



PRODUCT OVERVIEW

WATER QUALITY ANALYSIS EQUIPMENT

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Dissolved Oxygen Meter



Model : D30

Profiles

Dissolved Oxygen Meter is one of the intelligent online chemical analysis instruments. It is widely used in continuous monitoring of dissolved oxygen, saturation, oxygen partial pressure and temperature. The continuous monitoring data is realized by remote transmission monitoring and recording through the transmission output connection recorder. It can also be connected to the RS485 interface and can be easily connected to the computer for monitoring and recording through the MODBUS-RTU protocol.

Feature

1. Adopt photoelectric technology with low maintenance rate and high reliability
2. No oxygen consumption, no flow rate requirement, and still water can be measured
3. Good compatibility. The sensor provides 4-20ma signals, which can be exchanged with the E+H sensor
4. Strong anti-interference ability, full digital processing technology and full stainless steel enclosure shielding.
5. Automatic temperature pressure compensation

Technical parameters

Basic Parameters	Fluorescent dissolved oxygen electrode
Model	D30
Measurement Range	DO:0-20 mg/L
Response Time	t90 : 30s
Measurement Accuracy	±3% of the value
repetitive Accuracy	±0.5% of the value
Main Materials	316SS, Daicel
Working Life	5year
Working Temperature	-20 ~ +55 °C
Pressure Range	<10Bar
Waterproof Rate	IP68
Calibration	Sample Calibration
Input	DC24V
Weight	0.7Kg

Working principle

The fluorescent dissolved oxygen probe consists of three parts: optical path system, fluorescence sensitive film and optical detection system. When the probe is inserted into the medium under test, the oxygen in the medium diffuses into the silicone molecular layer and quickly reaches equilibrium. The blue light is modulated to the fluorescent layer, and the fluorescent molecules produce red fluorescence. The fluorescence intensity and response time changed with oxygen content after the fluorescence molecules were quenched after encountering oxygen. The change of fluorescence response time was detected to determine oxygen content.

Application

- ◇ Measure and regulate dissolved oxygen in activated sludge tank
- ◇ Measure oxygen content in rivers, lakes and seas and monitor water quality
- ◇ Real-time monitoring and regulation of oxygen content in aquaculture water provides the best environment for fish growth
- ◇ Detect oxygen content of circulating water in power plant, reduce equipment corrosion and save medicine



Aquaculture



Sewage Disposal



Pharmaceutical