AQUALABO

Smart water solutions



NEW NEON-OPTOD

NEW PORTABLE FIELD OXIMETER FOR DISSOLVED OXYGEN AND TEMPERATURE MEASUREMENTS IN FISH FARMS

APPLICATIONS

Fish farming: RAS, pond, offshore cage,
Aquaculture industry
Aquarium

ADVANTAGES

- Intuitive, simple and quick to use: immediate handling
- Robust, waterproof IP67 and lightweight.
- Digital optical sensor technology: reduced maintenance and measurement reliability
- Data recording and transfer via Wifi

OUR PRESENCE IN THE AQUACULTURE MARKET

Aqualabo has been a major player in the field of aquaculture for many years, notably by offering, 20 years ago, portable oximeter for the control of dissolved oxygen levels in fish farms. Our presence in this market has been more intense since 2012, with increasing demand from France, Scandinavia, the Faroe Islands, Chile and Ecuador.

Based on our experience, our know-how and our discussions with our customers and to better support you, we have decided to offer you a new NEON portable oximeter for your applications in Aquaculture and Fish Farming at a better cost.



NEON DIGITAL PORTABLE DEVICE

Always ready for use, NEON combined with the OPTOD sensor allows reading of dissolved oxygen in %Sat and mg/L as well as temperature. NEON also offers a recording function (30 000 measuring points) in a punctual and automatic mode. Data transfer to the computer is easy thanks to the WiFi Transfer function (without additional cable).

Resistant to disturbances: pre-amplification integrated in the sensor and digital signal processing.

OPTICAL SENSOR TECHNOLOGY

The OPTOD dissolved oxygen sensor uses the ASTM International Method D888-05 approved optical luminescence measurement technology and ISO 17289.

This innovative method ensures reliable, accurate measurements and reduced maintenance.

Without consumables or maintenance, the OPTOD sensor allows immediate return on investment. Only the DOdisk is to be changed every two years.

The OPTOD sensor uses no oxygen and is suitable for all environments, including those with very low water circulation.

SPECIFICATION

Measuring range	Oxygen: 0,00 to 20,00 mg/L ; 0,00 to 20,00 ppm ; 0-200 % ǀ Temperature: 0,00 – 50,00 °C ǀ Atmospheric pressure: 450-800 mmHg (600-1065 hPa)
Resolution	Oxygen: 0,01 ǀ Temperature: 0.01
Accuracy	Oxygen: +/- 0,1mg/L; +/- 0,1ppm; +/- 1 % Range 0-100 % ǀ Temperature: +/- 0.5 °C
Oxygen calibration	On 1 or 2 points
Compensations	Barometric: Automatic ǀ Salinity: Manual ǀ Temperature via CTN: automatic
OPTOD digital sensor	Luminescence Optical Technology
Recording	30 000 points ǀ Wifi transfert
Functions	Auto Off: 2, 5, 10, 15, 30 min ǀ Light intensity: 5 min max ǀ Contrast management Main measurement zoom function ǀ Recording: On-site, interval recording (time interval) Indication of measurement stability ǀ Measurement function that freezes with measurement stability condition
Power supply	3 battery 1,5V AA 648 h (without recording) 230 h (1 recording/minute)

Technical Data NEON housing	
Weight	880 g
Dimensions (H x l x e)	146 x 88 x 33
Protection class	IP 67
Operating temperature	-5 to 50 °C
Storage temperature	-10°C-60°C
Screen	LCD graphic ǀ Backlight
Material	ABS
Sensor connexion	Cable gland type PG9 Sensors on 3, 7 et 15 m

Specification OPTOD sensor	
Weight	300 g (sensor + 3 m cable)
Protection class	IP68
Operating temperature	0 to 50 °C
Storage temperature	- 10°C to + 60°
Pressure max.	5 bars
Material	Stainless steel or Titanium



PONSEL BY AQUALABO

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