

ECHOLOGICS®

a MUELLER brand

REDUCE OPERATING RISKS

EchoShore®-TX Transmission Pipe Leak Monitoring



MUELLER



REDUCE OPERATING RISKS USING AN ADVANCED MONITORING SYSTEM.

PROTECT YOUR INFRASTRUCTURE.

Leaks in large diameter pipes can pose significant challenges for water supply networks, potentially leading to service interruptions, repair expenses, and reputational concerns.

EchoShore®-TX Transmission Pipe Leak Monitoring offers an advanced solution to help manage operating risks in critical large diameter pipes. Our system provides a comprehensive, user-friendly platform to keep you well-informed and in control.

TYPICAL APPLICATIONS

- Pipes 400mm and greater
- Trunk mains
- Critical pipes with high consequence of failure such as:
 - » Bridges and river crossings
 - » Major roadways and transport links
 - » Mains without redundancy
 - » Industrial supply lines
 - » Airports
 - » Mains with history of rupture or leakage
 - » Construction zone monitoring

HOW IT WORKS:

1 SOLUTION DESIGN & INSTALL

A unique sensor placement is designed for each site, allowing sensors to be installed at access points along the large diameter pipe without service disruption.

2 COLLECT

Sensors gather data from each location multiple times daily and upload to a secure cloud server for processing.

3 ANALYSE

Combining artificial intelligence and dedicated data analysts, critical data is reviewed to identify emerging leaks.

4 NOTIFY

Utilities receive alerts that provide actionable insight via email and the SENTRYX® Water Intelligence platform.



ECHOSHORE[®]-TX TRANSMISSION PIPE LEAK MONITORING

MITIGATE RISK

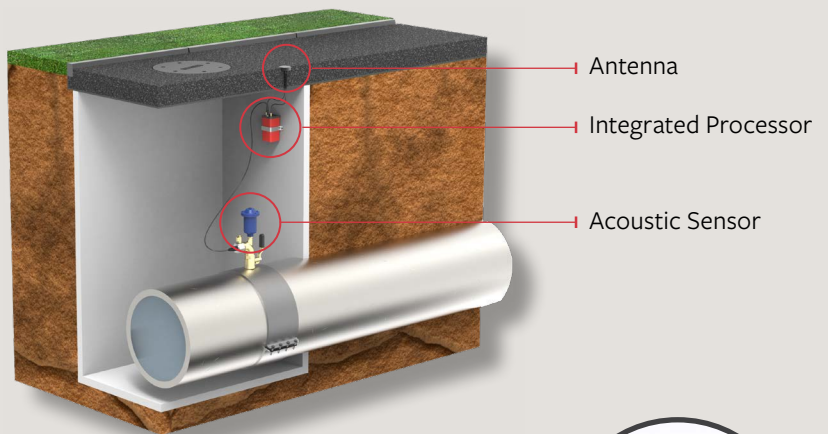
Identify existing and emerging leaks to potentially reduce the likelihood of catastrophic failure.

PROACTIVELY MANAGE CRITICAL INFRASTRUCTURE

Monitor the most critical pipes near busy motorways and airports to support network resiliency.

OPTIMISE OPERATIONS

Use data-driven actionable insight to efficiently deploy field crews onsite.



ACCURATE, NON-INTRUSIVE DATA COLLECTION.

The acoustic hydrophone sensor connects directly to access points along the pipe and can accurately detect leaks in systems with up to 300 psi (20 bar) of pressure. This compact but powerful sensor performs at least 4 collections per day to locate existing and emerging leaks as they form on the network.



RELIABLE COMMUNICATIONS.

This small antenna uses LTE-M1 for two-way communications to ensure dependable connectivity.



LIGHTWEIGHT, LONG LASTING

The electronic module uses a lithium-metal battery to provide 5 years of service life in standard operating mode, allowing for consistent monitoring without frequent battery replacements. This compact processor easily secures to the side of any chamber or enclosure and is IP68 rated to withstand various operating environments.



THE SENTRYX WATER INTELLIGENCE PLATFORM

ALERTS

Get alerts via email, web-based user interface and mobile application to investigate and respond promptly, supporting proactive maintenance.

NETWORK VISUALISATION

View the water network in one place to enable efficient decision-making and leak locating.

SYSTEM HEALTH & DEVICE MANAGEMENT

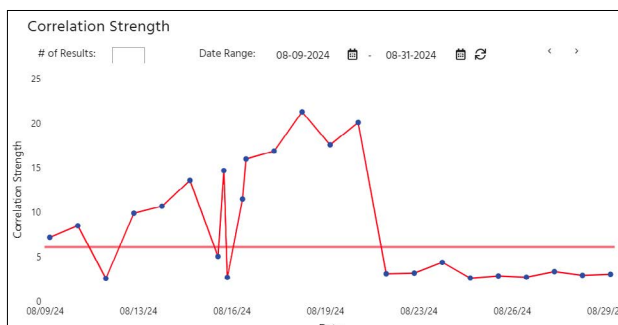
Monitor system health and device status for system insights.

INTEGRATION

Use Sentryx for all for all your network monitoring needs including distribution pipe leak monitoring, as well as pressure monitoring and control. Sentryx can integrate with the utility's system to allow for easy exchange of data.



- Leaks can be detected via acoustic correlation and using single sensor assessment.



- Acoustic data is automatically processed with advanced algorithms to reduce low-likelihood noises and flag persistent noises. This is followed by Analyst Review.
- Data graphs are accessible on the Sentryx user interface

OUR DATA TEAM IS YOUR DATA TEAM

- An experienced Data Analyst reviews persistent noises and alerts utilities of items that require field investigation.
- Get continuous remote support until the resolution of each alert.
- Field investigation feedback flows directly into monitoring of the site for continuous improvement.



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