AQUALABO

Smart water solutions

NEW

NEON & C4E

NEW PORTABLE FIELD METER FOR CONDUCTIVITY, SALINITY AND TEMPERATURE MEASUREMENTS FOR WATER QUALITY

APPLICATIONS

Surface water, groundwater monitoring…

Treatment of urban wastewater (inlet, aeration basin, outlet)

Industrial wastewater treatment

Fish farming/Aquaculture

ADVANTAGES +

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

PHYSICO-CHEMICAL TECHNOLOGY

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.

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NEON DIGITAL PORTABLE DEVICE

Always ready for use, NEON combined with the C4E sensor allows reading of Conductivity, Salinity as well as temperature. NEON also offers a recording function (30000 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.

All calibration, history, user and measurement data is processed directly in the C4E sensor and transmitted to the NEON instrument.

SPECIFICATION

Measuring range	Conductivity: 0-200,0 µS/cm; 0 –2000 µS/cm; 0,00 –20,00 mS/cm; I 0,0 –200,0 mS/cm (compensated at 25°C) I Salinity: -5-60 g/Kg I Temperature: 0.00 – 50.00°C
Resolution	Conductivity: 0,01 to 1 according to the range I Salinity: 0.01 I Temperature: 0.01°C
Accuracy	Conductivity: +/- 1 % of the full range Beyond 100 mS/cm use appropriate buffer solution Temperature: +/- 0.5°C
Conductivity calibration	On 4 ranges, 2 points per range
Recording	30 000 points I Wifi transfert
Functions	Auto Off: 2, 5, 10, 15, 30 min I Light intensity: 5 min max I Contrast management Main measurement zoom function I Recording: On-site, interval recording (time interval) Indication of measurement stability I Measurement function that freezes with measurement stability condition
Power supply	3 battery 1,5V AA 848 h (without recording) 170 h (with rechargeable battery; 1 recording/min)

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 I Backlight
Material	ABS
Sensor connexion	Cable gland type PG9 Sensors on 3, 7 et 15 m

Specification C4E sensor	
Weight	350 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	PVC, POM-C, Stainless steel

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