

MPx

AUTONOMOUS MULTIPARAMETER PROBE



TURBIDITY



FLUORESCENCE



DISSOLVED OXYGEN



CONDUCTIVITY

TEMPERATURE



pH

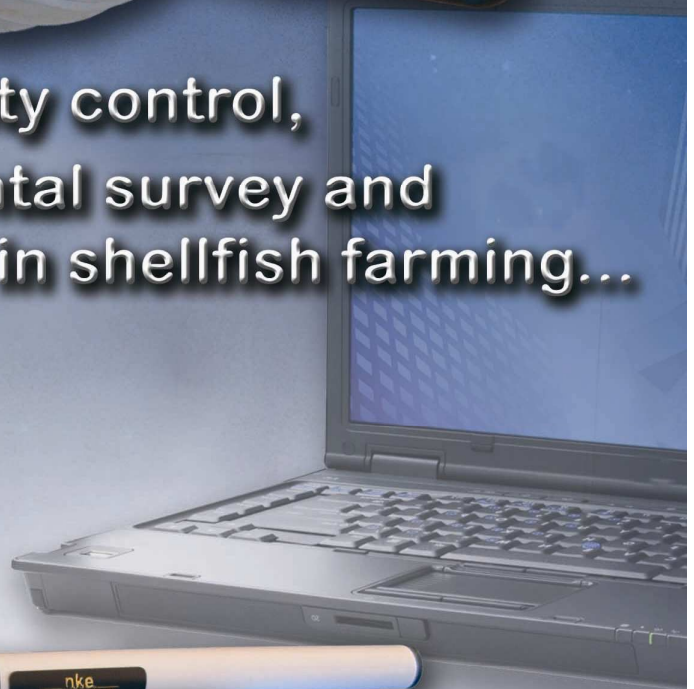


DEPTH

SERIAL LINK



Water quality control,
Environmental survey and
monitoring in shellfish farming...



DATA PENCIL RADIO

Communication Interface

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Product description

The autonomous multiparameter probe MPx allows to measure, up to 7 physico chemical parameters: temperature, pressure, conductivity for measurement of salinity, turbidity, fluorescence, dissolved oxygen and pH.

Examples of operational use

- water quality control: dynamic measurement from a boat.
- environmental survey and monitoring in shellfish farming, (used in addition with Marel estran autonomous station to protect sensors against biofouling).

Main features

- a user-friendly software is run on a PC to program, collect and display data : a 25m range radio link allows remote configuration or data loading (no physical connection between MPx and the PC!),
- remote interrogation of the MPx is possible by a PLC via an **RS232 serial link** accessible by the Subconn connector,
- internal lithium batteries or external power supply (via Subconn connector).

PRODUCT DESIGNATION	MPx yyy (x = number of parameters and yyy = parameters) example: MP6 CTDDOTbdFluo
AVAILABLE PHYSICOCHEMICAL PARAMETERS	
Depth (D)	Range / Accuracy / Resolution 0 to 20m / < 0.06m / 0.006m
Temperature (T)	Range / Accuracy / Resolution -5°C to +35°C / < 50m°C in the range 0-20°C / 13m °C at 10°C
Conductivity (C)	Range / Accuracy 0 to 70 mS/cm / ±0.05 mS/cm in the range 10 to 60mS/Cm
Salinity	Range / Accuracy 2 to 42‰ / ±0.1 ‰
Dissolved Oxygen (DO) Saturation Concentration	Range / Accuracy / Resolution <i>Aandera Optode optical sensor</i> 0 to 120% / < 5% / 0.01% 0 to 16mg/l / < 5% / 0.01%
Turbidity (Tbd)	Range (configurable at works) 25, 125, 500 or 750 FTU (non linear above, max. 1500 FTU) <i>Seapoint optical sensor</i> Linearity < 2% deviation 0-750 FTU Light source Wavelength: 880 nm
Fluorescence (Fluo)	Chlorophyll a <i>Turner Design optical sensor</i> Minimum detection limit: 0.03 µg/l Sensitivity: 0-5 µg/L or 0-50 µg/L or 0-500 µg/L (configurable at works) Wavelength: Excitation 460 nm Emission 620-715 nm
pH (pH)	Range 0 to 14pH Resolution 0.0003pH
Time	Internal clock with calendar (clock drift<1mn/month)
Autonomy	energy 18 months batteries life, for a MP6 version at 5mn recording rate memory 4Mb, >24 months at 5mn recording rate, 1 month at 10s recording rate, for a MP7 version
Mechanical characteristics	max. sizes: diameter 95mm length 440mm weight in the air 2,5kg

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