WiSens

UNDERWATER DATA LOGGERS

nke INSTRUMENTATION

WiSens RANGE

30m

300m

1000m

6000m

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.**

WiSens WAVE

For tide, waves and temperature.

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.** (The TD 6000 is housed in a titanium body.)

TECHNICAL FEATURES

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

PHYSICAL FEATURES

TYPE	DIMENSIONS	WEIGHT IN AIR	APPROXIMATE WEIGHT IN WATER
WiSens TD 30 / 300 / 1000m	220mm x Ø 45mm	267g	51g
WiSens Wave	220mm x Ø 45mm	262g	51g
WiSens CTD	320mm x Ø 45mm	320g	A few grams
WiSens Chloro A	220mm x Ø 45mm	283g	51g
WiSens DO	220mm x Ø 45mm	295g	51g
WiSens TBD	220mm x Ø 45mm	287g	51g
Protection TD / Chloro A / DO / TBD	230mm x Ø 94mm	760g	A few grams
Protection CTD	275mm x Ø 94mm	868g	64g

MEASURED PARAMETERS

	DEPTH	TEMPERATURE[1]	TURBIDITY	CONDUCTIVITY	SALINITY	SOUND VELOCITY[2]	O2 CONCENTRATION	O2 SATURATION	CHLOROPHYLL-A
WiSens TD	30/300/1000m **Accuracy:** 0.1% 6000m **Accuracy:** 0.1%	**Range:** -2°C to +35°C **Accuracy:** 0.02°C							
WiSens Wave	30m **Accuracy:** 0.1%	**Range:** -2°C to +35°C **Accuracy :** 0.02°C							
WiSens CTD freshwater	30m **Accuracy:** 0.1%	**Range:** -2°C to +35°C **Accuracy:** 0.02°C		**Range:** 0-10 mS/cm **Accuracy :** 10 µS/cm					
WiSens CTD seawater	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			
WiSens Chloro A	30/300/1000m **Accuracy:** 0.1%	**Range:** -2°C to +35°C **Accuracy:** 0.02°C							**Range:** 0-500ppb[3] **Accuracy:** Linearity: r^2>0.99 for Rhodamine WT
WiSens DO	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	
WiSens TBD	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						

[1] Response time: T63 < 1s except for TD6000 [2] Calculation based on Unesco Technical Papers in Marine Science 44, 55 pp. [3] Equivalent µg/L

WEB EMBEDDED INTERFACE

WISENS ACCESSORIES

MULTI-APPLICATION LOGGERS

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

WiHub
SOLUTION

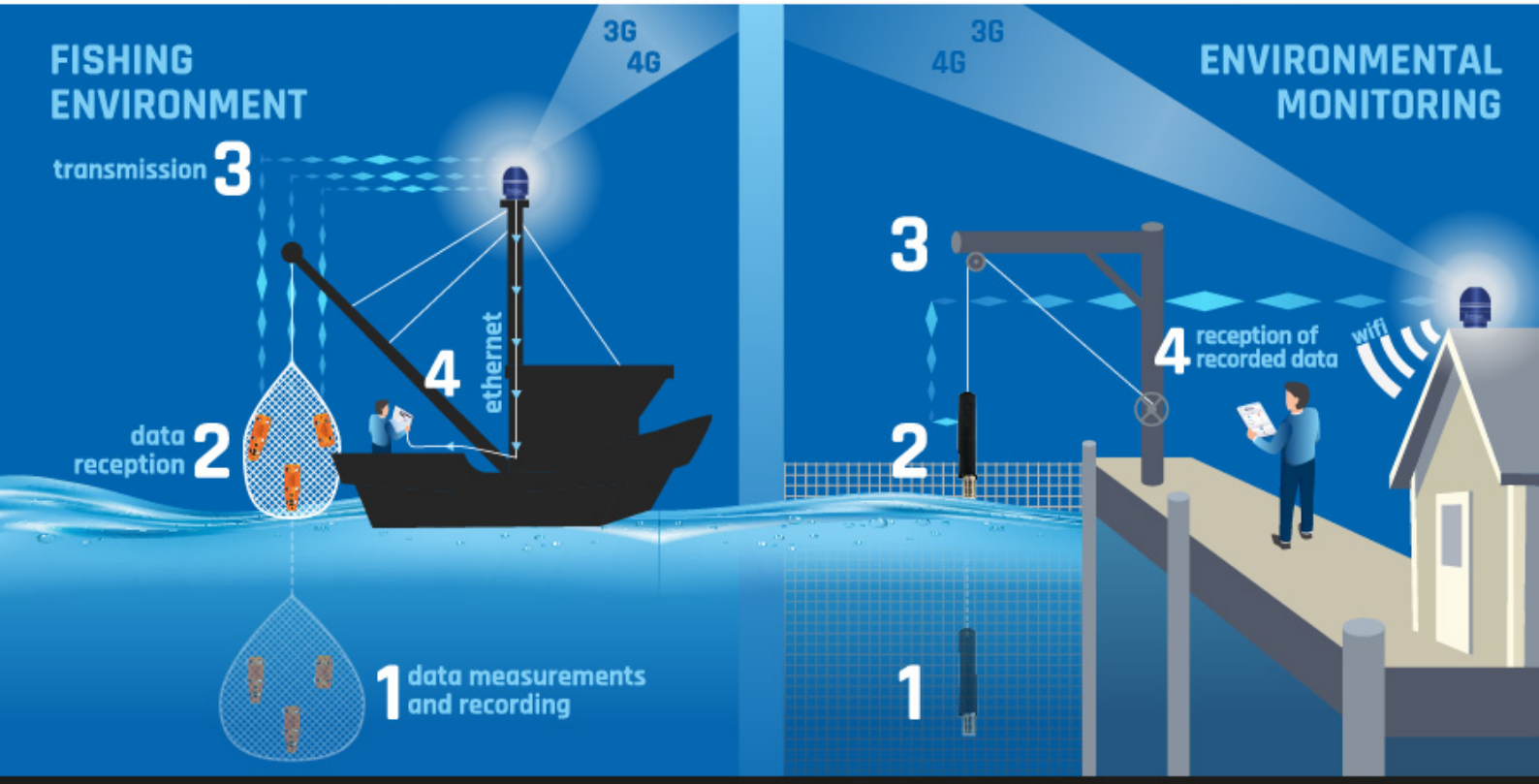
WiHub

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

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 applications



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.