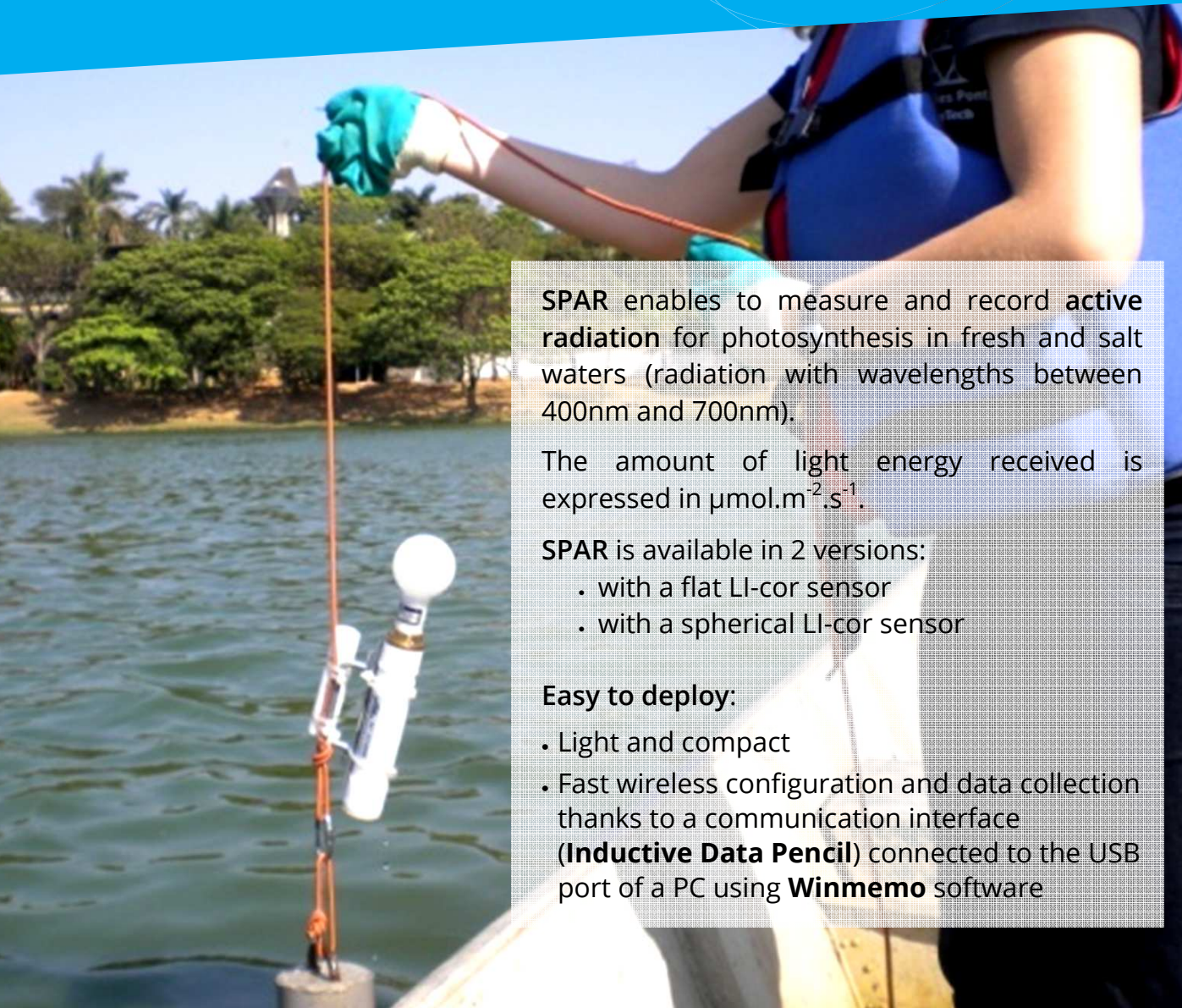


# SPAR irradiance data logger

Active radiation for photosynthesis  
in fresh and salt waters



SPAR enables to measure and record **active radiation** for photosynthesis in fresh and salt waters (radiation with wavelengths between 400nm and 700nm).

The amount of light energy received is expressed in  $\mu\text{mol.m}^{-2}.\text{s}^{-1}$ .

SPAR is available in 2 versions:

- with a flat LI-cor sensor
- with a spherical LI-cor sensor

Easy to deploy:

- 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

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INSTRUMENTATION

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# SPAR *autonomous data logger*

Active radiation measurements for photosynthesis

SPAR data loggers are compatible with LI-cor sensors **LI-192SA** and **LI-193SA** .

DESIGNATION		SPAR
<b>Order code</b>		60-07-400 Flat LI-cor sensor
		60-07-399 Spherical LI-cor sensor
<b>Maximum depth</b>		300 m
<b>Operating temperature</b>		-10°C / 45°C
<b>Time</b>		Internal clock with calendar, clock drift 1min/ month
<b>Sampling rate</b>		Programmable from 1 second to 99 hours
<b>Autonomy</b>	Memory	1Mo with data compression
	Energy	12000 days (depending on sampling rate)
<b>Radiation in air channel</b>	Measurement range	0 - 2000 $\mu\text{mol s}^{-1} \text{m}^{-2}$
	Resolution (12bits)	0,5 $\mu\text{mol s}^{-1} \text{m}^{-2}$
<b>Radiation in shallow water channel</b>	Measurement range	0 - 1000 $\mu\text{mol s}^{-1} \text{m}^{-2}$
	Resolution (12bits)	0,24 $\mu\text{mol s}^{-1} \text{m}^{-2}$
<b>Radiation in deep water channel</b>	Measurement range	0 - 100 $\mu\text{mol s}^{-1} \text{m}^{-2}$
	Resolution (12bits)	0,024 $\mu\text{mol s}^{-1} \text{m}^{-2}$
<b>Mechanical features</b>	Housing	Tube in plastic (cap in Ketron)
	Dimensions	Housing $\varnothing$ 40 x 183mm (probe $\varnothing$ 5 x 130mm)
	Weight in air	Flat SPAR: 641g Spherical SPAR: 588g



Flat  
< SPAR Li-cor



Spherical  
< SPAR Li-cor



Sales Department

Tel : +33 (0)2 97 36 41 31 - Fax : +33 (0)2 97 36 55 17  
info.instrumentation@nke.fr  
www.nke-instrumentation.com

