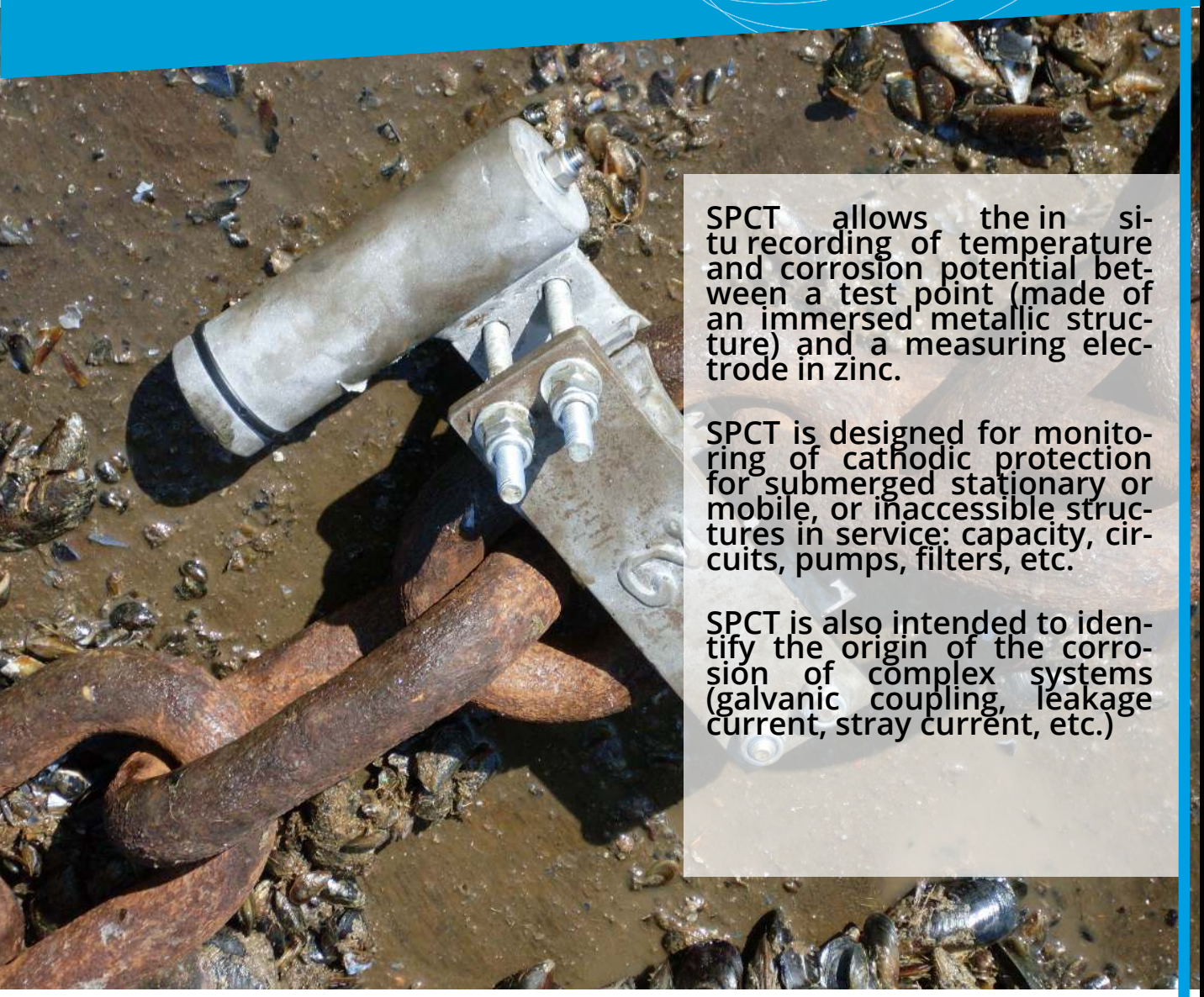
SPCT

Corrosion potential and temperature data logger

Data loggers



SPCT allows the in situ recording of temperature and corrosion potential between a test point (made of an immersed metallic structure) and a measuring electrode in zinc.

SPCT is designed for monitoring of cathodic protection for submerged stationary or mobile, or inaccessible structures in service: capacity, circuits, pumps, filters, etc.

SPCT is also intended to identify the origin of the corrosion of complex systems (galvanic coupling, leakage current, stray current, etc.)

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Data loggers

SPCT *corrosion potential data logger*

DESIGNATION		SPCT
Logger	Measuring rate	Programmable from 1 s to 99 h
	Clock drift	1 min / month
	Interface PC	Electromagnetic transmission without connector (connected to a serial PC port)
	Using température	-10 °C / +45 °C
Autonomy	Memory	Recording 10s : > 4 month Recording 10mn : > 5 years
	Power	OFF : > 5 years Recording 10sec : > 22 month Recording 10mn : > 3 years
Voltage The voltage measured corresponds to the potential difference between the test point and the measuring electrode in pure zinc.	**Standard range** *Example; stainless steel, monitoring*	Measuring range: -1900mV to +1900mV Resolution: < 1.5 mV Accuracy (hysteresis, linearity and repeatability): +/- 10mV High impedance input: > 109 Ω
	Reduced range *Example: cathodic protection, monitoring*	Measuring range: -100mV to +550mV Resolution: < 220µV Accuracy (hysteresis, linearity and repeatability): +/- 2mV High impedance input: > 109 Ω
Temperature	Measurement range	:-2°C/+30°C.
	Maximum resolution	11m°C at 0°C, 13m°C at 10°C, 20m°C at 20°C
	Accuracy	< 0.5°C
	Response time	< 10 min at 63%
Mechanical features	Dimensions	length: 165mm, diameter: 35mm.
	Materials	Body made of engineered plastic, plug, threaded rod and nut made of Titanium.
	Weight in air	approx. 200g
	Maximum immersion	450 m.

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