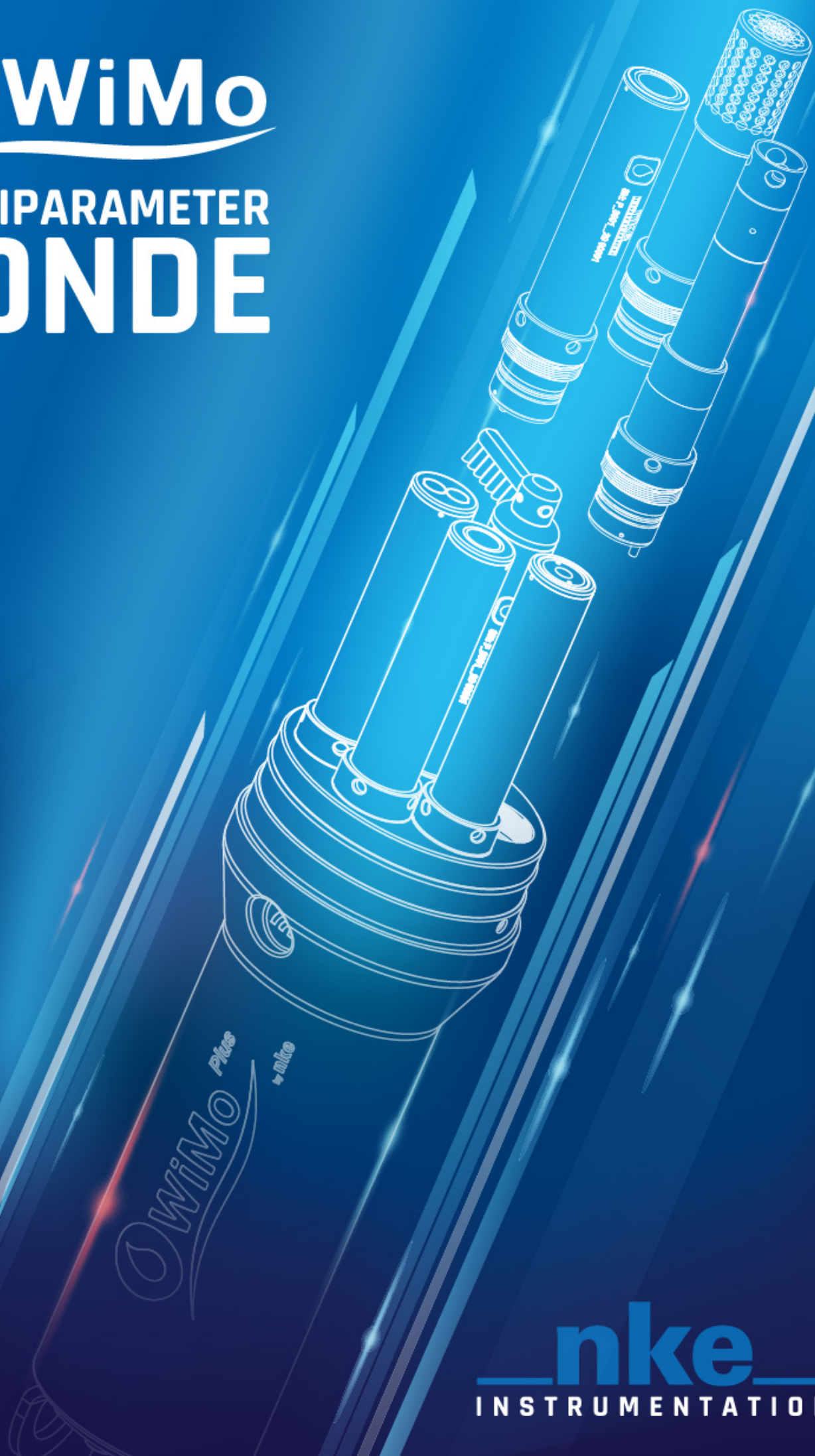


 **WiMo**

**MULTIPARAMETER  
SONDE**



**nke**  
INSTRUMENTATION

# WiMo SONDE

**WiMo**  
4 sockets



**WiMo Plus**  
7 sockets



## PLUG AND PLAY SMART SENSORS

Can be installed on any sockets  
Easy locking screw and  
water sealing system  
Waterproof once locked



