WSDO1001 DO SENSOR

Pure Water DO Sensor

WSDO1001 is a dissolved oxygen sensor designed to meet corrosion resistance, shape retention and ppb-level measurements.

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

- Boiler water and condensates
- Thermal power plants
- Power plant desalted water
- Places with trace oxygen content

Features

- Dissolved Oxygen Electrode applicable for Polarography Principle
- The silicone rubber permeable membrane imported from U.S. serves as the permeable membrane and a steel gauze.
- It is collision resistant, corrosion resistant, high temperature resistant and has shape retention

Technical Specification

Specification	
Measuring range	0~100 μg/l; 0~20mg/l
Temperature	0~60 °C
Polarisation time	> 8hrs
Polarisation voltage	0.7V
Accuracy	± 1 ppb
Drift	<3%/month
Zero oxygen	<5ppb (60min)
Cathode/Anode	Platinum/ Ag or AgCl
Membrane	Silicone rubber permeable
Housing material	316L stainless steel
Air current	50-80nA (Max current 20-25μA)
Temperature compensation	2.252K, 22K, PT100, PT1000
Electrolyte	0.1M KCl
Calibration	60 days
Cable length	5m (double shielded) can be modified
Response time	≤3 min (90%, 20 °C)
Detection Limit	Lower 0.1μg/l (ppb) 20°C Upper 20 mg/l (ppm)
Sensor life	~3 years
Min. flow rate	5 cm/s ; 515 l/h