



Water Pipe Network Monitoring & Leak Detection



Acoustic – Active Leakage Control



Continuous Pipe Monitoring by Correlating Sensors



Smartphone App. - Advanced Pinpoint Correlation & Survey



High Pinpoint Accuracy with Minimal False Alarms



Cloud Based Solution



Pipe Condition Assessment



AQS-SYS

Automated Water Monitoring
System and Leak Detection

Cloud Based Solution

Big Data Analysis and Fast Implementation.

iQuarius™

Smartphone App. Leak
Detection Solution for Survey,
Correlation and Pinpoint





About Us

Aquarius Spectrum Ltd. is a leading provider of advanced leak detection solutions for water loss reduction, burst prevention, pipe condition assessment, optimizing maintenance and operational costs.

Our products are currently monitoring more than 2,000km of water pipes around the world helping major water utilities reduce their NRW and M&O cost by using fixed and mobile acoustic sensors.

We offer a wide range of innovative solutions for monitoring any type of water pipe materials and diameters. The main two are:

AQS-SYS

Continuous monitoring of water pipe networks using correlating sensors & cloud based software, automatically providing accurate GIS presentation of leaks and pipe condition. AQS-SYS asset management capabilities enables decision support and optimized budget planning of infrastructure maintenance.

iQuarius™

Easy-to-use smartphone based leak detection solution using mobile sensors enabling to pinpoint leaks by listening, surveying and performing correlation. The mobile solution includes BackOffice supervision and data analysis.

Aquarius provides smart cities a real IoT solution.

The Aquarius-Spectrum leak detection solution differs from conventional leak detection by noise logging in both design and methodology.

Aquarius-Spectrum collects daily acoustic samples from its sensors that are monitoring the water distribution network and correlates them. This unique multi spectral correlation provides reliable leak detection, accurate leak location and an estimation of the leak size for all the types of pipe materials (including PE). Reaching such high quality results is enabled by collecting and analyzing large acoustic samples transmitted over a standard 3G cellular network.

In comparison, leak detection by noise systems use deploying proprietary RF-based networks. Leak location is performed on-demand by sending a field team that uses additional temporary correlating sensors. Noise logging detection is affected by background noise and has limited performance over larger distances.

Aquarius Spectrum also provides pipe condition assessment, based on continuous monitoring of leak development. The assessment is based on unique analytical algorithms.

