

pH Water Quality Sensor

WQS-pH Series



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 result.

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	
pH	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 thread	Surface water or drinking water	IP65	
WQS-pH-S02		Sewage		
WQS-pH-S11	Cable straight out with waterproof connection thread	Surface water or drinking water	IP68	
WQS-pH-S12		Sewage		
WQS-pH-A01	5 pole aviation plug	Surface water or drinking water	IP65	
WQS-pH-A02		Sewage		
WQS-pH-A11	Cable straight out	Surface water or drinking water	IP68	
WQS-pH-A12		Sewage		

Application



Urban sewage



Industrial wastewater



Seawater, fishery, aquaculture



Drinking Water



Surface water