

Slimline ICL Test Station

Corrosion Rate and Cathodic Protection Data
Ideal Interference Corrosion Analysis

FEATURES

Complete instrumented test station (Big Fink or customized)

2 probe channels (native measurement option)

ER probe for measurement of corrosion rate

Long battery life – solar option

Remote monitoring - cellular or satellite via Masterlink module

GPS time synchronization

Data presentation, analysis, reporting in CP*Manage Web

MEASUREMENTS

- ✓ Corrosion Rate
- ✓ DC potential
 - ✓ On (pipeline)
 - ✓ instant-off (pipeline)
 - ✓ Instant-off (coupon)
 - ✓ IR-free (coupon)
 - ✓ Native (option)
- ✓ DC current density
- ✓ AC voltage
- ✓ AC current density
- ✓ Spread resistance

DATA AT YOUR FINGERTIPS – WHEREVER YOU ARE!

The Slimline ICL (Interference Corrosion Logger) is designed for comprehensive CP and AC or DC interference analysis and utilization of high sensitivity ER probes allows for direct verification of the effectiveness of any mitigation measures. Any measurement of corrosion can be analyzed wrt. relevant electrical fingerprints. The logger can monitor 2 ER probes, for example one 1cm² and one 10cm², or one connected and one native probe (custom setting).

The MetriCorr ICL test station is part of a complete remote monitoring system for pipelines and associated components like T/R's, line current spans, critical bonds, etc.

Like the rest of the MetriCorr Slimline product family, the ICL is intended as a remote monitoring unit (RMU), a data logging device, or simply as a spot reading device. It may be operated through the MetriCorr CP*Manage Web or through the MetriCorr iOS/Android App.

The Slimline product family fits into Big Fink test stations (see example on the right), MetriCorr tests stations, junction boxes, or can be customized to fit into the operator's preferred embodiment. Refer to info sheet IS-PL-70.

The Slimline logger series from MetriCorr are modular. The ICL module is the data-logging part of the Slimline ICL/Masterlink assembly where pipe, reference and ER or coupon channels are situated. The Masterlink Module is the remote monitoring unit (RMU) where power and communication is controlled.

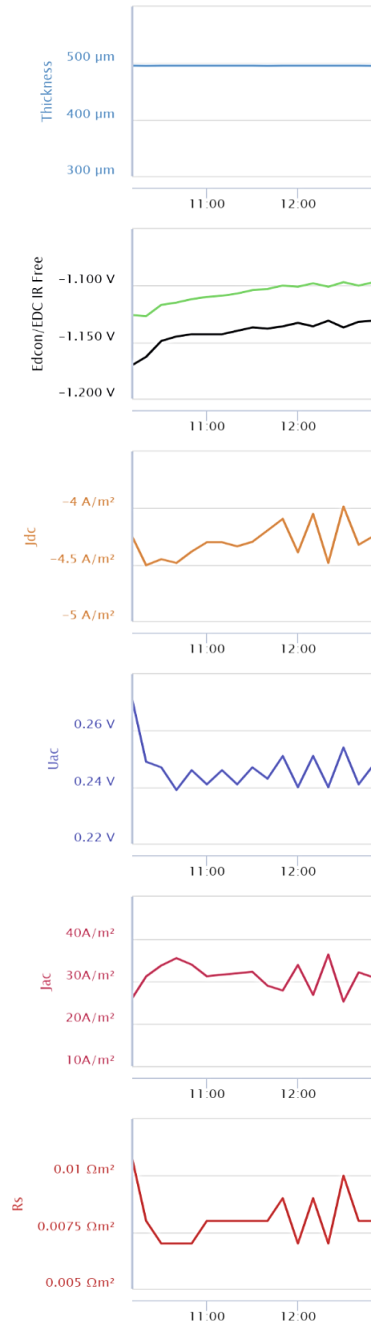


Installation example



Technical specifications - ICL

Technical data		
Storage capacity	+200 000 readings	
Logging interval	10 min – ∞, Typically 1 hour 1s (intensive mode)	
Power supply options	<ul style="list-style-type: none"> - Mains adapter 100–240 V AC / 12 V DC - Solar Power (MetriCorr types available) - Battery Module 	
Battery Lifetime	+3 years @ hourly logging, weekly upload +10 years @ 6 times daily	
Casing	IP65	
Humidity	0 to 100% RH condensing conditions	
Operating conditions	-40°C to +85°C	
Transient protection	1100 V for 150 ms – 20 kA @ 8/20 μs 12.5 kA @ 10/350 μs (optional)	
Test Station Options	<ul style="list-style-type: none"> - Big Fink (example shown on p. 1) - MetriCorr Type Test Station - Junction Box - Customer's own spec 	
Size L x W x H	250 x 68 x 81 mm	
Communication	<ul style="list-style-type: none"> - LTE Cat. 1 - 4G/5G with 2G/3G fall back - Satellite (option) - Android or iOS App - Bluetooth - Ethernet (option) - GPS Time Synchronization - GNSS (Position) 	
Voltage (Edc, Uac)	Input resistance	+10.0 MΩ
	Range	100 V
	Resolution	0.1 mV DC / 1 mV AC
	DC accuracy	± 1 mV ± 0.3%
	AC accuracy	reading
		± 1 mV ± 1% reading
ER/coupon channel characteristics	Resistance range	150 mΩ
	Precision	0.8 μΩ
	Repeatability	0.4 μΩ
	Current	300 mA/probe



CP*Manage Web data example

