## **SCPC** Cathodic Protection Criteria

In situ assessment of marine structures cathodic protection need in deep sea or harbour



SCPC provides in situ the value of current density necessary to protect an immerged metallic structure.

It allows to determine the characteristics of the cathodic protection needed: size, number of sacrificial anodes, power supply.

Current density depends on the **environmental parameters** (dissolved oxygen, marine currents, temperature) which influence electrochemical reactions on the surface of the structure to protect.

The originality of SCPC lies in the fact that the **instrument housing is made of the tested alloy**.

## Easy to deploy:

- Light and compact, no external wire
- 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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## SCPC autonomous data logger

Determining cathodic protection criteria



The system consists of:

- a zinc reference electrode
- a sacrificial anode: aluminium indium / other on request
- a cathode (the metal to be protected)

SCPC	is	available	with	2	different	standard	housings:
steel an	d stai	nless steel.					_

DESIGNAT	ION	SCPC		
Order reference		60-07-040 5 sh <b>22</b> , 44, 66, 8 <i>By default</i>	unts available : 88 ou 110Ω	
Voltage	Range Resolution Accuracy (linearity, hy Input impedance of th	steresis, repeatability) le measurement stage	± 1V < 1mV < 10mV > 10 <sup>E</sup> 11Ω	
Current	Range Resolution Accuracy (linearity, hy Input impedance of th	steresis, repeatability) ne measurement stage	30μA à 10mA < 3μA < 50μA > 10 <sup>E</sup> 11Ω	
Sampling rate Autonomy	Memory Energy	Programmable from 0.01 seco > 3 years recording at 1h 3 replaceable Lithium batterie	ond to 99 hours	
Mechanical features	Max. operating rate Operating temperatur Dimensions Weight in air	e	300 bars 0 to +30°C Housing Ø 40 x 274 mm 950 gr	

## Examples of use of SCPC

 In situ assessment of cathodic protection of marine structures (deep sea, harbours ...)



Pictures by ACCOAST and nke Instrumentation



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