

RBS wave LeakControl

A seamless system



Seamless network monitoring

Keeping an eye on leaks

Recognising leaks in water supply networks early on has many positive effects – a more hygienic network, ecological benefits, and above all cost savings. This is why it's important for municipalities and water utilities to install efficient control mechanisms to locate leaks as quickly as possible and reduce losses to a minimum.

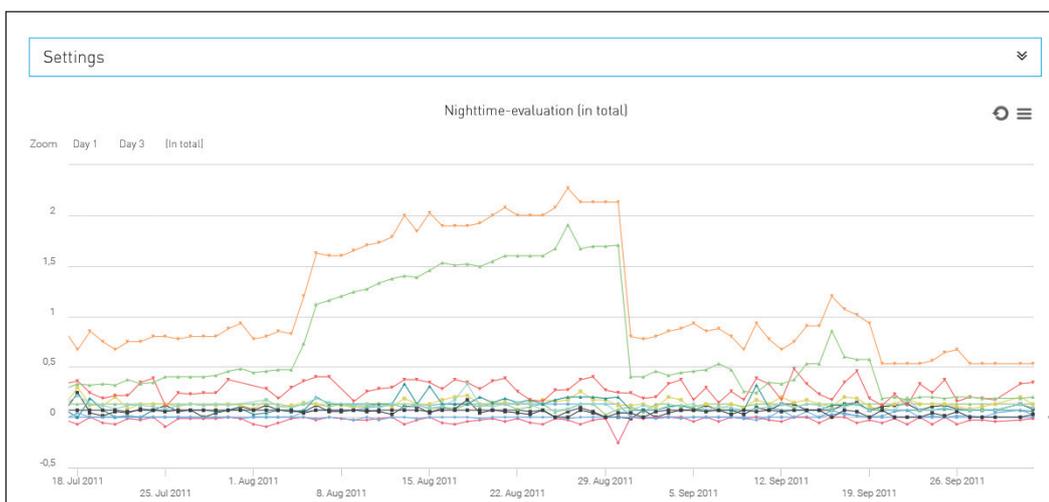
RBS wave GmbH uses innovative technologies to offer you optimised, fully automatic monitoring for your supply network. The system recognizes flow pattern changes that indicate pipe damage, allowing you to react immediately. Long, costly lead times for leaks and extensive searches for broken pipes are finally a thing of the past.

The monitoring system is installed by RBS wave experts and handed over ready for operation. Training for your employees and reliable support are also included in our comprehensive service package, allowing you to achieve maximum effect with minimal effort.

Customised solutions for your needs

Due to our many years of experience with the issue of network management, RBS wave offers a total concept for network monitoring, tailored to your requirements. It includes the components measurement technology, measurement location positioning, measurement data analysis, and software-supported leak perimeter determination.

Correctly arranging measurement locations in your supply system is the basis for efficient monitoring. The LeakPositioner software uses a hydraulic computing network model to position flow measurement locations in the optimal positions in complex urban networks.



LeakControl shows measurement points with increased flow (leakage).



Illustration of sensor assembly

Sensors monitor night time flows relevant for leak recognition fully automatically, then send the measurement data to a web server over cell phone networks. Your data is password protected and available over the internet.

Our modern and convenient analytic software analyses data, then represents it graphically to allow you to recognise even the smallest leaks.

Alternatively, it can also transfer the data through your infrastructure (e.g. telecommunication cable) to a control room. In addition, available measurement locations can be integrated into the overall monitoring concept. It's also easy to set up 24-hour monitoring.

Effective and simple to use

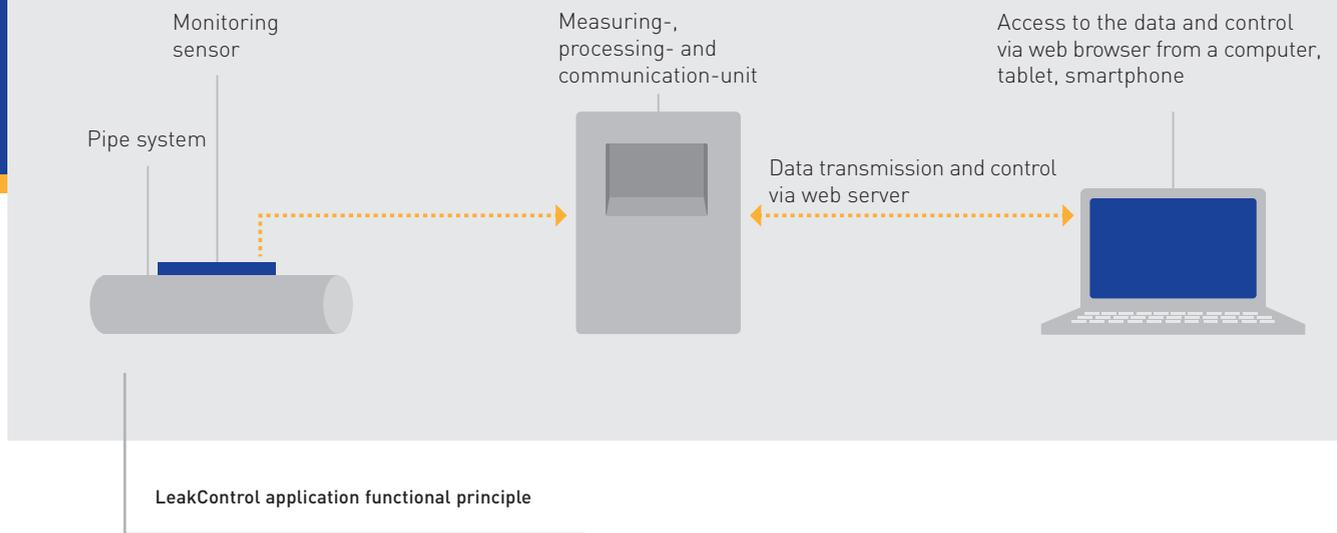
A leak can cause different changes in the flow pattern at different measurement locations. LeakControl not only shows the actual flow pattern changes, but also evaluates these and generates clear daily value curves. These generated graphics (hydrographs) can be used to immediately recognise even the smallest leaks, then evaluate them based on the quantity of water lost and locate them within a defined area of the network. The leak search can then be limited to the indicated network area, significantly lowering effort for the actual location process. LeakControl greatly reduces lead times for leaks, making the repair and recognition of even smaller leaks an economical choice.

