

NEW! OxyGuard LDO Optical Oxygen Probe



Part of Pacific Systems

OxyGuard's new optical oxygen probe is developed in cooperation with world-leading experts. Based on luminescence quenching of an oxygen sensitive dye immobilized on a support foil (sensor spot), it can be used for gas as well as for dissolved oxygen (DO) measurements.

The presence of oxygen quenches the luminescence, changing its intensity and lifetime fully reversibly. The measurement principle is very robust, it shows virtually no interference to other gases and has very low drift. Bleaching is not an issue because low energy red light excites the sensor spot and emission is near-infrared (NIR).

Special features

- High-accuracy measurements of oxygen in gas or water (DO)
- Low drift
- Long lifetime
- Fast response
- Digital output of all major oxygen units
- No offset/zero point calibration

TECHNICAL INFORMATION

Specification

Units of measure:

ppm (mg/l), %sat, °C, °F.

Medium:

Air, water.

Measuring range:

0-250 %sat. 0-23 ppm (mg/l), ± 5 - $+45^{\circ}\text{C}$.

Accuracy:

± 1 %sat, ± 0.1 ppm (mg/l).

Response time:

Less than 15 sec in water. Less than 5 sec in air.

Lifetime (minimum):

Sensor spot: 2 years.

Operating temperature:

$-10 - +60(^{\circ}\text{C})$.

$+14 - +140(^{\circ}\text{F})$.

Cable length:

Standard 7 meters. Available at any length on request.

Installation

The OxyGuard LDO Optical Oxygen Probe is designed to be fitted to an OxyGuard Pacific unit.

Ordering information

Contact OxyGuard at oxyguard@oxyguard.dk or tel. +45 4582 2094.

Available through distributors from October 2019.

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Data subject to change without notice