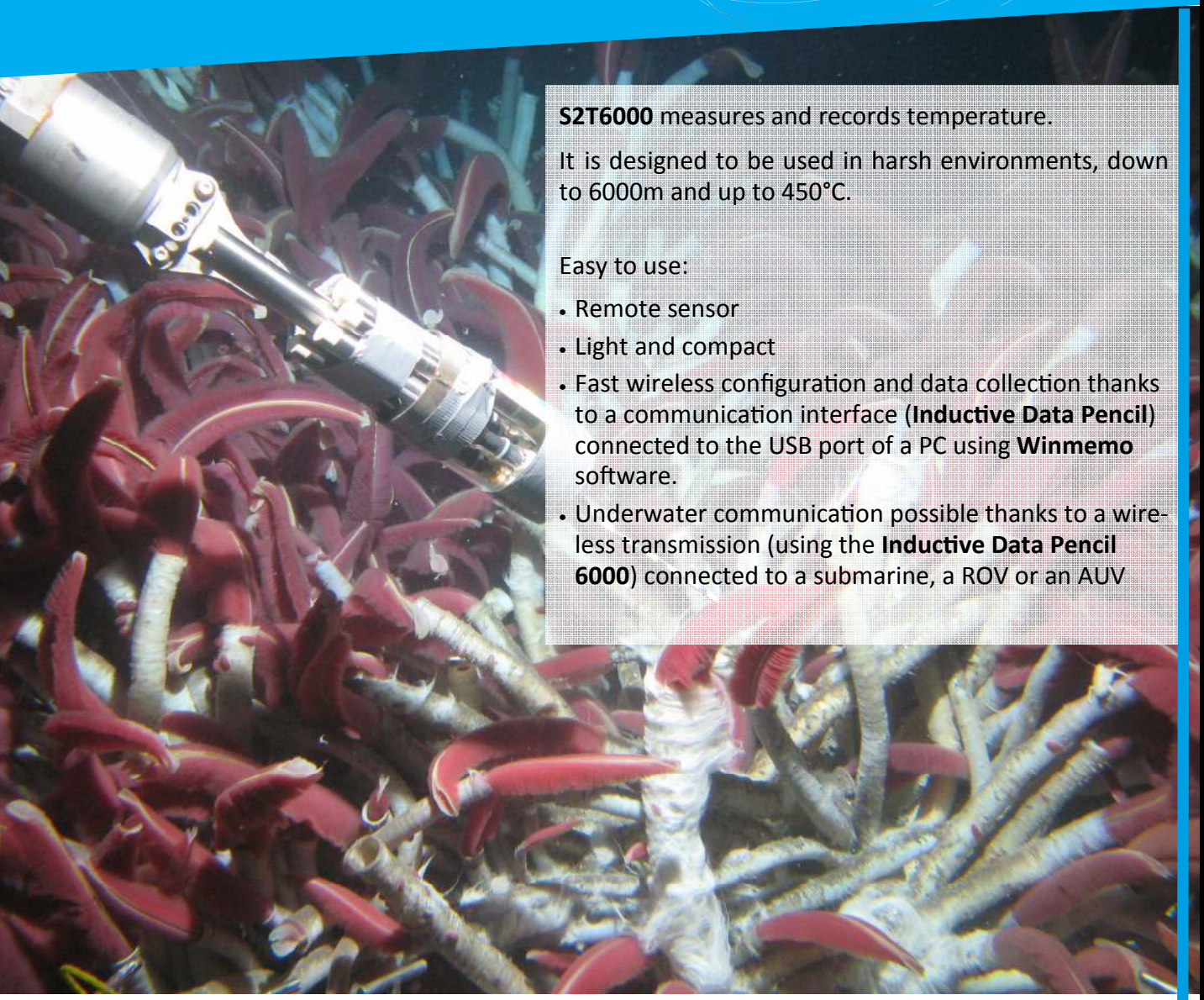
S2T6000
temperature data logger

Temperature monitoring in deep water

Data loggers



S2T6000 measures and records temperature.

It is designed to be used in harsh environments, down to 6000m and up to 450°C.

Easy to use:

- Remote sensor
- Light and compact
- Fast wireless configuration and data collection thanks to a communication interface (**Inductive Data Pencil**) connected to the USB port of a PC using **Winmemo** software.
- Underwater communication possible thanks to a wireless transmission (using the **Inductive Data Pencil 6000**) connected to a submarine, a ROV or an AUV

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Data loggers

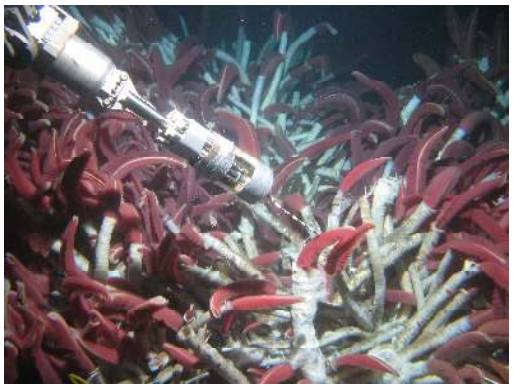
S2T6000 *autonomous data logger*

Deep sea temperature monitoring

DESIGNATION	S2T6000	S2T6000D	S2T6000DH-Ti
Order code	60-07-153	60-07-151	60-07-326
Max depth		6000m	
Material		Ketron / Titanium / Inconel (probe)	Ketron / Titane
Sensor	External thermistor	Remote thermistor	Remote PT100
Temperature (T)			
Range		Resolution / Accuracy	
0 / 30 °C		15m°C at 15°C ±70m°C	
30 / 50°C		50m°C at 40°C ±150m°C	
50 / 70°C		120m°C at 60°C ±500m°C	
70 / 100 °C		310m°C at 85°C ±1.5°C	
0 / 70 °C	10m°C at 10°C ±0.5C between 0 and 50 °C		
0 / 450°C			100°mC ±0.5°C between 0 and 100°C
Response time (63%)	<2s	<2s	<5s
Time	Internal clock with calendar, clock drift ±1.3mn / month		
Sampling rate	From 0.01 second to 99 hours		
Autonomy Memory	1Mo, enables to make at least 600 000 measures		
Energy	> 2 years at 1s sampling rate (replaceable Lithium batteries)		
Data transmission	Wireless configuration and data collection with an inductive link (Data Pencil) and a PC computer		
Mechanical features			
Probe dimensions	Ø 2.5 x 5 mm	Ø 2x 150* mm	Ø 6x600* mm
Housing dimensions	Ø 22 x 122 mm (without the probe)		

Example of use of the S2T6000:

- SPHT pH and sulfide, S2T6000 and SPOT data loggers handled by the ALVIN submarine to make ponctual measurements on a hydrothermal spring at 2018m depth.



Picture N. Le Bris/ LECOB-UPMC/CNRS, © WHOI/Sievert

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