

CellOx 325 DO Electrode

Galvanic oxygen electrodes for DO meters



Description

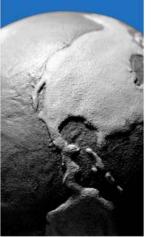
The CellOx 325 Dissolved Oxygen (DO) electrodes are easy to use and maintain electrodes for taking field measurements. The electrodes are temperature compensated and waterproof to the IP 68 standard. They have a long working life of up to six months from one electrolyte refill. Plastic or steel armoring 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.

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Control





a **xylem** brand

- 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(depending 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).

 t_{90} (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

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

In the U.S. call toll free at 1-800-876-1172 International: 1-979-690-5560 Fax: 1-979-690-0440

Email: globalw@globalw.com

Visit our online catalog at: www.globalw.com Our Address: 11390 Amalgam Way Gold River, CA 95670