## AUTOMATIC SENSOR RECOGNITION



## WIRELESS PROGRAMMING

Intuitive and easy to use  
web interface



## HIGH INTERNAL STORAGE CAPACITY



## DEPTH RATING UP TO 250m



## STANDARD MODBUS

RS232 & RS485  
User-selectable



## EFFICIENT BIOFOULING SYSTEM

Sensor protection cover  
Smart wiper cleaning  
system



## MORE THAN 20 PARAMETERS AT A TIME



## TEMPERATURE AND PRESSURE SONDE

Without any digital sensors



## POINT TO POINT WIFI WITH SWITCH MAGNET ACTIVATION



## RANGE OF AUTONOMOUS COMMUNICATION MODULES



## USER REPLACEABLE STANDARD BATTERIES

Alkaline batteries  
or rechargeable Nimh



## TRANSMISSION MODULE



The 3G/4G modem allows the WiMo multiparameter probe to transmit its data using deployed 3G/4G interface.

## WIMO CALIBRATION TOOL



The USB tool allows to connect a WiMo digital sensor to a computer to calibrate the sensor independently.  
Works with the « WiMo Calibration Tool » dedicated software.

# SPECIFICATIONS

| PHYSICAL FEATURES  | MECHANICAL FEATURES   | TRANSMISSION   | TEMPERATURE   |
|--|---|--|---|
| <b>Dimensions</b><br>WiMo with sensors<br><b>580 mm</b><br>WiMo Plus with sensors<br><b>610 mm</b><br>Diameter<br><b>85 mm &amp; 110 mm</b><br>Weight in air<br><b>2.65 kg &amp; 3.05 kg</b> | Maximum depth<br><b>250 meters</b><br><br>Flash memory<br><b>16MB</b><br><b>Up to 2 millions measures*</b><br><br>Battery<br><b>6 Alkaline batteries D-Type</b> | Wi-Fi communication<br><b>Modbus RS232 / RS485</b><br><b>3G / 4G solution</b><br><br>No dedicated software required (embedded web interface is compatible with all types of platforms) | Operating temperature<br><b>-5°C / +50°C</b><br><br>Storage temperature<br><b>-20°C / +70°C</b> |

