

# 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

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

### Technical Data NEON housing

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

### Specification OPTOD sensor

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

