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Smart water solutions

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NEON OPTOD

Portable Oxymeter



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microLAN
On-line Monitoring Systems

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NEON OPTOD
GENERALITIES

NEON OPTOD– Advantages



➤ **OPTOD Digital sensor**

Resistant to disturbance: pre-amplification integrated in the sensor and digital signal processing;
Sensor immediately operational;
Optical measurement technology (limited consumables & maintenance).



➤ **Simplicity and comfort**

Large color display: Temp, Ox %, Ox in mg/l (zoom function);
Screen shutdown management (starting at 2min)/
Backlight (5 min max);
Records 3000 data (Wifi offloading).



➤ **Enclosure**

Easy grip: compact, lightweight;
IP67 protection;
PG9 Cable Gland Sensor Connection.



NEON OPTOD – Advantages



➤ Power supply

3 x 1.5V AA alkaline batteries (possibility to use rechargeable batteries)



➤ Compensation

Temperature: automatic;

Atmospheric pressure: automatic (integrated pressure sensor, measurement adjustment);

Salinity: manual



➤ Features

Auto Off: (Auto Off, 2, 5, 10, 15, 30 min)

Light intensity: 5 min max

Contrast management

Main measurement zoom function

Recording (3000 data): Punctual, interval recording (time interval)

Indication of measurement stability



NEON OPTOD– Specifications

Spécifications	
Measuring range	Oxygen : 0,00 to 20,00 mg/L ; 0-200% Temperature : 0,00 – 50,00 °C
Resolution	Oxygen : 0,01 Temperature : 0,01
Accuracy	Oxygen : +/- 0,1mg/L ; +/- 1 % Temperature : +/- 0.5 °C
Oxygen calibration	On 1 or 2 points
Compensations	Barometric: automatic Salinity: Manual Temperature via CTN: automatic
OPTOD Oxygen sensor	Luminescence optical technology
Recording	3000 data Wifi download

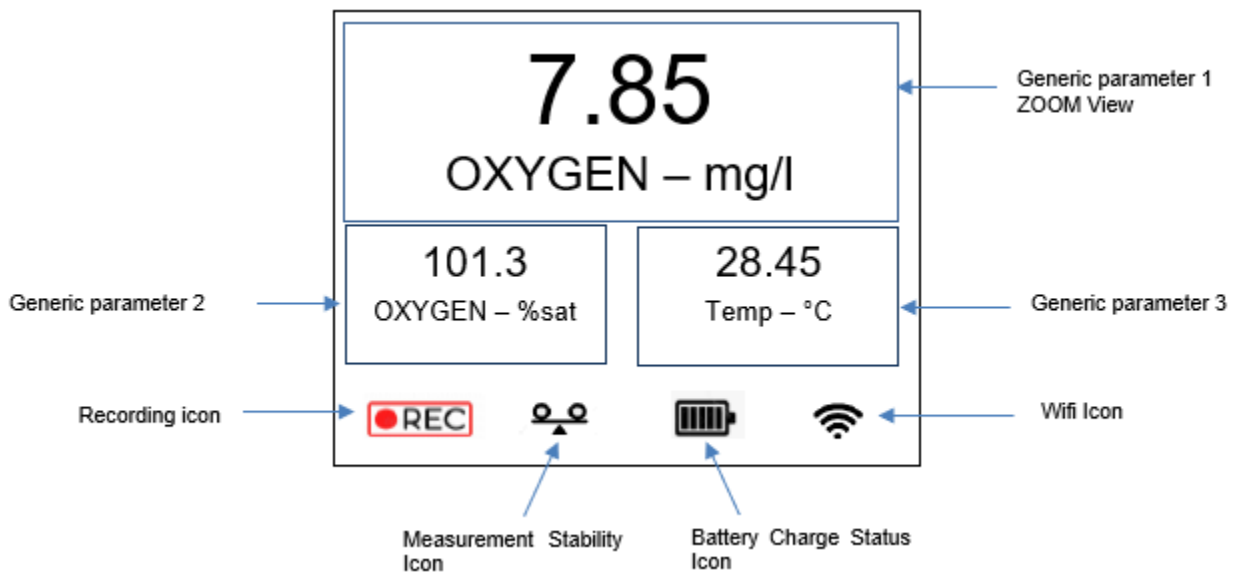
Technical Data NEON housing	
Weight	880 g
Dimensions	146 x 88 x 33
Protection class	IP 67
Operating temperature	-5 à 50 °C
Storage temperature	-10°C-60°C
Display	LCD graphic Back light
Material	ABS
Sensor connection	Direct via Cable Gland Sensors on 3, 7 and 15 m of cable



