

# 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 1cm<sup>2</sup> and one 10cm<sup>2</sup>, or one connected and one native probe (custom setting).

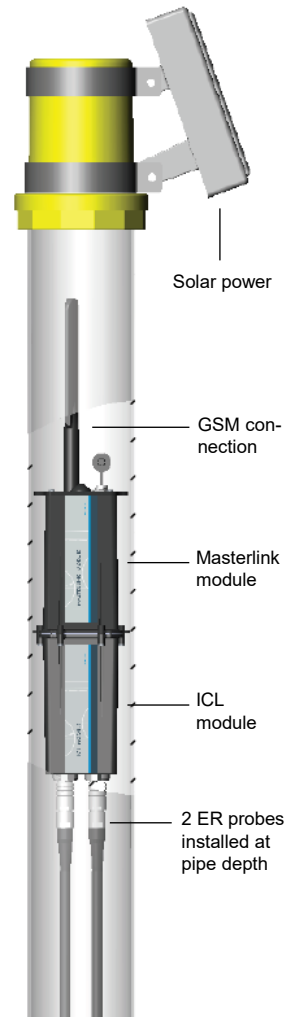
The MetriCorr ICL test station is part of a complete remote monitoring system for pipelines and associated components like T/R's, line current spans, critical bonds, etc.

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.

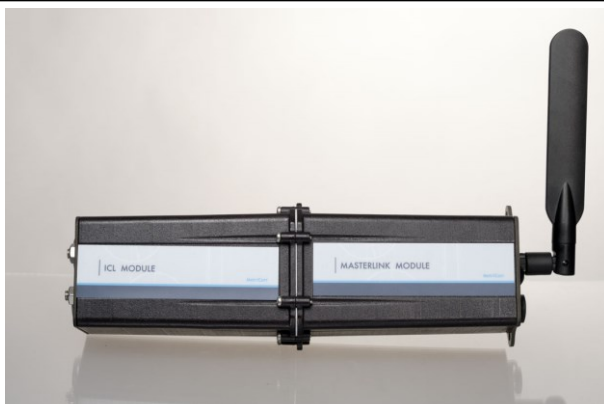
The Slimline product family fits into Big Fink test stations (see example on the right), MetriCorr tests stations, junction boxes, or can be customized to fit into the operator's preferred embodiment. Refer to info sheet IS-PL-70.

Robust surge protection based on spark gaps for high surge current handling:

- Eliminates the risk of leakage current and measurement errors
- Eliminates high voltage isolation requirements

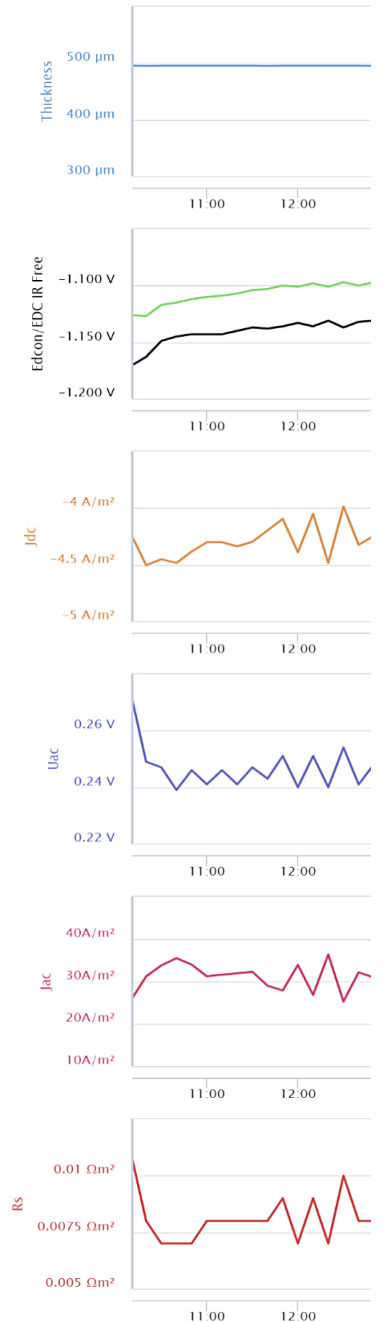


Installation example



## Technical specifications - ICL

<b>Storage capacity</b>	+200 000 readings	
<b>Logging interval</b>	10 min – ∞, Typically 1 hour 1s (intensive mode)	
<b>Power supply</b>	6 to 15 VDC (Max. 200mA @ 12VDC)	
<b>Battery Lifetime</b>	Depends on battery selection – see IS-PL-70-03 “Test Stations & Power Supply”	
<b>Casing</b>	IP65	
<b>Humidity</b>	0 to 100% RH condensing conditions	
<b>Temperature</b>	-40°C to +85°C (logger)	
<b>Test Station Options</b>	<ul style="list-style-type: none"> <li>- Big Fink (Solar/Battery powered, see page 1)</li> <li>- Junction box (Solar/battery powered)</li> <li>- Junction box (AC supply 100–240VAC with surge protection)</li> <li>- MetriCorr Type Test Station</li> <li>- Customer’s own specifications</li> </ul>	
<b>Size L x W x H, weight</b>	250 x 68 x 81 mm, 390 g	
<b>Communication</b>	<ul style="list-style-type: none"> <li>- LTE Cat. 1 - 4G/5G with 2G/3G fall back</li> <li>- Satellite (optional)</li> <li>- Android or iOS App - Bluetooth</li> <li>- Ethernet (optional)</li> <li>- GPS Time Synchronization</li> <li>- GNSS (Position)</li> </ul>	
<b>ER/coupon channel characteristics</b>	Resistance range	156 mΩ
	Precision (4σ)	0.4 μΩ
	Repeatability (2σ)	0.2 μΩ
	Current	300 mA/probe
<b>Measurements</b>	Input resistance	+ 10.0 MΩ
	Range	± 100 V / 100 Vrms
	Resolution	0.1 mV DC / 1 mV AC
	DC accuracy	± 0.8 mV ± 0.3% read.
	AC accuracy	± 1 mV ± 1% reading
	AC to DC rejection	- 80 dB
<b>Surge Protection</b> EN/ISO 61000-4-5, class 4	Nom. discharge current	10 kA @ 8/20 μs
	Lightning impulse current	2.5 kA @ 10/350 μs
	Optional (Pipe-Reference)	50 kA @ 8/20 μs 50 kA @ 10/350 μs



CP\*Manage Web data example

