



# AE Remote Pipeline Monitoring

Acoustic Emission (AE) is an excellent tool for detecting and locating leaks in buried pipe. It is used to detect welding defects, corrosion, delamination and leakage. Advantages of the monitoring include the ability to inspect the entire structure, inspection of previously inaccessible areas and requiring minimum access to the pipe surface.

The system is used as a continuous monitor to track damage in a pipe such as leaking corrosion, defect growth and areas of concern.

AE Remote Pipeline Monitoring is designed for local monitoring of known areas of concern in underground pipelines. The monitoring is performed by permanently attaching acoustic sensors on the pipe with a 2 channel, independent, wireless, remote monitoring system. The sensors are placed underground attached to the pipe with the main unit above ground in a lockable, outdoor box.

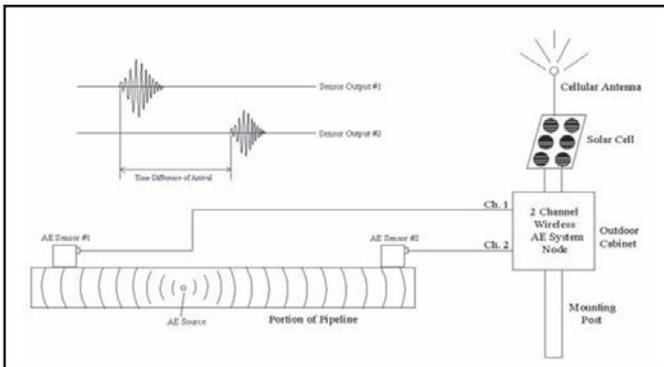
The system is solar powered with wireless internet connections. It also measures other standard AE parameters as part of the alarm decision and includes sensor coupling checks. Any AE defect information occurring between the sensors will be detected by the two sensors, using a "time difference of arrival" analysis to determine the source location between the two sensors. A location filter will assure that any location data is coming from a pre-programmed small area somewhere inside the sensor array.



A cellular modem interface is also installed as part of the system, relaying status and alarm information to the client. Also available is an optional Remote Internet Monitoring website for visual status reports in the form of activity graphs, location and clustering graphs and alarm messages via an email alert to the customer.



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