

RISING MAIN PERFORMANCE MONITORING AND BURST ALERTING

WASTEWATER / RECYCLING NETWORKS



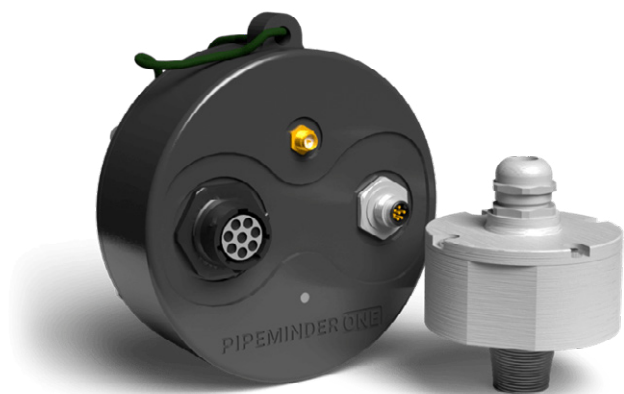
Syrinix
A Badger Meter® Brand

Today, when many utilities are faced with ageing infrastructure and restricted budgets,

a burst on a wastewater rising main can have significant consequences for both the utility and the environment. And in more remote areas, bursts can go undetected, resulting in substantial pollution events with heavy costs – both financial and environmental. High-resolution data and precision timing can save time and money and minimize environmental impacts.

PATENTED HARDWARE

Automated burst alerts	Automated burst notifications reduce response times and save money.
External sensor designed to minimise clogging/ ragging	Specifically designed for challenging wastewater environments, data continues to be provided without reduction due to clogging / ragging.
Always-on 128Hz sampling	High-resolution insights allow users to understand asset performance in detail.
High Delivery Pressure Alerts	Provides early notification of blocked wastewater pipelines.
Low Delivery Pressure Alerts	Provides early indication of worn / failing non-return valves and failing pumps.
High Static Head Alerts	Indicates possible trapped air impacting performance / efficiency.
Low Static Head Alerts	Provides early indication of failing non-return valve.



PIPEMINDER ONE

EXTERNAL SENSOR

PROPRIETARY PLATFORM

Powerful highly intuitive "RADAR" user interface

See what you want and need in detail without lengthy training / roll-out programs.

Third-party data import and display

Easily import third-party data into RADAR for a "single screen view" including pressure, flow and SCADA pump / valve status changes.

Configurable automated filtering and alerts

Avoid data-overload and focus easily on what you need to with customisable alerts to highlight when important changes occur.

Secure cloud-based platform

See what you need to see from wherever you need to see it, auto-scaled for your device.

Customer API and simple data integration / export tools

Easily integrate your network data with simple to use tools and APIs for importing and exporting data sets and alarms.

Advanced GIS and Google Maps integration

Including street and satellite views and GIS overlay options to see your network as it actually is.

DATA-LED INSIGHT ON YOUR NETWORK

"This new level of monitoring has allowed Anglian Water to deploy strategies aimed at extending the life of the rising main (such as soft starts on pumps and improved air valve maintenance) of which early results have suggested it will allow for deferral of capital investment by extending asset life."

Rebecca Harrison

Optimisation Strategy Manager

Anglian Water

For the Operator



Save time



Save money



Focus on what you want / need to see



Alerted to performance issues

For the Utility



Provide great service



Protect the environment

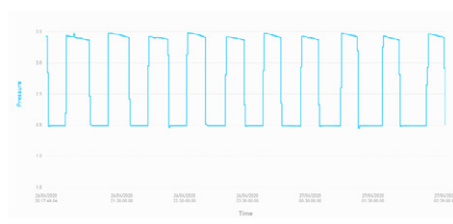
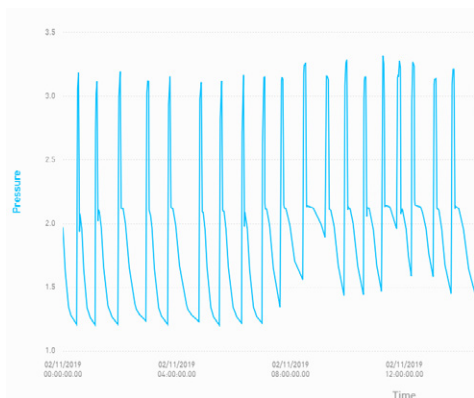
CASE STUDY **Anglian Water, UK**

Building on the success of an existing supply water network program with Syrinix, Anglian Water was keen to exploit the data generated by the Syrinix **PIPEMINDER-ONE** monitors to improve operational performance and efficiency throughout its sewerage system. Initially, this involved a manual process, using burst alert patterns to analyse inefficiencies or monitoring sites with known issues.

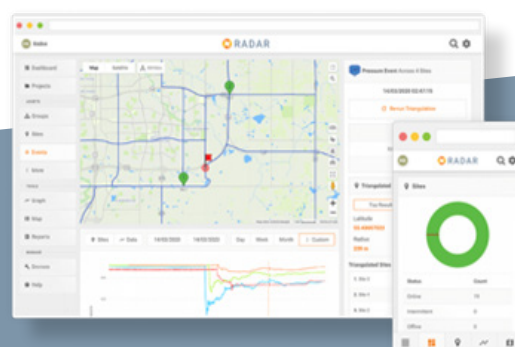
That analysis revealed a range of performance issues requiring attention, from worn pump impellers

to fouled valves to control issues. This complements the existing telemetry system, providing a clear view of how well assets are performing. To date, Anglian Water has identified more than 50 issues that affect performance and efficiency.

In addition to improving operational efficiency, the monitoring program has been instrumental in identifying opportunities for financial savings. Rectifying the issues identified by the performance monitoring has already generated more than £30,000 / \$40,400 per year in energy savings alone, based on completing 30 of the planned 50 mitigations. Add to this the reduced costs associated with investigating bursts. In fact, the utility anticipates a payback to the monitoring and analysis investment within just one year.



Pressure data before (above) and after (below) unblocking of the non-return valves.



About Syrinix

Syrinix is an award-winning global market leader in developing intelligent pipeline monitoring technologies, including the PIPEMINDER-ONE series for water and wastewater monitoring, the RADAR cloud-based network analysis platform, and Syrinix Intelligence analysis and consultancy services. Syrinix helps cost-conscious utilities move network management from reactive to proactive, detecting and mitigating network issues before they become failures.

www.syrinix.com