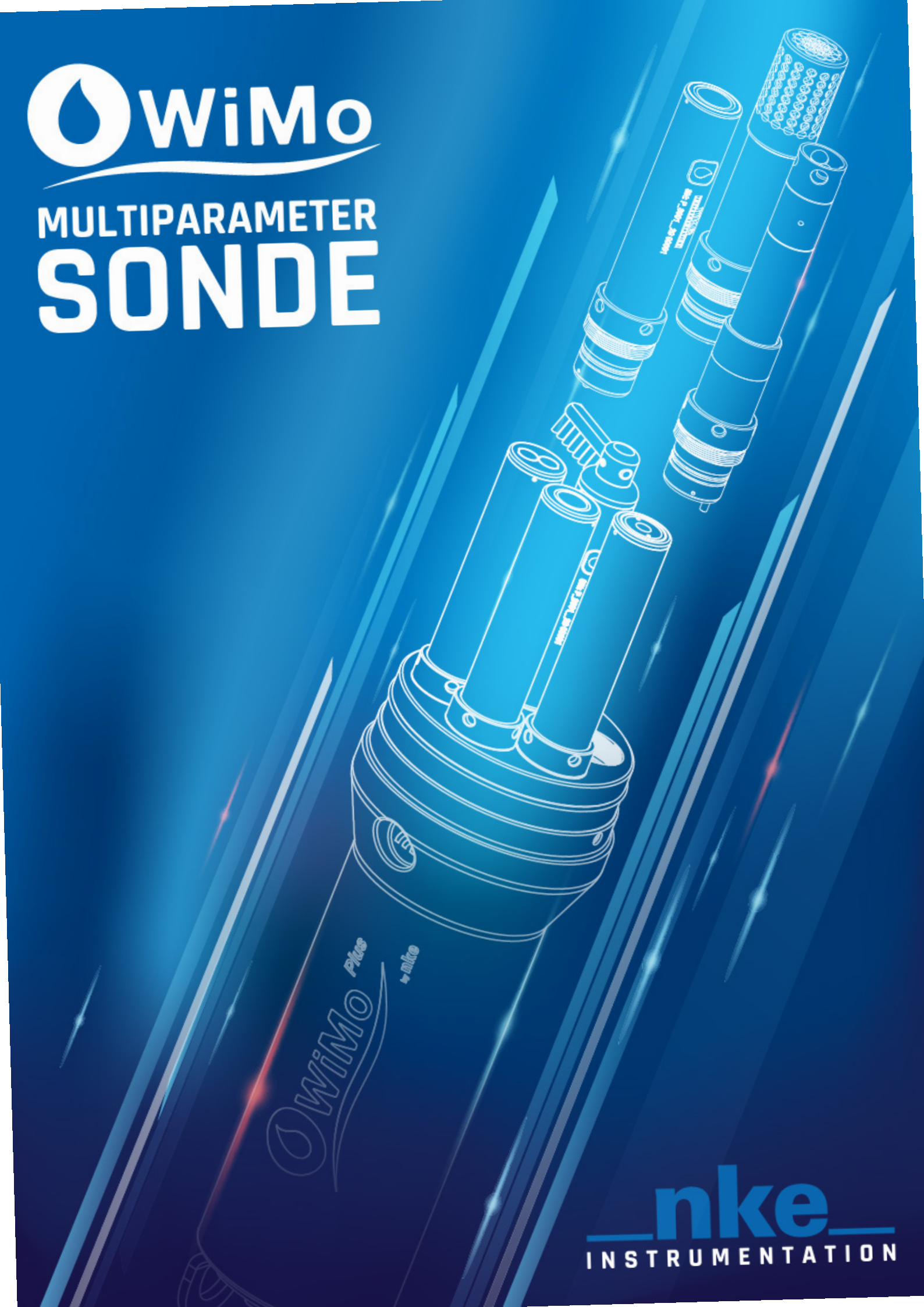
OWiMo

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 INC.

