

WSDO4051 is a dissolved oxygen sensor which has been improved from the previous designs. Featuring a stainless steel grit mesh membrane instead of the standard silicone diaphragm membrane.

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

- Urban sewage treatment
- Industrial wastewater
- Aquaculture
- Environment monitoring and more



Features

- Dissolved Oxygen Electrode applicable for Polarography Principle
- High stability and reliability, which can be used in the harsh environment.
- Less maintenance
- Imported stainless steel grit mesh membrane
- Ultra-resistant to pressure (0.6MPa)

Technical Specification

Specification	
Measuring range	0~20mg/l
Temperature	0~60 °C
Polarisation time	60 min
Polarisation voltage	0.7V
Accuracy	<± 0.1 mg/l
Drift	<2%/month
Zero oxygen	<0.1mg/l (5min)
Membrane	Stainless steel 100 µm
Electrode shell material	PVC , 316L stainless steel
Output current	50~80 nA/0.1mg/l (Max. current 3.5µA)
Temperature compensation	PT100, PT1000, 22K, 2.252K etc.
Electrolyte	KCl
Calibration	>60 days
Cable length	5m (can be modified)
Response time	2 min (90%, 20 °C)
Sensor life	>2 years
Detection	Lower limit: 0.01 mg/L (20°C) Upper limit: 40mg/l
Minimum flow rate	2.5 cm/s