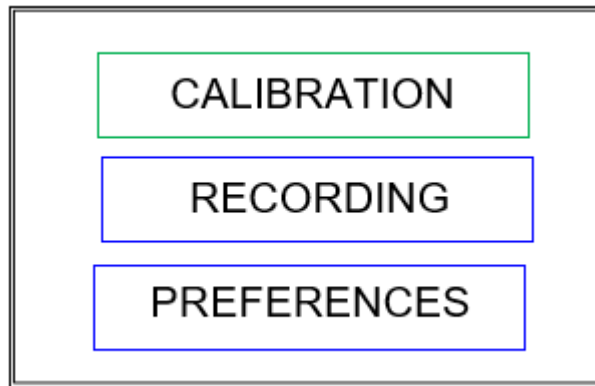


NEON OPTOD FEATURES

NEON OPTOD – Main screen



NEON OPTOD– Main Menu



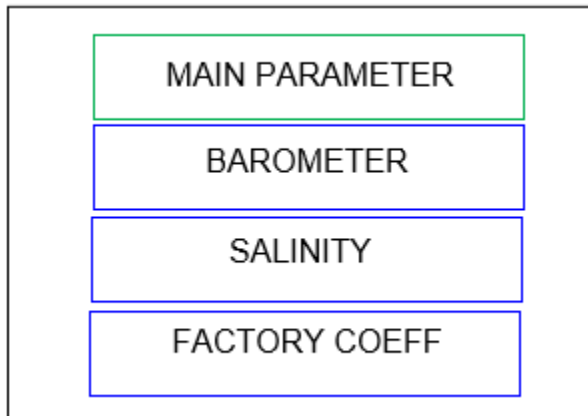
➤ MAIN MENU

Only 3 menus:

Calibration of the OPTOD sensor in %Sat,
Configuration of recording modes & data visualization,
The setting of the device.



NEON OPTOD– Calibration



➤ CALIBRATION

Calibration main parameter: Oxygen % Sat (in 1 or 2 points);

Adjust atmospheric pressure value (450-1200 hPa);

Enter the Salinity value (compensation 0.0 and 70.0 ppt.);

Reuse plant coefficients



NEON OPTOD– Recording

RESULTS
SAMPLE RATE
CAMPAIGN NAME
CLEAR DATABASE

➤ RECORDING

View the recorded data;

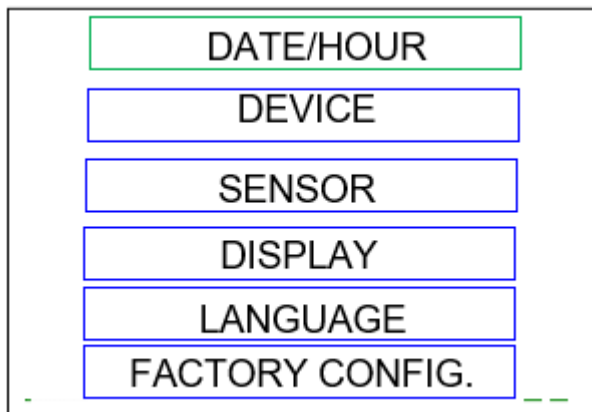
Set recording frequencies (instant or automatic 10/30 s, 1/5/10/30/60 min)

