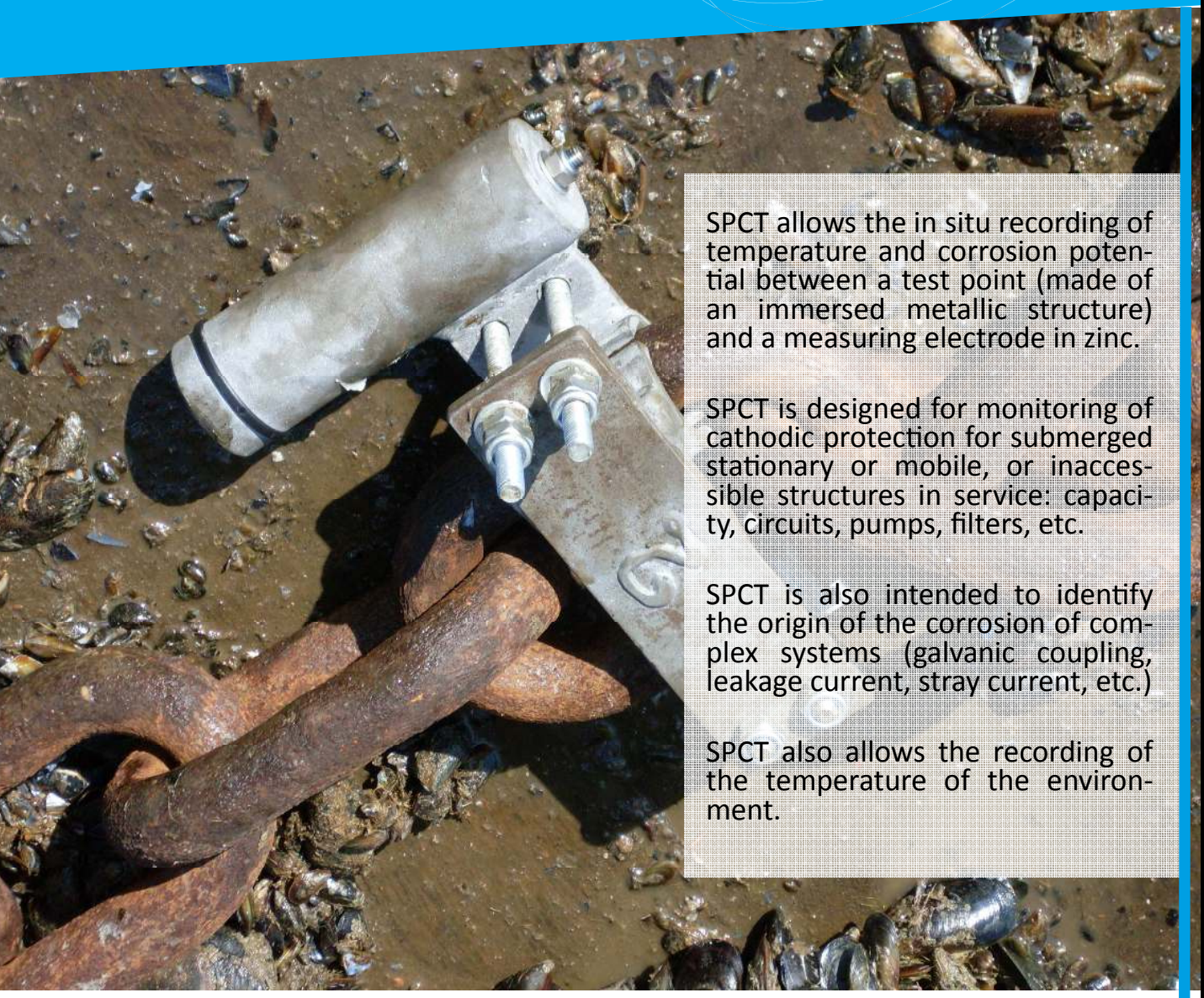
SPCT

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.)

SPCT also allows the recording of the temperature of the environment.

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Data loggers

SPCT *corrosion potential data logger*

DESIGNATION		SPCT
Lgger	Measuring rate	Programmable from 1 s to 99 h
	Clock drift	1 min / month
	Interface PC	Electromagnétic transmission without connectorecteur (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
Voltage The voltage measured corresponds to the potential difference between the test point and the measuring electrode in pure zinc. Optional: Possible range if a silver/silver chloride measuring electrode is used	**Standard range**	Measuring range: -1900mV to +1900mV Resolution: < 1.5 mV Accuracy (hysteresis, linearity and repeatability): +/-10mV High impedance input: > 109 Ω
	Reduced reange	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	lower than 0.5°C
	Sensor	Thermistor
	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.

Distribué par :

Institut de la Corrosion
French Corrosion Institute

Institut de la Corrosion
220 rue Pierre Rivoalon
29200 BREST, FRANCE
Contacts : Dominique Festy/Frédéric Ledan
tél. 02 98 05 15 52
fax 02 98 05 08 94

info@institut-corrosion.fr

nke INSTRUMENTATION

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

Conception I-TEKWEB - 09 66 44 88 98