



## NEW NEON RANGE NEON

NEW PORTABLE FIELD METER  
FOR DISSOLVED OXYGEN, PH,  
CONDUCTIVITY, SALINITY AND  
TEMPERATURE

### APPLICATIONS

Fish farming: RAS, pond, offshore cage,  
Aquaculture industry  
Aquarium  
Surface water, groundwater monitoring  
Treatment of urban wastewater (inlet,  
aeration basin, outlet).  
Industrial wastewater treatment

### ADVANTAGES



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

### NEON DIGITAL PORTABLE DEVICE

Always ready for use, NEON combined with DIGISENS range sensor allows reading of dissolved oxygen (% and mg/L) and temperature or pH, ORP or Conductivity, Salinity. 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.

## SENSOR TECHNOLOGY

- OPTOD sensor:** 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.
- C4E Sensor:** The electrode works with a technology in 4 electrodes: an alternating current of constant voltage is established between a primary's pair of electrodes in graphite.  
 The secondary's electrodes in platinum allow of regulate the voltage imposed to primary's electrodes to reflect of the fouling.  
 The voltage measured between the primary's electrodes is in function of the resistance of place and so, of the conductivity.
- PHEHT Sensor:** The PONSEL sensor incorporates a reference electrode, used for pH and redox measurements, type Ag/ AgCl with plasticized electrolyte saturated in KCl «PLASTOGEL»®. The «PLASTOGEL»® electrolyte communicates directly with the external medium without capillary or porous interposition. There is therefore no risk of plugging or defusing the reference.

SPECIFICATIONS	OPTOD	C4E	PHEHT
<b>Measuring Range</b>	Oxygen: 0,00-20,00 mg/L ; 0,00-20,00 ppm   Oxygen: 0-150 %   Temperature: 0,00-50,00 °C	Conductivity: 0-200,0 µS/cm ; 0 -2000 µS/cm ; 0,00 -20,00 mS/cm ; 0,0 -200,0 mS/cm (compensated at 25°C)   Salinity: -5-60 g/Kg   Temperature: 0.00 - 50.00°C	pH: 0.00 to 14.00 (compensated at 25°C)   Redox: -1000.0 to +1000.0 mV   Temperature: 0.00 - 50.00°C
<b>Resolution</b>	Oxygen:0,01   Temperature: 0.01	Conductivity: 0,01 to 1 according to the range   Salinity: 0.01   Temperature: 0.01°C	pH: 0.01   Redox: 0.1 mV   Temperature: 0.01°C
<b>Accuracy</b>	Oxygen: +/- 0,1mg/L ; +/- 0,1ppm ; +/- 1 % Temperature: +/- 0.5 °C	Conductivity: +/- 1 % of the full range Beyond 100 mS/cm use appropriate buffer solution Temperature: +/- 0.5°C	pH: +/- 0.1 pH Redox: +/- 0.2 mV Temperature: +/- 0.5°C
<b>Calibration</b>	On 1 or 2 points	On 4 ranges, 2 points per range	pH On 3 points
<b>Compensations</b>	Barometric: Automatic   Salinity: Manual   Temperature via CTN: automatic	Temperature via NTC: automatic @ 25°C	Temperature via NTC: automatic @ 25°C
<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