

DurOx 325 Dissolved Oxygen Electrode

Galvanic oxygen electrodes for DO meters



- Temperature compensation
- Long working life - up to 6 months
- Protective hood standard

Specifications

Measuring Principle: Membrane covered galvanic sensor
Temperature Compensation: IMT
Measurement Range (20 °C, 1013 hPa): 0 - 50 mg/L O₂
Temperature Range: 32 to +104°F (0 to +40°C)
Maximum Pressure: 14.5 psi (10⁵ Pa (1 bar))
Immersion Depth: 1.6 inches min/19.7 ft max (4 cm min/6 m max)
Operating Position: Any
Incident Flow:
 0.08 ft/s (2.5 cm/s) at 10% meas. accuracy
 0.16 ft/s (5 cm/s) at 5% meas. Accuracy
Zero Signal: <1% from saturation value
Response Time at 68°F (20°C):
 t₉₀ (90 % of indication of end value after) < 25 s
 t₉₅ (95 % of indication of end value after) < 40 s
 t₉₉ (99 % of indication of end value after) < 125 s
Self Consumption at 68°F (20°C): 0.006 ug h⁻¹ (mg/L)
Temperature Adaptation: IMT compensation
Drift: Approximately 3%/month in operation conditions
Operation Time: Approximately 6 months per electrolyte refill
Material:

Membrane Head: POM
Membrane: FEP
Thermistor Housing: VA-steel 1.4571
Shaft: POM
Cable Screw Joint: POM

Size of Probe:
Electrode Shaft: 4.3 inches L x 0.7 inches Dia. (110 mm L x 17.5 mm Dia.)
Membrane thickness: 0.98 mil (25 um)
Weight: 0.5 lb. (220 g) w/9.9 ft (3 m) of cable

Options and Accessories

DurOx 325-3 Dissolved Oxygen Electrode
 Cable length 9.9 ft (3 m)

DurOx 325-6 Dissolved Oxygen Electrode
 Cable length 19.8 ft (6 m)

ELY/G Dissolved Oxygen Electrode Electrolyte

WP3-D Dissolved Oxygen Electrode Membrane Heads

Description

The DurOx 325 dissolved oxygen electrodes are easy to use and maintain electrodes for taking dissolved oxygen measurements in the field. The DO electrodes are temperature compensated and waterproof to the IP 68 standard or up to 2 bar. The electrodes have a long working life of up to six months from one electrolyte refill. An easy to use calibration vessel is included with each dissolved oxygen electrode as well as a protective hood for field use. The DO electrodes can be easily cleaned with warm water for many applications.

Applications

The DurOx 325 dissolved oxygen electrode is ideal for monitoring oxygen levels on fish farms, in control measurements, and at wastewater treatment plants, specifically in the aeration basin. With the Oxi 3205 handheld field meters the electrodes are ideal for routine field measurements. The Oxi 3210 meter raises the performance level of the DO electrodes to a point where they are recommended for highly precise control and quality assurance measurements.

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