AQ-MP Multi-Parameter Aquaculture Online Monitor





pH/ORP EC/Sal DO TURB

➢ Product Introduction

Based on optical and electrochemical measurement principles, this multi-parameter aquaculture online monitor is capable of monitoring temperature, pH/ORP, conductivity/salinity, turbidity, dissolved oxygen, COD, ammonia nitrogen, nitrate nitrogen, chlorophyll, blue-green algae and other water quality parameters.

Display **4.3-inch color touch screen, Chinese/English interface, easy to operate**

Data logging **Supports data storage and review; the logging interval is user-configurable**

Signal outputs **a: 1-channel RS485 Modbus RTU standard protocol;**

b: 2-channel relay output as standard (max. 4 channels on custom order), programmable output for aerator control

c: 4G wireless upload (optional)

Password protection **Calibration data is password-protected to prevent misoperation by non-professionals**

➢ Product Features

1. Digital smart sensors are plug-and-play, arbitrarily combinable, and automatically recognized by the controller;

2. Configurable as a single-, dual- or multi-parameter controller for better cost saving;
3. Automatically reads the sensor's internal calibration records; no re-calibration needed after sensor replacement, saving time;
4. New-generation circuit design concept, extremely low failure rate and strong anti-interference capability;
5. IP65 ingress protection, suitable for various indoor and outdoor installation requirements;

➢ Technical Specifications:

Item	Parameters	Item	Parameters
pH		**ORP**	
Measuring principle	Glass electrode method	Measuring principle	Redox potential method
Range	0~14 pH	Range	-1000 mV~+1000 mV
Accuracy	±0.05pH	Accuracy	±3 mV
Resolution	0.01 pH	Resolution	1 mV
Dissolved Oxygen		**Conductivity/Salinity**	
Measuring principle	Optical fluorescence method	Measuring principle	Two-electrode cell
Range	0~20 mg/L ; 0~200 %	Range	Conductivity: 0~20ms/cm Salinity: 0~10000 ppm
Accuracy	±1 % F.S	Accuracy	±1%
Resolution	0.01mg/L	Resolution	0.01/0.1/1
Turbidity		**Conductivity/Salinity**	
Measuring principle	140° transmitted light	Measuring principle	Four-electrode cell
Range	0~4000 NTU	Range	Conductivity: 0~500ms/cm Salinity: 0~700000 ppm
Accuracy	±5%	Accuracy	±1%
Resolution	0.01/0.1/1	Resolution	0.01/0.1/1
Water Temperature (built-in in selected sensors)			
Measuring principle	RTD resistor	Accuracy	±0.3℃
Measuring range	0 ℃~60 ℃		
Controller			
Dimension	208 × 145 × 55 mm, wall-mounted	Power supply	100–240 VAC or 12 VDC
Ingress protection	IP65	Max power	Pmax 6 W
Weight	Approx. 1.0 kg		