



Real-time



24 hours
a day



7 days a
week



365 days
a year

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in-pipe
Leak Detection & TPI

A revolutionary solution for managing water networks



A Sensing Cable is installed INSIDE the pipeline providing unmatched sensitivity to events



Leaks
& Bursts



Asset
Security



Passive
Sensing



Approved
& Certified



Instant Alerts
for...



Leaks
& Bursts



Intruders
(TPI)

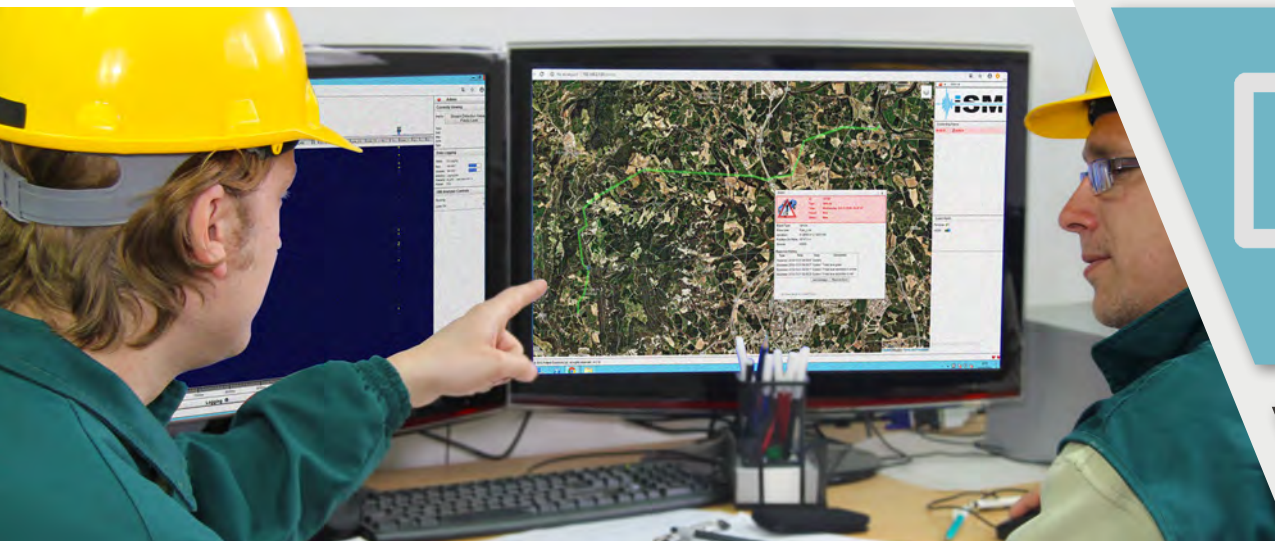


Digging
Activity



Vehicle
Movements

and iSM is suitable for use in any pipe size or material



All alerts can be sent directly to any device that is connected to the internet, specifying the time, type of alert and the exact location displayed on a map.

iSM 'in-pipe' leak detection



With iSM, it is possible to detect any kind of leakage:

- ▶ Identifies existing leaks, once deployed
- ▶ Detects new leaks - facilitating a 'fix before fail' strategy
- ▶ Identifies existing service connections
- ▶ Differentiates service connections from leaks
- ▶ Potential to detect unauthorised connections
- ▶ Real-time data of active service connections

iSM is suitable for use in any pipe size or material and provides real-time event alerts with accurate location data

Fix
BEFORE **FAIL**

Why iSM?

- ▶ It provides 24/7 365 real-time alerts for Leaks, Bursts and Third-Party Intrusion
- ▶ The Sensing Cable only requires power to one end and is totally passive along its route (up to 40km/25 miles)
- ▶ Because the sensing is performed inside the pipe it gives unparalleled leak detection sensitivity and accuracy
- ▶ It can precisely locate leaks down to an accuracy of several meters
- ▶ Alarms can be sent instantly to any device connected to the internet
- ▶ Detecting even the smallest of leaks allows a fix-before-fail strategy
- ▶ Saves time and resources trying to locate known leaks; eradicating dry-holing
- ▶ It optionally offers Third-Party Intrusion detection - no requirement for local power
- ▶ Protects your assets against malicious attack and/or theft

(TPi) Third-Party Intrusion Detection with iSM TPi Zone™



Optionally, the iSM Sensor Cable can exit the pipeline and surround a critical asset, creating a TPi Zone™, to offer unparalleled security, with no local power requirement.

In fact, it is possible for the iSM Sensor Cable to exit and re-enter the pipeline multiple times to create as many TPi Zones™ as required.

TPi Zones™ could include:

- ▶ Remote water treatment works
- ▶ Service reservoirs
- ▶ Private access roads
- ▶ Water towers
- ▶ Pumping stations

TPi Zones™ protect your assets from malicious attack and/or theft, by detecting people or vehicle movements and digging activities near to the pipeline or asset

CRALEY Group's Integrated Solutions

At CRALEY Group, our message is 'Innovation in SMART Infrastructure' and our unique set of products are designed to provide significant advances on current techniques to provide better, faster and more cost-effective solutions.

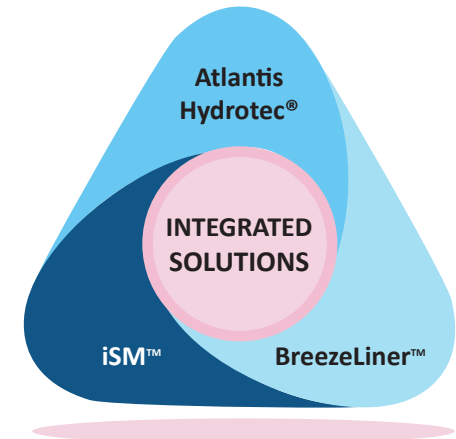
The whole suite of solutions have been designed to complement and integrate seamlessly with each other, creating a unique set of solutions specifically designed for trench-less pipeline management and communications; we call this integration our Internet-of-Pipes Platform™.

Atlantis Hydrotec® is a 'pipe-in-a-pipe' solution in which a special purpose, small-bore 'Messenger Pipe' is inserted into existing water pipelines or similar for the purposes of installing ultra-fast fibre optic communication cables.

This simple but effective solution overcomes the difficulties associated with more conventional fibre broadband (FTTx) delivery solutions: specifically the problems relating to digging up roads and driveways to the building, costs of excavation and time to install the fibre.

BreezeLiner™ enables the fast and cost effective re-lining of waste-water ducts, at the same time installing fibre cable into the infrastructure.

The BreezeLiner™ solution uses a new and patented technique for pipe re-lining: LIPP™ (Laminate in Place Polymer), and offers a radical, lower cost, quicker to install and greener alternative to traditional Cured in Place Polymer (CIPP) systems using chemical resins with hot water, steam or UV curing.



Atlantis
HYDROTEC

iSM

BreezeLiner

