

Listen to your pipes



Benefits

- Real-time monitoring, event detection and classification
- Security and preventive maintenance
- Environmental protection
- Easy integration with existing security systems
- Proven low false alarm rate (FAR)
- Integration with existing infrastructure

Geophonix

Geophonix is the unique, field-proven, leading monitoring and detection system for oil and gas pipelines.

This passive seismic system provides detection and classification of hitting, digging, leaking and various additional actions on & in the pipelines' vicinity.

Geophonix is a wireless array of unattended acoustic/seismic sensor system, which enables the detection, classification and localization of sound waves and vibrations being transmitted through soil and/or the pipeline itself.

The sensors are linked via a dedicated wireless communication.

The system's sensitivity is configurable.

Advanced Algorithms Analyze Signals

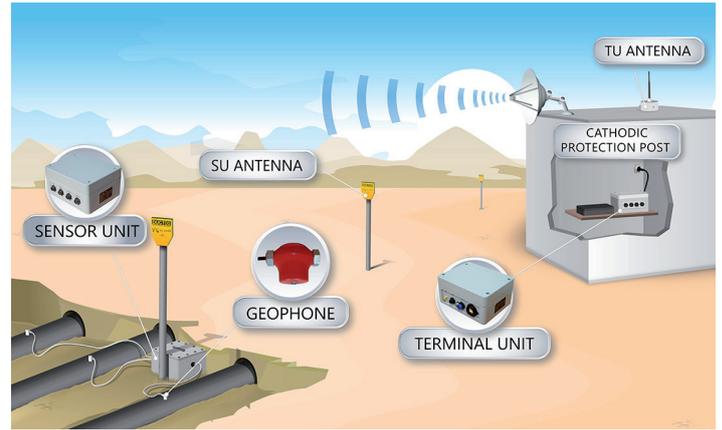
Geophonix uses patented algorithms and unique signal processing to analyze seismic and acoustic signals. These algorithms make it possible to overcome ambiguity, multi-event interference, providing high interception probability.

Geophonix can be installed on single or multiple existing pipes in parallel, and has no single point of failure.

The system serves as maintenance, security and environment failure detection tool.

Early Warning

Geophonix provides valuable early warning, while maintaining maximum sensitivity and minimizing nuisance alarms. This ability improves operability, enables preventive maintenance and maximizes environmental protection.



Technical Specifications

Distance between sensors	150-250 (M)
Location accuracy	<100 (m)
Sensor unit size	160 x 200 x 100 (mm)
Operating temperature	-10°C -+ 55°C
Environmental conditions	IP68
Probability of detection	90%
Security policy	Customer tailored

Features

- Wireless, modular and flexible configuration & communication
- Adjustable security policy implementation
- Continuous 24/7 operation
- Low maintenance
- Passive system

Advanced Detection Capabilities

Geophonix features a vast threat and hazard signature library, covering operational and maintenance malfunctions, accidents and unlawful acts.

Customization

Geophonix's modularity supports varied security policies and requirements. The system enables easy integration to customer's existing legacy systems.

PAP is home to state-of-the-art technologies. We employ the best scientists, engineers and cyber experts, who design and build innovative solutions which are ahead of today's cyber security challenges. The combination of technology and process is a core differentiator of our solution. Rather than simply providing product solutions, we tailor products into customer specific custom processes, which creates a unique solution per customer.