

WSDO2001 is a dissolved oxygen sensor designed specifically for high temperature use. It can withstand steam sterilization up to 130 °C.

It uses the Polarography Principle, where the electrodes are polarized by a constant voltage. Oxygen present in the water body diffuses through the membrane and gives up its electrons. This electrical change is detected and converted to DO readings.

Applications

Continuous monitoring of DO values in

- small microbial culture reactors
- environmental monitoring
- wastewater treatment
- aquaculture

Features

- Dissolved Oxygen Electrode applicable for Polarography Principle
- With imported breathable membrane heads
- Fluorine plastic, silicone, stainless steel wire mesh composite membrane
- Platinum cathode; Silver anode; Potassium chloride electrolyte
- Endure high temperature, No deformation characteristics



Technical Specification

Specification	
Measuring range	0~100 µg/l; 0~20mg/l
Temperature	0~130 °C
Zero oxygen	<5ppb (60min)
Temperature compensation	PT1000
Polarisation time	>8hr
Polarisation voltage	0.7V
Cathode/Anode	Platinum/ Silver
Membrane material	Fluorine permeable plastic, silicone, stainless steel wire mesh composite
Electrode body material	316L stainless steel
Air current	60nA
Response time	~60secs (95%)
Drift	<3%/week
Electrode diameter	12, 19, 25 mm optional
Electrode insertion length	80, 150, 200, 250, 300 mm