TECHNICAL DATASHEET · AQUACULTURE & WATER QUALITY INSTRUMENTATION

AQPT-MP Portable Multi-Parameter Analyzer for Aquaculture

Product Overview

The AQPT-MP Portable Multi-Parameter Analyzer adopts a measurement principle where a main controller works with digital sensors in a plug-and-play manner. Compared to traditional reagent-based testing equipment, it offers simpler operation and higher efficiency, making it suitable for various scenarios such as lakes, rivers, and wastewater.

The controller is powered by a large-capacity lithium battery, providing longer standby and usage time, reducing concerns about power outages. The main body features an ergonomic design for a more comfortable grip.

All sensors use RS485 digital communication for more stable data transmission.



AQPT-MP Controller

Controller Technical Specifications

Parameter	Specification	Parameter	Specification
Dimensions	186 × 108 × 52 mm	**Power Supply**	10000 mAh built-in lithium battery
Main Material	ABS + PC	**Display**	3.5-inch color display screen, adjustable backlight
Protection Level	IP66	**Data Storage**	16 MB data storage space, approximately 360,000 data sets
Storage Temperature	−15 to 40 °C	**Charging**	Type-C
Weight	0.40 kg	**Data Export**	Type-C

Digital Sensor Specifications

Dissolved Oxygen Sensor (Optional)

Parameter	Specification	Product Image
Measurement Range	0–20 mg/L, 0–200%	
Accuracy	±1% F.S.	
Resolution	0.01 mg/L, 0.1%	
Calibration	Water sample calibration	
Housing Material	PP + SUS316L	
Operating Temperature	0 to 50 °C	
Dimensions	Diameter 27 mm × Length 184 mm	
Weight	0.1 kg	
Protection Level	IP68	
Cable Length	Standard 5 m cable (extendable)	

COD Sensor (Optional)

Parameter	Specification	Product Image
Measurement Range	COD: 0.1–500 mg/L	
Accuracy	±5%	
Resolution	0.1 mg/L	
Calibration	Standard solution calibration, water sample calibration	
Housing Material	SUS316L + POM	
Operating Temperature	0 to 40 °C	
Dimensions	Diameter 32 mm × Length 189 mm	
Weight	0.35 kg	
Protection Level	IP68	
Cable Length	Standard 5 m cable (extendable)	

Turbidity Sensor (Optional)

Parameter	Specification	Product Image
Measurement Range	0.001–4000 NTU	
Accuracy	Less than ±5% of the measured value	
Resolution	0.001 / 0.01 / 0.1 / 1	
Calibration	Standard solution calibration, water sample calibration	
Housing Material	SUS316L + POM	
Operating Temperature	0 to 40 °C	
Dimensions	Diameter 50 mm × Length 202 mm	
Weight	0.6 kg	
Protection Level	IP68	
Cable Length	Standard 5 m cable (extendable)	

pH Sensor

Parameter	Specification	Product Image
Measurement Principle	Glass electrode method	
Range	0–14 pH	
Accuracy	±0.2 pH	
Resolution	0.01 pH	
Repeatability	±0.01 pH	
Response Time	≤12 s	
Weight	0.1 kg	
Protection Level	IP68	
Cable Length	Standard 5 m cable (extendable)	

ORP Sensor

Parameter	Specification	Product Image
Measurement Principle	Potentiometric method	
Range	±1000 mV	
Accuracy	±5 mV	
Resolution	1 mV	
Repeatability	±5 mV	
Response Time	≤12 s	
Weight	0.1 kg	
Protection Level	IP68	
Cable Length	Standard 5 m cable (extendable)	

Conductivity / Salinity Sensor

Parameter	Specification	Product Image
Measurement Principle	Conductivity method	
Range	Conductivity: 0–30 mS/cm; 0–500 mS/cm Salinity: 0–10000 ppm; 0–700000 ppm	
Accuracy	±1% F.S.	
Resolution	0.01 / 0.1 / 1	
Repeatability	≤0.5%	
Response Time	10 s	
Weight	0.1 kg	
Protection Level	IP68	
Cable Length	Standard 5 m cable (extendable)	

Suspended Solids Sensor (Optional)

Parameter	Specification	Product Image
Measurement Range	0.001–100000 mg/L	
Accuracy	< ±5% of measured value	
Resolution	0.001 / 0.01 / 0.1 / 1	
Calibration	Standard solution calibration, water sample calibration	
Housing Material	SUS316L + POM	
Operating Temperature	0 to 40 °C	

Parameter	Specification	Product Image
Dimensions	Diameter 50 mm × Length 202 mm	
Weight	0.6 kg	
Protection Rating	IP68	
Cable Length	Standard 5 m (extendable)	

> **Note:** Multi-parameter electrodes are optional. If multi-parameter testing is required, please specify the corresponding test factors and select the appropriate sensors when placing the order.