

TrunkMinder

Automated incipient leak detection, immediate burst alerts and pressure/flow data collection for trunk/bulk water mains

Syrinx operates at the forefront of infrastructure sensor and monitoring technology.

Using an array of sensors, including hydrophone, geophone, flow and pressure, permanently attached to larger trunk/bulk water mains, Syrinix's TrunkMinder technology continuously and automatically monitors pressurised pipelines to detect early stage leaks and mitigate catastrophic failures.

Data is transmitted to dedicated secure servers where conditioning, filtering and interrogation is undertaken automatically using a stochastic model and bespoke algorithms.

Continuous data collection and interrogation enables operators to:

- Detect emergent leaks in the early stages of their development and plan accordingly
- React to immediate burst notifications
- Make informed decisions in the asset planning process from intelligent data rather than relying upon assumptions
- Monitor and detect pressure transients

Syrinx's sophisticated computer model learns the "normal" operating environment within a monitored pipeline, enabling operators to:

- Locate emergent leaks to 1 metre accuracy in the early stages of development and plan accordingly
- Receive immediate burst notifications
- Identify unusual events and then determine if a leak exists
- Screen out distracting "false positives"

- Receive customisable alerts and notifications through a variety of channels including internet and SCADA
- React in a planned proactive manner avoiding catastrophic failures, supply interruptions and expensive damage claims

Deploying TrunkMinder enables water companies to:

- Enhance customer satisfaction through avoided bursts, supply re-zoning, pressure drops and discolouration
- Mitigate costly insurance claims and penalties from regulatory agencies
- Extend asset life with consequent financial benefits
- Optimise network operations through enhanced understanding of real-time conditions
- Move towards "smart" networks through improved data capture, interrogation, analysis and reporting
- Provide the data to support legal and regulatory submissions and obligations
- Realise cash savings through avoidance of the extraordinary costs that are incurred with emergency unplanned work, plus the avoidance of repetitive expenditure associated with periodic inspections

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Intelligent Pipeline Monitoring
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