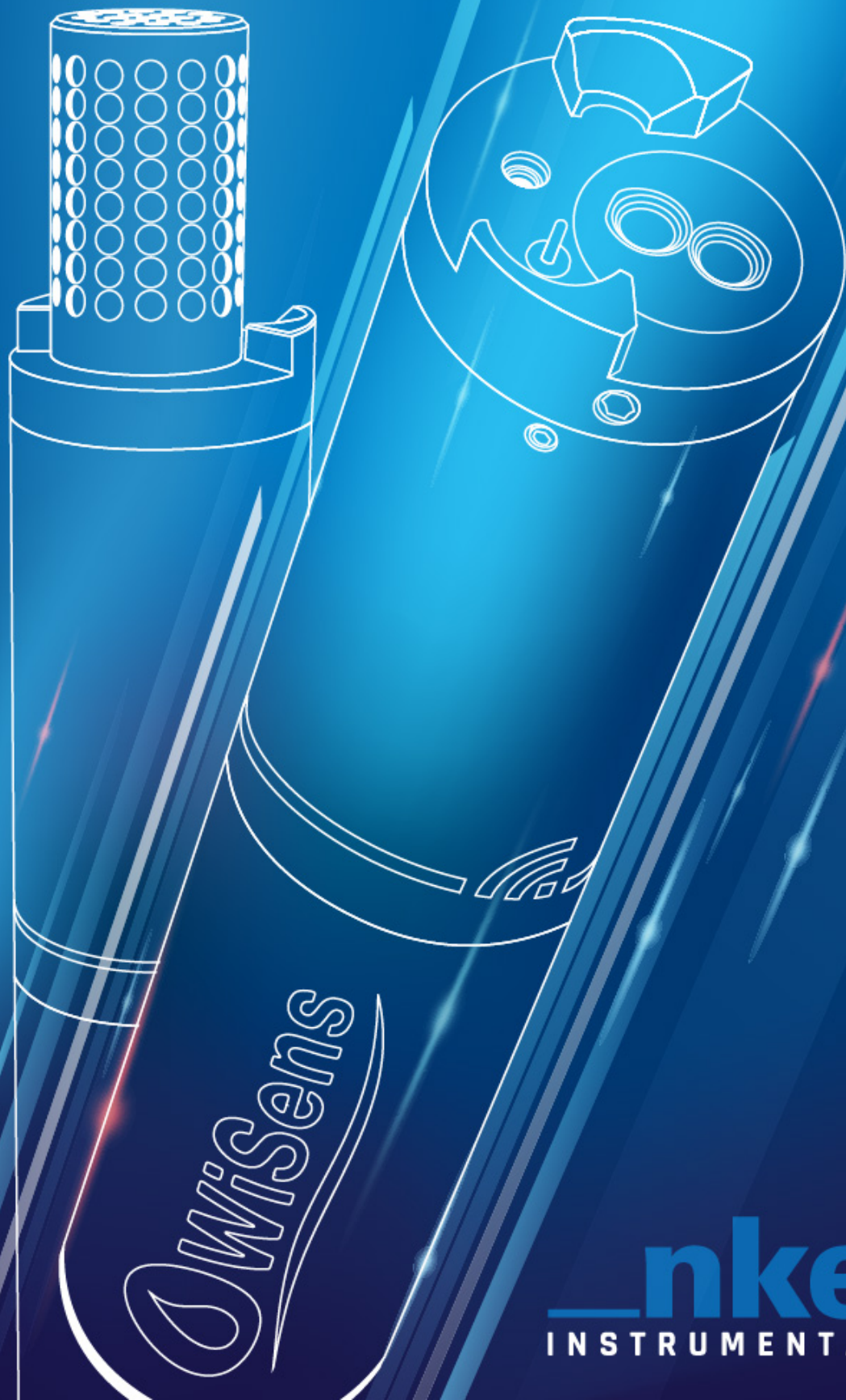


 **WiSens**

**UNDERWATER  
DATA LOGGERS**



*WiSens*

**nke**  
INSTRUMENTATION

# WiSens RANGE

30m



WiSens  
**CTD**

For conductivity, temperature and depth, **down to 300m**. Salinity and sound velocity are calculated.



WiSens  
**TBD**

For turbidity, temperature and depth, **down to 300m**. Optional external automated wiper brush.

WiSens  
**WAVE**

For tide, waves and temperature.



1000m



WiSens  
**DO**

For oxygen concentration and oxygen saturation **down to 1000m**.



WiSens  
**CHLORO A**

For chlorophyll-a **down to 1000m**.

WiSens  
**TD**

For temperature and pressure, **down to 6000m**.



