

ECHOLOGICS®

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MAKE INFORMED DECISIONS ABOUT YOUR BURIED ASSETS

With ePulse®
condition assessment
service

Product Brochure



DETECT



MONITOR



CONTROL



REPAIR

MUELLER

ECHOLOGICS®

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PROACTIVE ASSET MANAGEMENT DOESN'T HAVE TO BE A PIPE DREAM

Get Ahead of Ageing Infrastructure

In many parts of the world, water networks are more than 150 years old. Ignoring older pipes is not an option and the cost of replacing them is not feasible for most utilities. However, age is not the sole or even the primary factor in determining which pipes need to be replaced.

Optimise Limited Budgets

Replacing pipes is not an insignificant investment. If your utility knew which pipes needed to be rehabilitated, which pipes needed to be replaced, and which pipes just need to be monitored – how would you reallocate your budget? And how would your workforce reallocate their time?

Get Data to Help You Think Short-Term and Long-Term

When leaks form or pipes burst, operational teams may need to be deployed for urgent or emergency repair work. However, when utilities understand the condition of their pipes, they can better allocate resources and budget where it's needed.

DIG DEEPER – WITHOUT DIGGING

Get accurate, actionable data on your pipes with ePulse® condition assessment service, our non-invasive acoustic condition assessment solution. ePulse rates the condition of pipe across two levels of detail: for segments of 60-200m, ideal for longer pipe spans and covering larger parts of a utility's network, and detailed for sub-segment pipe section of 10-30m for extra granularity. Do you need to know the condition of your whole water pipeline network - or just the pipeline in critical areas, such as around hospitals and busy roads? ePulse Optimise will retrieve that buried information, without causing service disruptions.

BENEFITS OF ePULSE® CONDITION ASSESSMENT SERVICE

Get the Full Picture

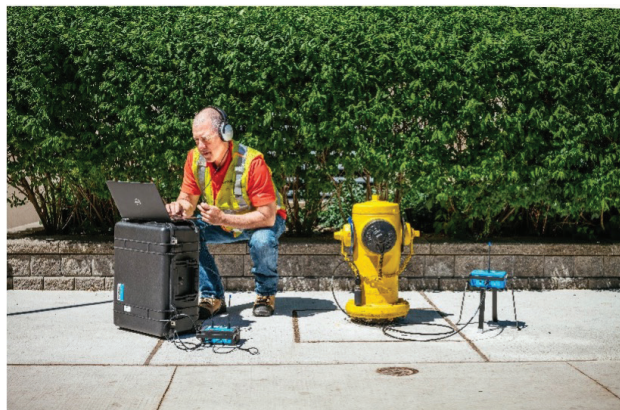
Assessing the quality of your pipes is essential, but even “good” pipes can leak. ePulse provides simultaneous leak detection – so that you can make truly informed decisions.

Reduce Risk

Collecting data without destructive testing reduces network risk. Furthermore, gathering the data without entering the water column allows you to protect water quality.

Support Sustainable Practices

How often does your utility dig up good-quality, usable pipe? Take the guesswork out of pipe rehabilitation and replacement, so you can dig up pipes when they need to be replaced, not before.



ACTIONABLE DATA

Pipe Condition rating

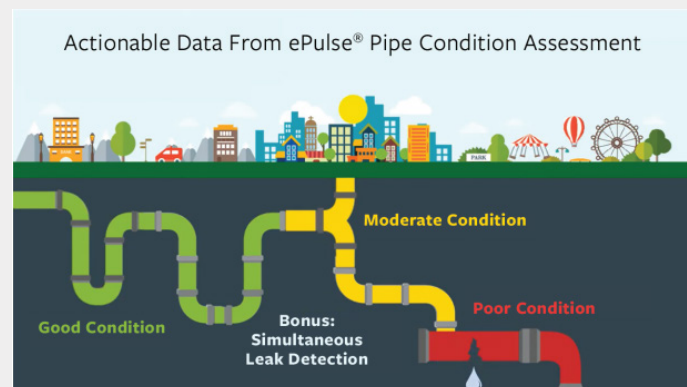
ePulse condition assessment service uses field data and computer algorithms to calculate the average remaining pipe wall thickness across sections of pipe as short as 10 metres – and the pipe condition is then categorised as Good, Moderate, or Poor. These ratings are determined based on the percentage difference from normal degradation rates, so you know exactly where your problem areas are, and which segments need what kind of attention.

Leak Information

The simultaneous leak detection identifies and pinpoints any leaks in the inspected area at the time of the survey, so you know how many leaks there are and where they exist.

Why It Matters

Knowing the actual condition of your pipe allows you to manage assets proactively, optimise workforce efficiencies, and invest where it's needed.

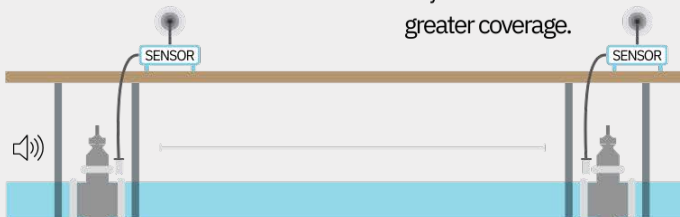


HOW ePULSE CONDITION ASSESSMENT SERVICE WORKS

OPTION 1: Standard Resolution Survey Deployment

80-244 m (200 - 800 ft) spacing.

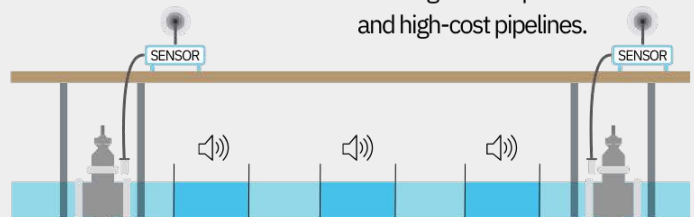
Standard survey resolution for greater coverage.



OPTION 2: Detailed Resolution Survey Deployment

10-30 m (30 - 90 ft) spacing.

Greater resolution for high consequence and high-cost pipelines.



Operational teams attach acoustic sensors to existing access points (such as fire hydrants or valves) or directly to the pipe. Sound waves are introduced through the pipe, and the acoustic sensors capture the time it takes for the sound wave to travel between the two sensors.

Echologics' engineers use the captured data and proven algorithms to calculate the remaining wall thickness of the inspected pipe sections and segments.



LeakFinder-ST™ acoustic leak correlator

LEARN MORE

For more information or to get in touch, please scan the QR code.



**For more information about us, or to view our full line of products, please visit www.echologics.com or email International Customer Service at:
Email: International@muellerwp.com**

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