

LC Probe

Local Corrosion Detection



- Detects AC & DC induced corrosion
- Patented invention
- Works without power supply
- Early warning solution
- Indicates predefined corrosion depth
- Works remotely controlled

Background

The LC Probe was originally developed to detect AC corrosion in buried pipelines.

It is well known that pipelines located in the vicinity high voltage power lines can be exposed to AC corrosion. Well coated pipelines are especially sensitive. Established corrosion monitoring is expensive and laborious. Results are often known when the corrosion has proceeded too far. Other kinds of equipment cannot monitor the most common type of AC corrosion, can cause rapid penetration of the pipe. The LC Probe can indicate this.

All other types of corrosion on the pipeline can be detected as well and the solution has also been found excellent for detecting corrosion in other areas, such as reinforcement bars in concrete structures, pipelines in refineries and tanks for petrol stations.



How it works

The LC Probe is located in the pipe trench of the pipeline it is monitoring and shall be in electrically contact to it. In this way, the LC Probe is exposed to the same environment and degree of electrical interference as the pipeline. When the deepest pit penetrates the wall of the pressurized steel tube of the LC probe the pressure inside is lost. This is indicated immediately on a pressure meter in the test post or remotely in a control centre by an alarm.



Features and benefits

- Mechanical function provides clear and reliable results. Limited maintenance and absence of laboratory analysis reduces cost.
- Simple functionality makes the LC probe reliable in rough environments.
- The LC Probe itself requires no power supply. If controlled remotely from a control centre the equipment sending the signal requires external power, which can be from a small solar panel.
- Install the LC Probe on existing and new pipe lines exposed to AC corrosion hazards, to enable early warning before the pipeline is penetrated and avoid major cost due down time in distribution.

