

## Interference Corrosion Logger (ICL) for CP verification

***With fully integrated a.c. & d.c. acquisition***

***- Specialised for detection of corrosion influenced by a.c./d.c. stray current***

- Logging on-line - time stamped data from ER coupons and traditional coupons
- Comparing corrosion rate and electrical fingerprints
- Pipe to soil a.c. voltage, coupon a.c. current, spread resistance
- Pipeline d.c.-potential and coupon d.c. current
- Small, battery powered or mains supply - solar panel option
- Excel-based graphical templates allow individualised presentation designs
- Option for remote control by GPRS and data network - LAN/WLAN

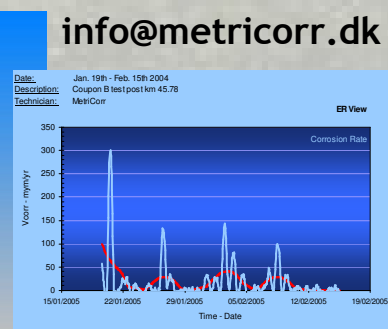
The MetriCorr Interference Corrosion Logger (ICL-02) is a dual channel logger, which can be placed in a standard test post to monitor up to 2 coupons. The coupons are connected to the pipe or structure through the logger, and a reference electrode is connected to the logger.

The ICL-02 quantifies corrosion of ER-coupons. It logs the decrease in ER-coupon thickness, while it measures pipeline a.c voltage and d.c. potential, a.c. and d.c. current density and spread/leakage resistance of each coupon. The ICL-02 provides a diagnostic tool for any corrosion detected.

The logging frequency can be chosen within wide limits. Intense measurements can be selected for evaluation of the variation throughout the day of the electrical parameters. A few measurements a day can be chosen for long term monitoring purposes or hour-by-hour measurements for corrosion rate evaluation.

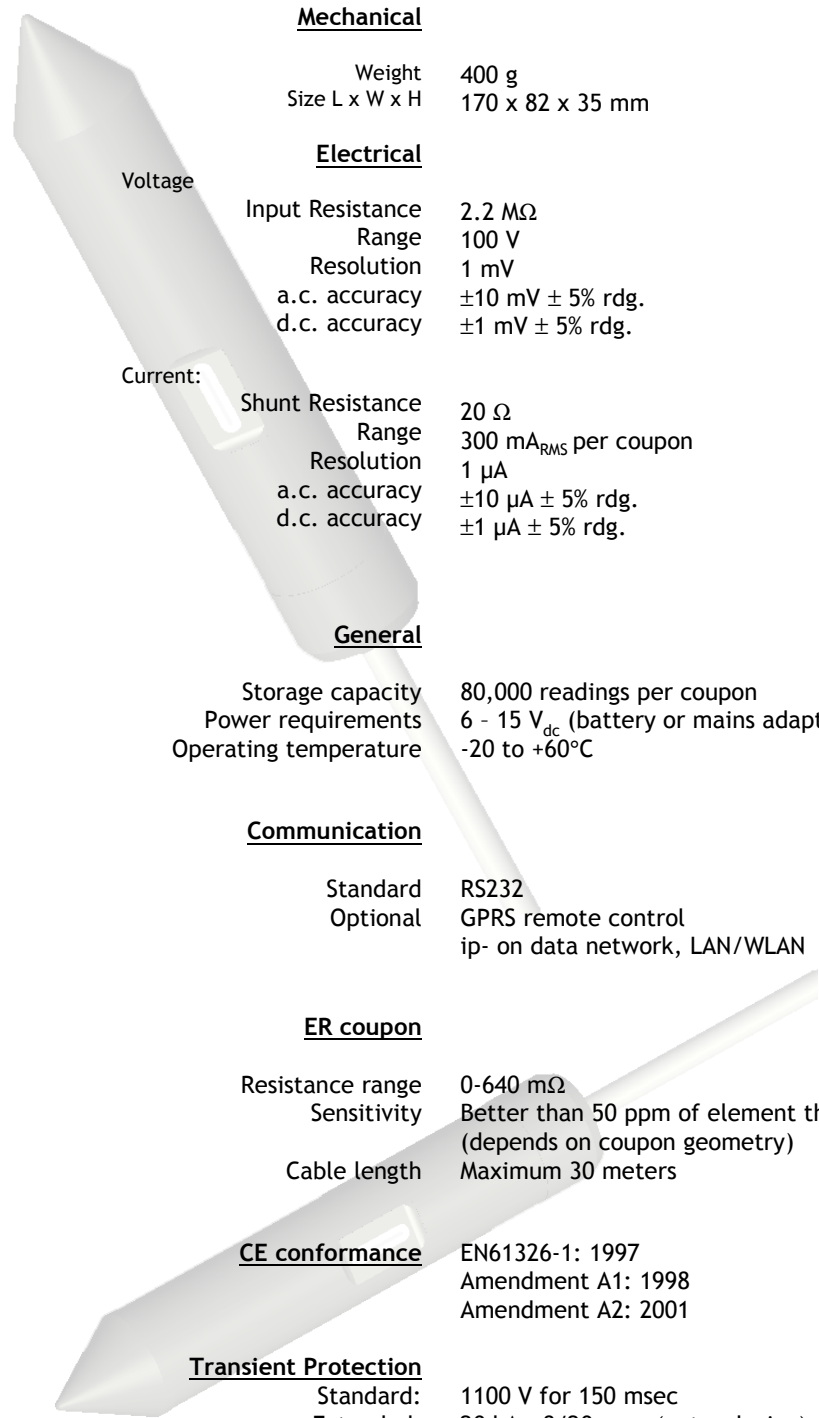
Using MetriCorr excel based graphical presentation templates, which are freely downloaded from our web-site, the data can be presented in individualised design for the consultants report.

Optionally, the logger can be remote controlled by GPRS or addressed on a LAN/WLAN network.



# Interference Corrosion Datalogger (ICL) for CP verification

## Technical data



	<b><u>Mechanical</u></b>	
	Weight	400 g
	Size L x W x H	170 x 82 x 35 mm
	<b><u>Electrical</u></b>	
Voltage	Input Resistance	2.2 M $\Omega$
	Range	100 V
	Resolution	1 mV
	a.c. accuracy	$\pm 10$ mV $\pm 5\%$ rdg.
	d.c. accuracy	$\pm 1$ mV $\pm 5\%$ rdg.
Current:	Shunt Resistance	20 $\Omega$
	Range	300 mA <sub>RMS</sub> per coupon
	Resolution	1 $\mu$ A
	a.c. accuracy	$\pm 10$ $\mu$ A $\pm 5\%$ rdg.
	d.c. accuracy	$\pm 1$ $\mu$ A $\pm 5\%$ rdg.
	<b><u>General</u></b>	
	Storage capacity	80,000 readings per coupon
	Power requirements	6 - 15 V <sub>dc</sub> (battery or mains adaptor)
	Operating temperature	-20 to +60°C
	<b><u>Communication</u></b>	
	Standard	RS232
	Optional	GPRS remote control ip- on data network, LAN/WLAN
	<b><u>ER coupon</u></b>	
	Resistance range	0-640 m $\Omega$
	Sensitivity	Better than 50 ppm of element thickness (depends on coupon geometry)
	Cable length	Maximum 30 meters
	<b><u>CE conformance</u></b>	EN61326-1: 1997 Amendment A1: 1998 Amendment A2: 2001
	<b><u>Transient Protection</u></b>	
	Standard:	1100 V for 150 msec
	Extended:	20 kA - 8/20 $\mu$ sec (extra device)

Information within this sheet subject to change without notice