# pH Water Quality Sensor



# **WQS-pH Series**

RoHS

CE

### Overview

The pH water quality sensor uses a composite electrode that combines a glass indicator electrode and a reference electrode to measure the pH of water. The potential of the internal reference electrode in the glass electrode is constant regardless of the pH of the solution to be measured. When the glass bubble is immersed in the test solution with changing H+ concentration, the difference between the stable potential of the reference electrode and the potential generated by the glass ball will be read by the voltmeter and used as the measurement

The pH sensor supports RS485 output mode, and the transmitter module is miniaturized and integrated with pH electrode. pH sensor is widely used in drinking water, pipeline water, surface water and all kinds of wastewater.



#### **Main Features**

- Electrodynamic measurement, no pollution, friendly to the environment
- Quick measurement, the shortest measurement cycle is 1 second
- RS485 communication mode, can quickly connect the meter head, control the sensor
- IP68 protection grade, can be used in harsh environments
- Low power consumption, can be powered by battery, convenient for equipment deployment

### **Specifications**

Principle	Glass electrode method	Pressure	1 bar	
Dimension	φ25×228 mm	Installation	Submerged, flow-through	
Power requirements	DC+12 V ~ +24 V	Sample flow rate	200-500 mL/min	
Operating temperature	2 to 45°C	Communication	RS485(Modbus RTU), Bluetooth	

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### Parameter information

Parameter	Model No.	Range	Resolution Accuracy	
рН	WQS-pH	1-14 pH	0.01 pH	±0.1 pH
Temperature	WQS-pH	0-50 °C	0.1 °C	±1 ° C
Model	Description	Application	IP rating	Pictures
WQS-pH-S01	5 pole aviation plug with waterproof connection	Surface water or drinking water	- IP65	<b>4</b>
WQS-pH-S02	-	Sewage		
WQS-pH-S11	Cable straight out with	Surface water or drinking water	- IP68	=84
WQS-pH-S12	waterproof connection thread	Sewage		
WQS-pH-A01	E polo aviation plus	Surface water or drinking water	- IP65	4
WQS-pH-A02	5 pole aviation plug	Sewage		
WQS-pH-A11	Cable attraight out	Surface water or drinking water	IP68	=======================================
WQS-pH-A12	Cable straight out	Sewage		

### **Application**



Urban sewage



Drinking Water



Industrial wastewater



Surface water



Seawater, fishery, aquaculture

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