

CellOx 325 DO Electrode

Galvanic oxygen electrodes for DO meters



- Temperature compensation
- Long working life - up to 6 months
- Rapid response
- Membrane leakage monitoring

Specifications

Measuring Principle: Membrane covered galvanic sensor
Temperature Compensation: IMT
Measurement Range at 68°F (20°C): 0 to 50 mg/L O₂, 0 to 600% O₂ saturation, 0 to 1250 mbar O₂ partial pressure
Temperature Range: 32 to +122°F (0 to +50°C)
Maximum Allowed Overpressure: 87 psi (6 bar)
Immersion Depth: 2.36 inches min/65.6 ft max (depending on cable length) (6 cm min/20 m max(depend on cable length))
Operating Position: Any
Approach Flow:
 0.1 ft/s (3 cm/s) at 10% meas. accuracy
 0.33 ft/s (10 cm/s) at 5% meas. accuracy
 0.59 ft/s (18 cm/s) at 1% meas. Accuracy
Zero Signal: <0.1% of the saturation value
Response Time at 68°F (20°C):
 t₉₀ (90 % of indication of end value after) < 10 s
 t₉₅ (95 % of indication of end value after) < 16 s
 t₉₉ (99 % of indication of end value after) < 60 s
Self Consumption at 68°F (20°C): 0.008 ug h⁻¹ (mg/L)⁻¹
Drift: Approximately 3%/month in operation conditions
Working Life: Approximately 6 months per electrolyte refill
Cable Length: Varies up to 65.6 ft (20 m)
Cable Plug: 8 pin socket
Cable Diameter: 0.24 inches (6 mm)
Material:
 Membrane Head: POM
 Membrane: FEP
 Thermistor Housing: VA-steel 1.4571
 Shaft: POM
 Cable Screw Joint: POM
Size of Probe:
 Electrode Shaft: 5.7 inches L x 0.6 inches Dia. (145 mm L x 15.25 mm Dia.)
 Membrane thickness: 0.51 mil (13 um)
 Weight: 0.37 lb. (170 g) w/4.9 ft (1.5 m) of cable

Description

The CellOx 325 Dissolved Oxygen (DO) electrodes are easy to use and maintain electrodes for taking field measurements. The electrodes are temperature compensated and waterproof to the IP 68 standard. They have a long working life of up to six months from one electrolyte refill. Plastic or steel armoring is available for the electrodes to protect them from harsh field conditions. The DO electrodes can be easily cleaned with warm water for many applications and come with a vial of cleaning solution for the counter electrode.

Applications

The CellOx 325 DO electrode is ideal for monitoring DO levels in lakes, rivers, streams, in control measurements, in laboratories, and biotechnology applications. 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, quality assurance, and field measurements. With the Oxi 1970i rugged field meters the DO electrode measurements can be controlled with a computer, stored in the 800 dataset memory, and supported using GLP requirements.

Options and Accessories

CellOx 325 DO Electrode
 Cable length 4.9 ft (1.5 m)

CellOx 325-3 DO Electrode
 Cable length 9.9 ft (3 m)

CellOx 325-6 DO Electrode
 Cable length 19.8 ft (6 m)

WP 90/3 DO Electrode Membrane Heads

ELY/G DO Electrode Electrolyte

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