6000m

# TECHNICAL FEATURES

<b>Time</b>	Internal clock with calendar	< 1mn/month
<b>Start and Stop Mode</b>	Manual or programmable	Pressure or temperature level trigger, date condition
<b>Sampling Rate</b>	TD / CTD / TBD / FLUO / DO Wave Tide	Programmable from 1 second to 99 hours From 1 Hz up to 16 Hz (sample number: from 512 to 32768) From 1 Hz up to 16 Hz (typical average duration from 1mn to 1h)
<b>Autonomy</b>	Memory Energy	16 Mb (=3 millions measures) Replaceable lithium batteries
<b>Data</b>	CSV / ZIP	
<b>Communication</b>	Wi-Fi	Magnetic activation

# PHYSICAL FEATURES

TYPE	DIMENSIONS	WEIGHT IN AIR	APPROXIMATE WEIGHT IN WATER
<b>WiSens TD 30 / 300 / 1000m</b>	220 mm x Ø 45 mm	287g	51g
<b>WiSens Wave</b>	220 mm x Ø 45 mm	267g	51g
<b>WiSens CTD</b>	320 mm x Ø 45 mm	320g	A few grams
<b>WiSens Chloro A</b>	220 mm x Ø 45 mm	283g	51g
<b>WiSens DO</b>	220 mm x Ø 45 mm	295g	51g
<b>WiSens TBD</b>	220 mm x Ø 45 mm	420g	51g
<b>Protection TD / Chloro A / DO / TBD</b>	230 mm x Ø 94 mm	760g	A few grams
<b>Protection CTD</b>	275 mm x Ø 94 mm	868g	64g

# MEASURED PARAMETERS

	DEPTH	TEMPERATURE	TURBIDITY	CONDUCTIVITY	SALINITY	SOUND VELOCITY*	O2 CONCENTRATION	O2 SATURATION	CHLOROPHYLL-A
<b>WiSens TD</b>	30/300/1000m Accuracy: 0.1% 6000m Accuracy: 0.1%	Range: -2°C to +35°C Accuracy: 0.02°C							
<b>WiSens Wave</b>	30m Accuracy: 0.1%	Range: -2°C to +35°C Accuracy: 0.02°C							
<b>WiSens CTD freshwater</b>	30m Accuracy: 0.1%	Range: -2°C to +35°C Accuracy: 0.02°C		Range: 0-10 mS/cm Accuracy: 10 µS/cm					
<b>WiSens CTD seawater</b>	30m / 300m Accuracy: 0.1%	Range: -2°C to +35°C Accuracy: 0.02°C		Range: 0-70 mS/cm Accuracy: 0.05 mS/cm	Range: 2-42 PSU Accuracy: 0.1 PSU	Range: 1300-1700 m/s Accuracy: 0.001 m/s			
<b>WiSens Chloro A</b>	30/300/1000m Accuracy: 0.1%	Range: -2°C to +35°C Accuracy: 0.02°C							Range: 0-500ppb** Accuracy: Linearity: r <sup>2</sup> >0.99 for Rhodamine WT
<b>WiSens DO</b>	30/300/1000m Accuracy: 0.1%	Range: -2°C to +35°C Accuracy: 0.02°C					Range: 0-23 mg/L (max.0-44 mg/L) Accuracy: ± 0.1 mg/L	Range: 0-250% (max. 0-500%) Accuracy: ± 1% of reading	
<b>WiSens TBD</b>	30/300m Accuracy: 0.1%	Range: -2°C to +35°C Accuracy: 0.02°C		Range: 0-4000 FNU Accuracy: 0.4 FNU or 5% of reading					

\*calculation based on Unesco Technical Papers in Marine Science 44, 55 pp.

\*\*equivalent µg/L

# WEB EMBEDDED INTERFACE

JUST ACTIVATE WIFI & TRANSFER WISENS DATA



## WISENS ACCESSORIES

MOORING CLAMP



FISHING GEAR PROTECTION



WIFI MAGNET



# MULTI-APPLICATION LOGGERS



**marine  
SUBMERGENCE**



**environmental  
MONITORING**



**deep  
SEA**



**fishing  
ACTIVITIES**

**The most flexible underwater dataloggers range  
on the market fitting all your applications**

# WiHub SOLUTION



## WiHub

The end-user retrieves automatically the data from the WiHub via his communication facility:  
**3G/4G, Ethernet or WiFi.**

When WiSens loggers are out of the water, they transfer automatically their data to the WiHub. The WiHub will send those data and its location to its web interface, or through email or FTP to your own solution.

**Power supply:** 9-27 V DC

**Storage temp:** -20°C to +70°C

**Positioning:** GNSS

**Operating temp:** -20°C to +50°C

**Watertightness:** IP67

**Protocols:** FTP/SMTP/http

## 4 customer application



## FISHING ENVIRONMENT

transmission **3**

data reception **2**

**1** data measurements and recording

**4** ethernet

3G  
4G

## ENVIRONMENTAL MONITORING

**3**

**4** reception of recorded data

**1**

3G  
4G

wifi

## 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.

