



We come from the ocean

# Multiparameter sonde and so much more



Underwater instruments



**Digital smart sensors**  
Plug and unplug at will



**Up to 20 water parameters**  
Can be measured by a sonde



**Cleaning system**  
Proven efficiency



**Light & Robust**  
Proven robustness



**Long-lasting autonomy**  
Alkaline batteries



**User-friendly interface**  
Easy to use web embedded interface



**WiFi connectivity**  
Compatible with all platforms



**Data precision**  
High quality standards



**Easy to integrate**  
On buoy / USV / ROV, AUV



**3G / 4G solution**  
And other remote communication





Key features

**WiMo**  
4 locations



**WiMo Plus**  
7 locations



**PLUG-IN SMART SENSORS**  
*Installable at any locations*  
*Easy locking screw and water sealing system*  
*Waterproof once locked*



**EFFICIENT BIOFOULING SYSTEM**  
*Sensor protection cover*  
*Smart wiper cleaning system*



**AUTOMATIC SENSOR RECOGNITION**



**MORE THAN 20 PARAMETERS AT A TIME**



**WIRELESS PROGRAMMING**  
*Intuitive and easy to use web interface*



**TEMPERATURE AND WAVE/TIDE SONDE**  
*Without any digital sensors*



**HIGH INTERNAL STORAGE CAPACITY**  
*Flash memory and/or SD card*



**POINT TO POINT WIFI WITH SWITCH MAGNET ACTIVATION**



**DEPTH RATING UP TO 250m**



**RANGE OF AUTONOMOUS COMMUNICATION MODULES**



**STANDARD MODBUS**  
*RS232 & RS485*  
*User-selectable*



**USER REPLACEABLE STANDARDS BATTERIES**  
*Alkaline batteries or rechargeable Nimh*





PHYSICAL FEATURES	MECHANICAL FEATURES	TRANSMISSION	TEMPERATURE
<b>Dimensions:</b> WiMo w/ sensors: 489 mm WiMo Plus w/ sensors: 499 mm Diameter (WiMo): 85mm <b>Weight in air (WiMo):</b> 2,65 kg	<b>Depth rating:</b> 250 meters <b>Flash memory:</b> 15 Mo 500,000 measures (without ZIP) SD card available on request <b>Battery:</b> Alkaline bateries	WiFi communication Modbus RS232 / RS485 <b>No dedicated software required:</b> the web embedded interface is compatible with all types of platforms	<b>Operating temperature:</b> -2°C / +35°C <b>Storage temperature:</b> -20°C / +50°C

## Digital smart sensor suite

NATIVE PARAMETERS	RANGE	ACCURACY	RESOLUTION
<b>Temperature</b>	-2 to +35°C	±0.7°C	0.05°C
<b>Water Pressure</b>	0 to 25 bars	0.15%	0.001 bar

SENSOR	RANGE	ACCURACY	RESOLUTION
<b>Conductivity (C)</b>	0 to 100 mS/cm	25 µS or 0.5% of reading	0.001 mS/cm
<b>Temperature</b>	-2 to +35°C -2 to +50°C (in option)	±0.02°C ±0.05°C	0.001°C 0.001°C
<b>Turbidity (Tbd)</b>	0 to 4000 NTU	0.4 NTU or ±5% of reading	0.01 NTU
<b>Oxygen concentration</b>	0—23 mg/L	±0.1 mg/L	0.025 mg/L
<b>Oxygen saturation</b>	0—250%	±1% of reading	0.25%
<b>pH<sup>1</sup></b>	0—14 pH units	±0.1 pH unit	0.01 pH unit
<b>Fluorescence (Fluo)</b> <b>Chlorophyll A</b>	0 to 500 µg/L	Linearity: r <sup>2</sup> > 0.99 for Rhodamine WT	0.03 µg/L
<b>Fluorescence (Fluo)</b> <b>Phycocyanin</b>	0 to 4500 ppb	Linearity: r <sup>2</sup> > 0.99 for Rhodamine WT	2 ppb
<b>Fluorescence (Fluo)</b> <b>Phycoerythrin</b>	0 to 750 ppb	Linearity: r <sup>2</sup> > 0.99 for Rhodamine WT	0.1 ppb
<b>CDOM fDOM</b>	0 to 1000 ppb QSE 0 to 3000 ppb QSE	Linearity: r <sup>2</sup> > 0.99 QSE	0.1 ppb QSE 0.5 ppb QSE

CALCULATED PARAMETERS	RANGE	ACCURACY	RESOLUTION
<b>Chloride</b>	0 to 18000 mg/L-Cl	±15% of reading or ±5 mg/L-Cl	0.01 mg/L
<b>Depth</b>	0 to 250 m	0.15% FS	0.001 m
<b>Salinity</b>	2—42 PSU	0.1 PSU or 1% of reading	< 0.001
<b>Sound velocity</b>	1300—1700 m/s	0.001 m/s	Not specified
<b>Specific conductivity</b>	0 to 100 mS/cm	±0.5% of reading	0.001, 0.01, 0.1 mS/cm
<b>Total dissolved solids</b>	0 to 100,000 mg/L	Variable	Not specified

\*Real smart interchangeable sensors: each sensor is calibrated independently

<sup>1</sup>pH sensor maximum depth: 50 meters



# Underwater instruments



Versatility and ease of use

**Sea environment monitoring**

**Fresh water application and profiles recording**



**Integrable on any platforms**



**Operational user-friendly configuration interface**



**The web embedded configuration interface is compatible with all types of platforms**



Sales department

Tel : +33 (0)2 97 36 41 31 - Fax : +33 (0)2 97 36 55 17

info.instrumentation@nke.fr

