

# Dissolved Oxygen Water Quality Sensor

## WQS-DO Series



RoHS

CE

### Overview

The dissolved oxygen water quality sensor is based on the principle of fluorescence quenching. When light shines on the fluorescent material, the fluorescent material will be excited and emit red light. Since oxygen molecules can take away energy, the time of excited red light is inversely proportional to the concentration of oxygen molecules. The concentration of dissolved oxygen can be calculated by measuring the duration of red light. WQS-DO sensor can meet all the requirements of field operation and long-term or short-term test. On the premise of not consuming oxygen, fluorescence technology can provide users with accurate measurement data for all measurement environments, especially those with low oxygen concentration.



### Main Features

- Optical in-situ measurement, no actual pollution, environmentally friendly
- Fast measurement, the fastest measurement cycle is 10 second
- Long maintenance-free cycle, with its own cleaning brush for cleaning
- RS485 communication mode, can quickly connect to 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



Self Cleaning Brush

### Specifications

Principle	Fluorescence method	Pressure	6 bar
Dimension	φ30×225 mm	Material	AISI 316L
Power requirements	DC+12 V ~ +24 V	Cleaning method	Cleaning brush
Measurement period	10 to 65535 seconds	Sample flow rate	<3 m/s
Operating temperature	0 to 50°C	Communication	RS485(Modbus RTU), Bluetooth

optical

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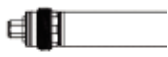



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### Parameter information

Parameter	Model No.	Range	Resolution	Accuracy
DO	WQS-DO	0-20 mg/L, 0-200%	0.01mg/L, 0.1%	±0.1mg/L

Model	Description	IP rating	Application
WQS-DO-S01	5 pole aviation plug with waterproof connection thread	IP65	
WQS-DO-S11	Cable extending directly with waterproof connection thread	IP68	
WQS-DO-P01	5 pole aviation plug	IP65	
WQS-DO-P11	Cable extending directly	IP68	

### Application



Urban sewage



Industrial water



Seawater, fishery, aquaculture



Drinking Water



Surface water

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