File name (max 10 characters)

Erase data



NEON OPTOD– Preferences



➤ PREFERENCES

Setting date/time;

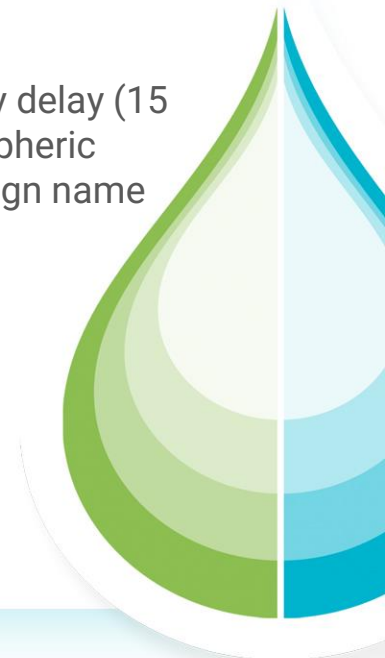
Hardware/Software version

Sensor information

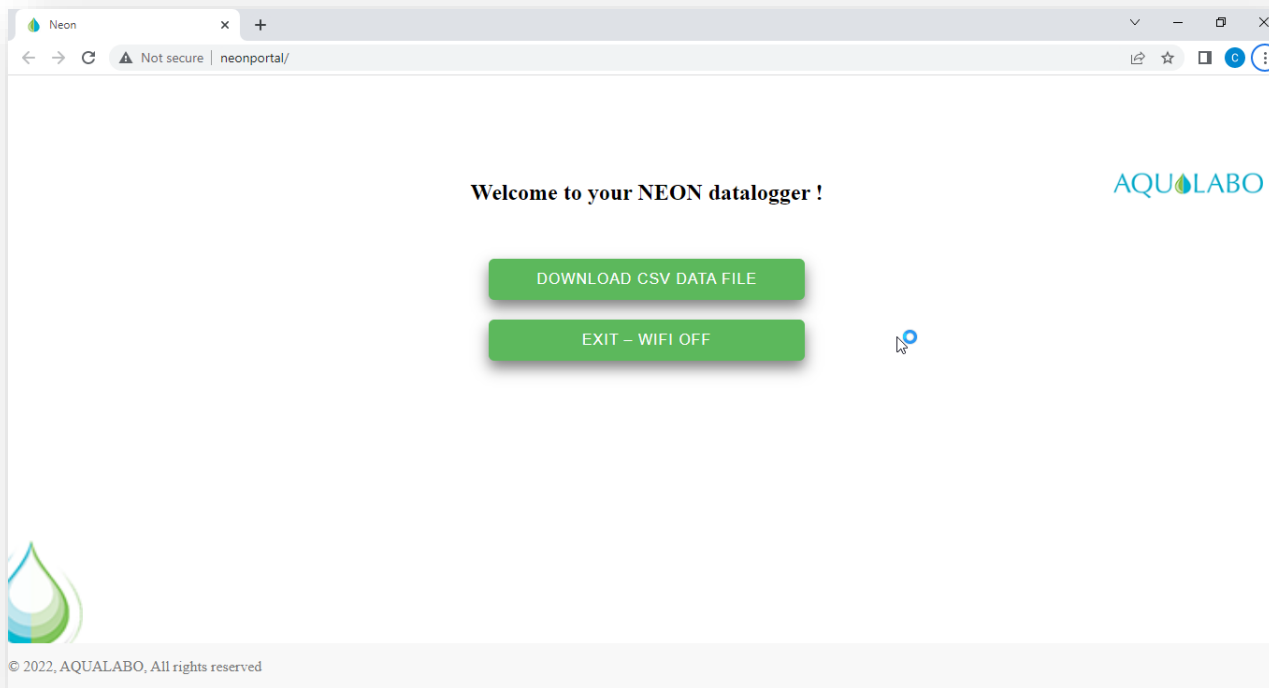
Standby setting: 2, 5, 15 or 30 minutes

Choice Language: FR, AN, SP, GER

Return factory config: contrast level, standby delay (15 min), default salinity value (0.00 ppt), atmospheric pressure at 1013 hPa, measurement campaign name (LOCAL).



