

Oxygen sensor | Clark electrode

max. depth 2,000 m.



Sea & Sun
Technology

This version of a dissolved oxygen sensor is a membrane-covered galvanic cell that generates its own voltage. The sensor is designed for long-term measurements in ponds, lakes and oceans at depths up to 2,000 m.

Due to an ingenious pressure compensation system the sensor is insensitive to pressure changes and has a built-in temperature compensation. It is, unlike some other types of dissolved oxygen sensors, not sensitive to hydrogen sulphide.

The DO sensor delivers a millivolt output directly proportional to the oxygen pressure that it senses.

The sensor has a limited lifetime of typical 12 – 16 months, then the membrane requires replacement.



ADVANTAGES

- + max. depth 2,000 m
- + integrable into all probes

Oxygen sensor / Clark electrode

Pressure resistance	2,000 dbar
Measuring range / resolution	0...600% saturation with resolution of 1% saturation
Output signal	10...40 mV
Accuracy	± 3%
Repeatability	± 1%
Response time	10 s at 20°C, temperature dependant
Principle	Clark electrode, self galvanizing
Temperature range	-5...45°C
Dimensions	87 mm (outside probe)
Used for	CTD48, CTD48M, CTD48c, CTD48Mc, CTD75M, CTD90, CTD90M, CTD115M



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