancing intelligent monitoring capabilities.
7. **Integrated Memory:** Internal memory stores calibration and setting information for seamless retrieval.



# PPH-500

## Technical Specifications

### Electrical Specifications

Power Supply and Output Isolation	Ensures electrical safety
Built-in Protection Circuit	Strong anti-interference capability.
RS-485 Communication Interface	MODBUS-RTU protocol for two-way communication and remote commands.

### Physical Specifications

Main Material	Black Polypropylene, Ag/AgCl Reference Gel
Weight	Sensor: 0.2KG
Dimensions	Dia. 28.7mm * Length 195mm
Cable Length	Standard: 10m, extendable to 20M

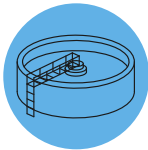
### Measurement Specifications

Measurement Range	0-14pH
Temperature Range	0-80°C (Non-freezing)
Pressure Range	≤0.6Mpa
Zero Potential pH Value	7±0.25pH (15mV)
Slope	≥95%
Internal Resistance	≤250MΩ
Alkaline Error	0.2pH (1mol/L Na+ pH14) (25°C)
Response Time	≤10 seconds (After stirring)





# APPLICATIONS

**Water Treatment Plants**

Accurate pH measurement for effective water treatment processes.

**Hydrological Monitoring**

Essential for monitoring pH levels in natural water bodies.

**Wastewater Treatment**

Facilitates pH control in wastewater treatment systems.

**Swimming Pools**

Maintains optimal pH for safe and comfortable swimming environments.

**Fish Ponds**

Ensures suitable pH conditions for aquatic life.

**Fertilizers, Chemicals, and Biology Industries**

Supports pH monitoring in various industrial processes.

**Note -**

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



# **ADVANCE ANALYTIK**



**Advance Analytik KFT**  
**1024, Keleti Karoly utca 48.**  
**fszt. Budapest**  
**+36 70 328 6862**  
**[sales@advanceanalytik.com](mailto:sales@advanceanalytik.com)**



**[www.advanceanalytik.com](http://www.advanceanalytik.com)**