NEON OPTOD– Data unloading



Via embedded web page

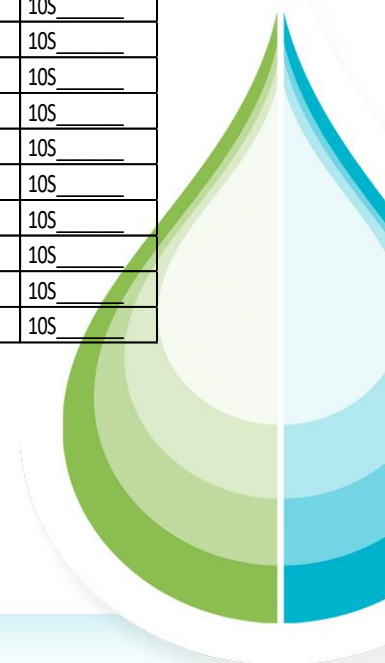
The registration file contains:

- Sensor measured data (Oxygen in %sat, Oxygen in mg/L, temperature),
- The atmospheric pressure measured by the NEON equipment,
- The salinity instruction entered by the operator,
- The temperature and indoor humidity of the NEON device.



NEON OPTOD– Data unloading

timestamp	OXYGEN(mg/L)	OXYGEN(%sat)	TEMP.(°C)	DEVICE_Temperature(°C)	DEVICE_Humidity(%)	DEVICE_Pressure(hPa)	DEVICE_Salinity(ppt)	Campaign Name
2023/01/16 12:28:31	9.06	100.09	19.42	23.08	75.19	995.07	0.00	10S_____
2023/01/16 12:28:40	9.06	100.11	19.42	23.09	69.10	995.06	0.00	10S_____
2023/01/16 12:28:50	9.06	100.07	19.42	23.09	66.21	995.06	0.00	10S_____
2023/01/16 12:28:59	9.07	100.20	19.43	23.08	65.43	995.04	0.00	10S_____
2023/01/16 12:29:09	9.07	100.23	19.43	23.11	64.86	995.05	0.00	10S_____
2023/01/16 12:29:19	9.06	100.15	19.43	23.12	64.66	995.03	0.00	10S_____
2023/01/16 12:29:28	9.07	100.18	19.43	23.15	64.53	994.98	0.00	10S_____
2023/01/16 12:29:38	9.07	100.27	19.44	23.17	64.20	994.99	0.00	10S_____
2023/01/16 12:29:47	9.06	100.17	19.44	23.20	64.04	995.01	0.00	10S_____
2023/01/16 12:29:57	9.06	100.12	19.44	23.23	63.90	995.02	0.00	10S_____
2023/01/16 12:30:06	9.05	100.02	19.45	23.22	63.76	995.01	0.00	10S_____
2023/01/16 12:30:16	9.04	100.00	19.46	23.20	63.61	995.01	0.00	10S_____
2023/01/16 12:30:26	9.06	100.14	19.46	23.21	63.64	995.00	0.00	10S_____
2023/01/16 12:30:35	9.05	100.05	19.46	23.21	63.63	994.97	0.00	10S_____
2023/01/16 12:30:45	9.06	100.15	19.47	23.21	63.63	994.99	0.00	10S_____
2023/01/16 12:30:54	9.04	100.02	19.47	23.21	63.58	994.99	0.00	10S_____
2023/01/16 12:31:04	9.04	99.96	19.47	23.20	63.54	994.99	0.00	10S_____
2023/01/16 12:31:15	9.05	100.10	19.47	23.19	63.55	995.00	0.00	10S_____





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