POINT TO POINT WIFI WITH SWITCH MAGNET ACTIVATION

MULTI-PLATFORM COMMUNICATION

USER REPLACEABLE STANDARD BATTERIES
Alkaline batteries or rechargeable Nimh

TRANSMISSION MODULE

The 3G/4G modem allows the WiMo multipa-rameter 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
Dimensions WiMo with guard **560 mm** WiMo Plus with guard **580 mm** Diameter **85 mm & 110 mm** Weight in air **2.65 kg & 3.05 kg**	Maximum depth **250 meters** Flash memory **16 MB** **Up to 2 millions measures*** Battery **6 Alkaline batteries D-Type**	**Wi-Fi communication** **Modbus RS232 / RS485** (embedded web interface compatible with all types of plaforms) **3G / 4G** (with transmission module)	Operating temperature **-5 °C / +50 °C** Storage temperature **-20 °C / +70 °C**

*with ZIP

DIGITAL SMART SENSOR SUITE [1]

NATIVE PARAMETERS	RANGE	ACCURACY	RESOLUTION
Temperature	-2 °C to +35 °C	±0.2 °C (option)	0.05 °C
Pressure	0 to 1 (option)/3/10/25 bar(s)	±0.1 %	0.0002 bar
SENSORS	**RANGE**	**ACCURACY**	**RESOLUTION**
Conductivity (C)	0 to 10 mS/cm 0 to 100 mS/cm	5 µS or 0.5% of reading 25 µS or 0.5% of reading	1 µS/cm 1 µS/cm
Temperature	-2 °C to +35 °C -5 °C to +50 °C (in option)	±0.02 °C ±0.05 °C	0.001 °C 0.001 °C
Turbidity (Tbd)	0 to 4 000 NTU [5]	±2% between 0 and 999 NTU ±5% between 1000 and 4 000 NTU	0.01 NTU
Oxygen concentration	0–23 mg/L (max. 0-44 mg/L)	±0.1 mg/L	0.01 mg/L
Oxygen saturation	0–250% (max. 0-500%)	±1% of reading	0.1%
Temperature	0 °C to +35 °C	±0.1 °C	0.01 °C
Fluorescence (Fluo) Chlorophyll A	0 to 500 ppb [2]	Linearity: r^2 > 0.99 for Rhodamine WT	0.03 ppb
Fluorescence (Fluo) Phycocyanin	0 to 450/0 to 4 500 ppb [2]	Linearity: r^2 > 0.99 for Rhodamine WT	0.1 ppb
Fluorescence (Fluo) Phycoerythrin	0 to 75/0 to 750 ppb [2]	Linearity: r^2 > 0.99 for Rhodamine WT	0.1 ppb
CDOM fDOM	0 to 150/0 to 1500 ppb QSE [3]	Linearity: r^2 > 0.99 QSE	0.1 ppb QSE
Crude oil	0 to 1500 ppb [4]	Linearity: r^2 > 0.99	0.2 ppb
Refined fuel	0 to 2 350 ppb [10]	Linearity: r^2 > 0.99	0.2 ppb
pH [7]	0–14 pH units	±0.1 pH unit	0.01 pH unit
Redox/ORP [6]	-1999 to +1999 mV	±20 mV	0.1 mV
Nitrate [6-8]	0 to 300 ppm	10% of reading or 2 ppm	0.01 to 1 ppm
Ammonium [6-8]	0 – 200 ppm	10% of reading or 2 ppm	0.01 to 1 ppm [9]
Chloride	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
Chloride	0 to 18 000 mg/L-Cl	±15% of reading or ±5 mg/L-Cl	0.01 mg/L
Depth	0 to 10 (option)/30/100/250 m	0.1% FS	0.01 m
Salinity	0–70 PSU	0.1 PSU or 1% of reading	< 0.001
Sound Velocity	1300–1700 m/s	0.001 m/s	Not specified
Specific Conductivity	0 to 10 mS/cm 0 to 100 mS/cm	5 µS or 0.5% of reading 25 µS or 0.5% of reading	1 µS/cm 1 µS/cm
Total Dissolved Solids	0 to 10 000 mg/L 0 to 100 000 mg/L	<±5%	1 mg/L 10 mg/L

Technical data subject to change.
[1] Real smart interchangeable sensors: each sensor is calibrated independently
[2] Equivalent µg/L
[3] Quinine sulfate
[4] PTSA
[5] Calibrated with Formazine (FNU)
[6] Max. depth: 15m
[7] Max. depth: 50m at fixed point, 100m in profile (max. 30 min)
[8] Only for fresh water
[9] For high-concentration
[10] NDSA

EMBEDDED WEB INTERFACE

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

APPLICATION FLEXIBILITY

inoview

DATA MONITORING DASHBOARD

- Real-time visualization
- User-friendly platform
- Alarm monitoring
- Customizable interface
- Secure access and data storage
- Export customized reports

WiMo
SOLUTION

HenSistemas