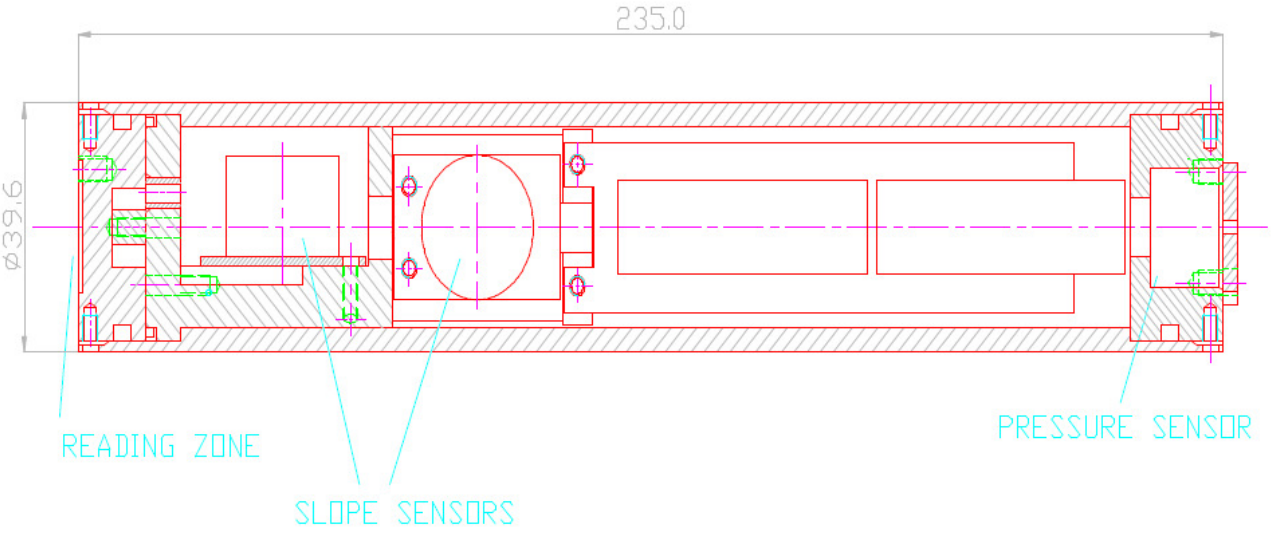
SWALE OCEANOGRAPHIC

S2IP

DUAL AXIS INCLINOMETER 300 or 6000 m

Available in Accelerometer (2 or 3 axes) configuration

The S2IP measures and stores the pressure and the angle of immersed objects such as particle traps or other immersed structures, using measurements taken on 2 or3 perpendicular axis, over a long period of time.
The integrated S2IP can have an autonomy of more than one year according to the adjustments and the variations of measurements. (see example)



COMPLETELY WATERPROOF AND EASY TO USE

No connection problems, perfectly sealed: the Inclinometer doesn't need opening or dismantling.
Data are transferred via the RS 232 output, using an inductive pencil reader touched to the head of the S2IP.
User-friendly software converts the information for display.

SOLID AND LONGLASTING

A lithium battery incorporated in the S2IP assures a life of over three years. The selected materials avoid corrosion problems and the small size of the frame enables the inclinometer to sit easily on almost any immersed structure.

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SPECIFICATIONS

Designation	**S2IP300**	**S2IP6000**
Order code	**60-07-028**	**60-07-019**
Angle range	**+/-85°**	**+/-85°**
Resolution	**<0.1° at 30°**	**0.4° at 80°**
Accuracy	**+/-0.3° from -20° to +20°**	
Maximum depth	**300 m**	**6000 m**
Angle sensor	Accelerometer +/-2G	
Pressure sensor	Piezoresistive, case and diaphragm in Hastelloy	
Sensors response time	10 ms	
Depth resolution	< 0.15m	< 3m
Depth accuracy	0.3 % full scale	
Weight (in air)	600 g	
Length	235 mm	
Diameter	40 mm	
Material	Titanium and Ketron	
Sample rate	Programmable from 5 milliseconds to 99 hours	
Programmable	Immediate, Delayed, or On threshold (by depth or angle)	
Memory*	1Mb or 4Mb optional (with data compression)	

(*) Memory capacity depends on the adjustment of the inclinometer and the variation of the measurement.

	Adjustments	**Variation**	**Memory capacity**
Example 1	resolution : 0.2° (angle)	angle : < 1.1 °	150 days
	resolution : 1 m (300m depth range)	depth : < 74 metres	
	period: 1 min of storage		
Example 2	resolution : 0.2° (angle)	angle : < 0.95°	4 years
	resolution : 1 m (300m depth range)	depth : < 63 metres	
	period: 10 min of storage		

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