



DOG-208F Industrial Pure Water Dissolved Oxygen Electrode



This DOG-208F is to trace ppb($\mu\text{g/L}$) level of dissolved oxygen, it will measure accurately in pure water processes. Monitoring at trace low oxygen levels in critical processes will allow quick response and minimize costly downtime. DOG-208F ppb dissolved oxygen sensor accurately measures trace levels of dissolved oxygen down to 1 ppb. Best performance is achieved when used in applications where process temperature, flow and pressure are stable.

Main Features

- 1) Simple calibration
- 2) Very little maintenance required
- 3) Easy electrolyte recharge and membrane replacement
- 4) Compact design
- 5) Long maintenance interval

Main Features

Measuring range: 0-100 $\mu\text{g/L}$, 0~200 $\mu\text{g/L}$, 0-20 mg/L

Electrode material: 316L stainless steel

Temperature compensation resistor: 2.252K 22K Pt100 Pt1000 etc

Sensor life: >3 years

Cable length: 5m (double shielded)

Detection lower Limit: 0.1 $\mu\text{g/L}$ (ppb)(20°C)

Measurement upper limit: 20 mg/l (ppm)

Response time: $\leq 3\text{min}$ (90%, 20°C)

Polarization time: >8h

Minimum flow rate: 5 cm/s ; 515 L/h

Drift: <3%/month

Measurement error: $\leq \pm 1$ ppb

Air current: 50-80nA Note: Maximum current 20-25 μA

Polarization voltage: 0.7V

Zero Oxygen: <5ppb(60min)

Calibration intervals: >60 days

Measured water temperature: 0~60°C

Application

Thermal power plants, power plant desalted water, boiler feed water, beer etc places of trace ppb oxygen content.