Bidirectional communication between the web server and measurement unit on site allows you to control the system remotely from your office. New measurement times for each individual measurement device can be determined without travelling to the location in question. In addition, this monitoring can be used to recognise even external damage (power supply or sensor cable cut) through the web server using a smartphone or tablet, so that short-term measures can be initiated.

Inexpensive installation

The LeakControl ultrasonic sensors can be installed on any pipe easily and in a short time – no matter their diameter or material. Sensors can be installed in available shafts or underground.

www.youtube.com – EnBW LeakControl



Water loss monitoring 4.0 – networking available information



RBS wave's LeakFinder software is the right tool for mapping the sizes and geographic perimeters of leaks even more efficiently. Network conditions are continuously analysed, based on a calibrated hydraulic computing network model. If an event in the network (leak, construction measures ...) causes a change in flow patterns, LeakControl measures this data and analyses it using a big data approach, then alarms the user. The cloud-based software displays the associated location and calculated

quantity of water lost. The geographic location of the leak is shown clearly using Google Earth, to make advance location even simpler. This reduces the effort to pinpoint leaks with the correlator to a minimum.

LeakControl network monitoring – functional principle

- > Continuous monitoring of the water supply network, allowing immediate recognition of leaks
- > Extensive analytic options, right from your office
- > Quick allocation of a leak to specific area of the network (advance location)
- > Sensors simple to install without interrupting water supply
- > Absolutely maintenance-free system
- > Simple, user-friendly software
- > Secure access to your data over the internet – anywhere, and any time
- > Secure, inexpensive data transmission through mobile networks
- > Inexpensive energy supply through connection to the street lighting grid
- > Flexible solutions for data
- > Online remote monitoring available

Our spectrum of services

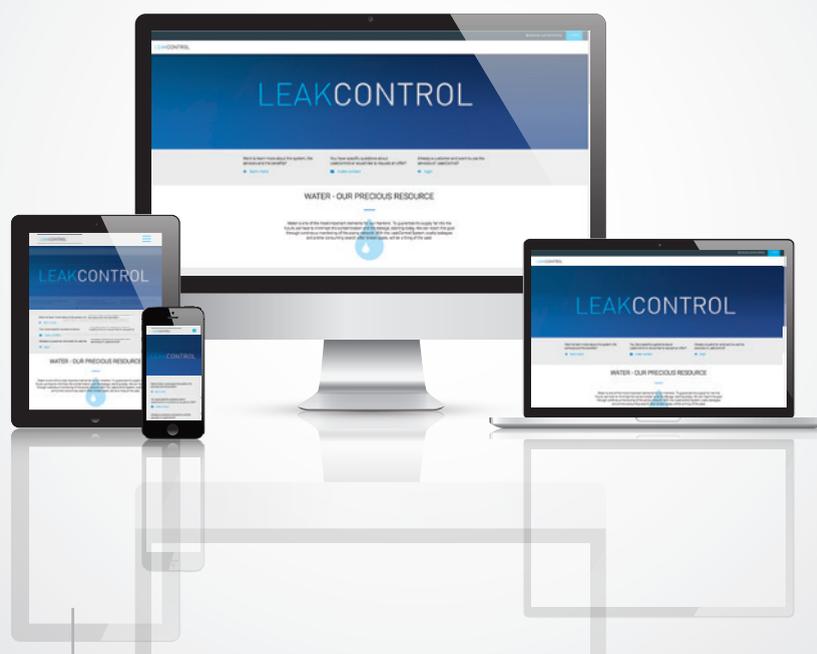
- › Competent advising in selecting measuring points, due to our comprehensive understanding of network hydraulics
- › The most modern available measurement and transmission technology, ensuring fast, automated leak warnings
- › User-friendly software for recording, diagnosing, and evaluating your entire water supply network
- › Complete assembly of all technology, resulting in handover of a fully operational complete system
- › Constant updates and new developments for our web server software
- › In-house service team is available

Your benefits

- › Comprehensive knowledge through long-term practical experience
- › Early leak recognition and assessment as the foundation for decision-making and follow-up
- › Customized concepts
- › Cost-optimized solutions
- › Low operating costs

Effective in the short-term, sustainable in the long-term

Your network knowledge and our know-how are the key factors for developing an economical monitoring concept. Limited investment and low operating costs are more than justified by the immediate benefits in advance location and loss minimisation. As an added bonus, LeakControl sheds light on the unknown territory of your pipe network. Because of that: You too can benefit from the advantages of this forward-thinking water loss monitoring system!



The RBS wave LeakControl website (www.leakcontrol.net) is designed as a responsive website, and is optimised for all devices.

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