AQUALABO

Smart water solutions

NEW NEON RANGE

NEON

NEW PORTABLE FIELD METER FOR DISSOLVED OXYGEN, PH, CONDUCTIVITY, SALINITY, SLUDGE BLANKET DETECTION, TURBIDITY 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

Non Collective Sanitation (septic tank)

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, Conductivity, Salinity or Sludge Blanket detection. 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.

DISTRIBUTOR :
PT. BENSRA SUKSES INDONESIA
Website : www.bensra.com
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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.
- **VB5 Sensor:** The measurement principle is based on the attenuation of the IR signal at 870 nm through a 5mm optical slot. The sensor delivers Mud Veil measurements in % IR transmission. For better accuracy, the sensor optics are temperature regulated.
- **NTU sensor:** The measuring principle is based on Nephelometry: a diode emits in an infrared light (850nm) and a diode reception set at 90° measures the diffused radiation (standardized measurement). The sensor can be calibrated with a standard Formazine. Very economical optical technology requiring little maintenance and no consumables

SPECIFICATIONS

	OPTOD	C4E	PHEHT	VB5	NTU
Measuring Range	Oxygen: 0,00-20,00 mg/L ; 0,00-20,00 ppm ǀ Oxygen: 200 % ǀ 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) ǀ Salinity: -5-60 g/Kg ǀ Temperature: 0.00 - 50.00 °C	pH: 0.00 to 14.00 (temperature compensated) ǀ Redox: -1000.0 to +1000.0 mV ǀ Temperature: 0.00 - 50.00 °C	Sludge Blanket : 0-100 % ǀ Temperature : 0,00 - 50,00 °C	Turbidity : 5-4000 NTU (4 ranges) 0-4500 mg/L ǀ Temperature : 0,00-50,00°C
Resolution	Oxygen:0,01 ǀ Temperature: 0.01 on 0-100 % range	Conductivity: 0,01 to 1 according to the range ǀ Salinity: 0.01 ǀ Temperature: 0.01 °C	pH: 0.01 ǀ Redox: 0.1 mV ǀ Temperature: 0.01 °C	Sludge Blanket: 0.01 à 0.1 % ǀ Temperature : 0.01 °C	Turbidity : 0,1 to 1 NTU Temperature : 0,01 °C
Accuracy	Oxygen: +/- 0,1mg/L ; +/- 0,1ppm ; +/- 1 % Range 0-100 % 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	Sludge Blanket : +/- 2% Temperature : +/- 0.5 °C	<5% NTU reading Temperature : +/- 0,5 °c
Calibration	On 1 or 2 points	On 4 ranges, 2 points per range	pH On 3 points	1 point ; 100 %	Turdidity NTU : 2 point/range Turbidity mg/L : 2 point (real sample)
Compensations	Barometric: Automatic ǀ Salinity: Manual ǀ Temperature via CTN: automatic	Temperature via NTC: automatic @ 25 °C	Temperature via NTC	Regulation of optics via NTC	Regulation of optics via NTC
Recording	30 000 points ǀ Wifi transfert				
Functions	Auto Off: 2, 5, 10, 15, 30 min ǀ Light intensity: 5 level 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 ǀ 648 h (without recording) ǀ Up to 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 ǀ Sensors on 3, 7 et 15 m

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