\*with ZIP

## DIGITAL SMART SENSOR SUITE<sup>1</sup>

| NATIVE PARAMETERS                        | RANGE                                  | ACCURACY  | RESOLUTION                 |
|--|--|---|----------------------------|
| <b>Temperature</b>                       | -2 to +35°C                            | ±0.2°C (option)                                     | 0.05°C                     |
| <b>Pressure</b>                          | 0 to 1 (option)/3/10/25 bar(s)         | ±0.1%   | 0.0002 bar                 |
| SENSORS                                  | RANGE                                  | ACCURACY  | RESOLUTION                 |
| <b>Conductivity (C)</b>                  | 0 to 10 mS/cm<br>0 to 100 mS/cm        | 5 µS or 0.5% of reading<br>25 µS or 0.5% of reading | 1 µS/cm<br>1 µS/cm         |
| <b>Temperature</b>                       | -2 to +35°C<br>-5 to +50°C (in option) | ±0.02°C<br>±0.05°C                                  | 0.001°C<br>0.001°C         |
| <b>Turbidity (Tbd)</b>                   | 0 to 4000 NTU <sup>5</sup>             | 0.4 NTU or ±5% of reading                           | 0.01 NTU                   |
| <b>Oxygen concentration</b>              | 0-23 mg/L (max. 0-44mg/L)              | ±0.1 mg/L   | 0.01 mg/L                  |
| <b>Oxygen saturation</b>                 | 0-250% (max. 0-500%)                   | ±1% of reading                                      | 0.1%                       |
| <b>Temperature</b>                       | 0°C to +35°C                           | ±0.1°C  | 0.01°C                     |
| <b>Fluorescence (Fluo) Chlorophyll A</b> | 0 to 500 ppb <sup>2</sup>              | Linearity: r <sup>2</sup> > 0.99 for Rhodamine WT   | 0.03 ppb                   |
| <b>Fluorescence (Fluo) Phycocyanin</b>   | 0 to 4500 ppb <sup>2</sup>             | Linearity: r <sup>2</sup> > 0.99 for Rhodamine WT   | 0.1 ppb                    |
| <b>Fluorescence (Fluo) Phycoerythrin</b> | 0 to 750 ppb <sup>2</sup>              | Linearity: r <sup>2</sup> > 0.99 for Rhodamine WT   | 0.1 ppb                    |
| <b>CDOM fDOM</b>                         | 0 to 1500 ppb QSE <sup>3</sup>         | Linearity: r <sup>2</sup> > 0.99 QSE                | 0.1 ppb QSE                |
| <b>Crude oil</b>                         | 0 to 1500 ppb <sup>4</sup>             | Linearity: r <sup>2</sup> > 0.99                    | 0.2 ppb                    |
| <b>Refined fuel</b>                      | 0 to 2350 ppb <sup>10</sup>            | Linearity: r <sup>2</sup> > 0.99                    | 0.2 ppb                    |
| <b>pH<sup>7</sup></b>                    | 0-14 pH units                          | ±0.1 pH unit  | 0.01 pH unit               |
| <b>Redox/ORP<sup>6</sup></b>             | -1999 to +1999 mV                      | ±20 mV  | 0.1 mV                     |
| <b>Nitrate<sup>6-8</sup></b>             | 0 to 300 ppm                           | 10% of reading or 2 ppm                             | 0.01 to 1 ppm              |
| <b>Ammonium<sup>6-8</sup></b>            | 0 - 200 ppm                            | 10% of reading or 2 ppm                             | 0.01 to 1 ppm <sup>9</sup> |
| <b>Chloride</b>                          | 2 to 250 mg/l                          | 10% of reading or 2 mg/L                            | 0,001 to 1 mg/L-N          |

Recommended calibration duration of all sensors\*: 1 year, except for pH (3 months) and ISE (6 months) when used in freshwater.

\*Based on a standard usage

| CALCULATED PARAMS             | 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 10 (option)/30/100/250 m         | 0.1% FS   | 0.01 m             |
| <b>Salinity</b>               | 0-70 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 10 mS/cm<br>0 to 100 mS/cm       | 5 µS or 0.5% of reading<br>25 µS or 0.5% of reading | 1 µS/cm<br>1 µS/cm |
| <b>Total Dissolved Solids</b> | 0 to 10,000 mg/L<br>0 to 100,000 mg/L | <±5%  | 1 mg/L<br>10 mg/L  |

Technical data subject to change.

<sup>1</sup> Real smart interchangeable sensors: each sensor is calibrated independently

<sup>2</sup> Equivalent µg/L

<sup>3</sup> Quinine sulfate

<sup>4</sup> PTSA

<sup>5</sup> Calibrated with Formazine (FNU)

<sup>6</sup> Sensor maximum depth: 15 meters

<sup>7</sup> Sensor maximum depth: 50 meters

<sup>8</sup> Only for fresh water

<sup>9</sup> For high-concentration

<sup>10</sup> NDSA

# EMBEDDED WEB INTERFACE

The operational user-friendly configuration interface is compatible with all types of platforms.



## APPLICATION FLEXIBILITY

Sea environment  
**MONITORING**

Fresh water  
applications and profiles  
**RECORDING**

**INTEGRABLE**  
on any platforms

# inoview by nke



## DATA MONITORING DASHBOARD

Real-time visualization



User-friendly platform

Alarm monitoring



Customizable interface

Secure access and data storage



Export customized reports

# WiMo SOLUTION



## SALES DEPARTMENT

+33 (0)2 97 36 11 81  
info.instrumentation@nke.fr



**INNOVATION & COMMITMENT**  
nke is a member of French Fab and committed to the French industry of tomorrow.

