



UNDERWATER DATA LOGGERS



nke
INSTRUMENTATION

WiSens RANGE

30m

300m

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.

1 000m

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.
(TD 6000 in titanium)

6 000m

TECHNICAL FEATURES

Time	Internal clock with calendar	< 1 min/month
Start and Stop Mode	Manual or programmable	Pressure or temperature level trigger, date condition
Sampling Rate	TD / CTD / TBD / Chloro A / 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 1 min to 1 h)
Autonomy	Memory Energy	16 Mb (3 millions measures) 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 (100 g battery included)	WEIGHT IN WATER
WiSens TD 30 / 300 / 1 000 m	220 mm x Ø 45 mm	361 g	51 g
WiSens Wave	220 mm x Ø 45 mm	361 g	51 g
WiSens CTD	320 mm x Ø 45 mm	421 g	A few grams
WiSens Chloro A	220 mm x Ø 45 mm	374 g	51 g
WiSens DO	220 mm x Ø 45 mm	392 g	51 g
WiSens TBD	220 mm x Ø 45 mm	384 g	51 g
Protection TD / Chloro A / DO / TBD	230 mm x Ø 94 mm	760 g	A few grams
Protection CTD	275 mm x Ø 94 mm	868 g	64 g

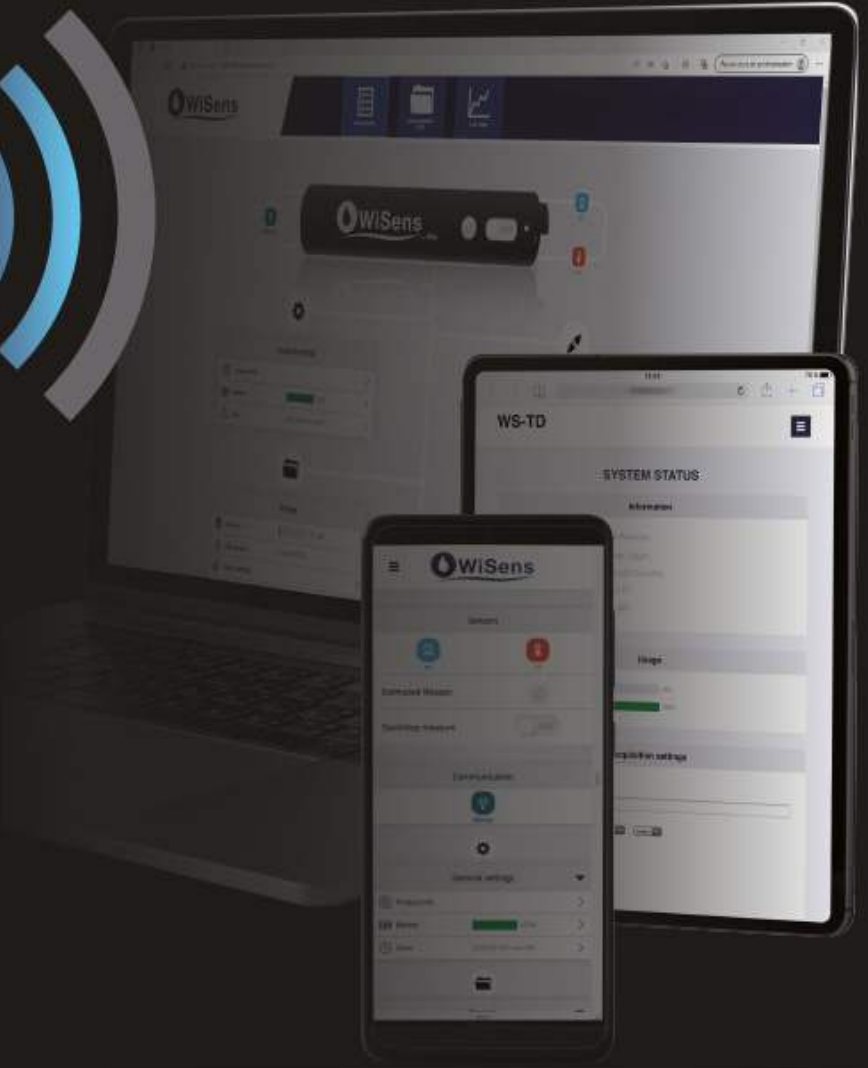
MEASURED PARAMETERS

PARAMETER	WISENS	RANGE	ACCURACY
Depth	All WiSens	30 m	0.1 %
	All except WiSens Wave and CTD (fresh water)	300 m	
	WiSens TD / WiSens Chloro A / WiSens DO	1 000 m	
	WiSens TD 6000	6 000 m	
Temperature¹	All WiSens	-2 °C to +35 °C	0.02 °C
Turbidity	WiSens TBD	0-4000 FNU	0,4 FNU or 5 % of reading
Conductivity	WiSens CTD (fresh water)	0-10 mS/cm	10 µS/cm
	WiSens CTD (sea water)	0-70 mS/cm	0,05 mS/cm
Salinity	WiSens CTD (sea water)	2-42 PSU	0.1 PSU
Sound velocity²	WiSens CTD (sea water)	1300-1700 m/s	0.001 m/s
O₂ concentration	WiSens DO	0-23 mg/L (max. 0-44 mg/L)	± 0.1 mg/L
O₂ saturation	WiSens DO	0-250 % (max. 0-500 %)	± 1 % of reading
Chlorophyll-A	WiSens Chloro A	0-500 ppb ³	Linearity: r ² > 0.99 for Rhodamine WT

¹ Response time: T63 < 1 s except for TD 6 000 ² Calculation based on Unesco Technical Papers in Marine Science 44 ³ 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 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



FISHING ENVIRONMENT

transmission 3

data reception 2

1 data measurements and recording

4 ethernet

3G
4G

ENVIRONMENTAL MONITORING

3

2

1

4 reception of recorded data

wifi

3G
4G

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