

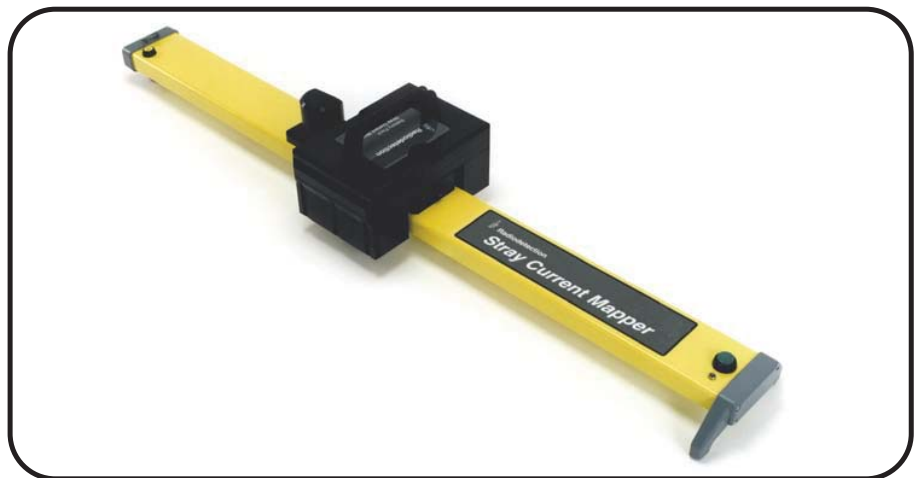
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## **RADIODETECTION – STRAY CURRENT MAPPER (SCM)**

### **Safe, non-Intrusive and Cost-effective Stray Current Surveys**

The Stray Current Mapper (SCM) is a safe and cost-effective way of mapping the magnitude and direction of stray current interference on a pipeline. These are usually caused by third party cathodic protection systems (static interference currents) or DC electrified rail systems (dynamic interference currents).

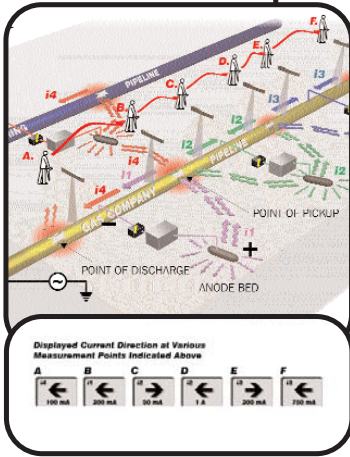
Most metal pipes have a protective coating to help prevent against the onset of corrosion. When these coatings are damaged a destructive chemical reaction occurs at the point of the defect, this causes current to flow from the pipe to the ground. This current and any other forced onto the pipeline from a foreign source is known as stray current, and significantly contributes to the corrosion process. The SCM allows you to completely map and accurately pinpoint from above ground (without connection to the pipeline) the area where current discharge is taking place (usually coating defects).



The SCM is also capable of data-logging for up to 48 hours, meaning that information can be stored over a real-time period, then processed and analysed at a later date to identify both the location and source of the interference.



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## SPECIFICATIONS / FEATURES

- SCM sensor bar containing multiple magnetometers
- Data viewer and sensor bar control software (to be installed on customer provided laptop)
- Fully weatherproof housing
- Can withstand 1m (3ft) drops onto concrete
- 48 hours data logging
- Dedicated analysis software
- Simultaneously identify up to four separate interferences (using 4 Si's)
- SmartProbe 2\* for use where there are multiple pipes and high interference areas
- Smart Interrupter\* (SI) compatibility (GPS option also available)

*\*When these products are used in conjunction with the SCM, further features are available.*

## THE SCM BENEFITS:

- Rapid assessment of stray currents from above ground without connection to the pipeline
- Determine pipeline sections effected by stray currents.
- Pinpoint the stray current pick-up and discharge points
- Display the amplitude and direction of stray currents.
- Identify the source of stray currents.
- Non-intrusively troubleshoot suspected breakdowns in cathodic protection.
- Provides data to enable negotiation between various parties involved in stray current interference problems.
- Data logging and archiving for up to 48 hours
- Can be used with multiple pipes and high interference sites

## WHO WOULD BENEFIT FROM THE SCM SYSTEM?

- Gas transmission and distribution companies
- Oil transportation companies
- Service companies and contractors in the pipeline industry
- Water and waste pipeline companies

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