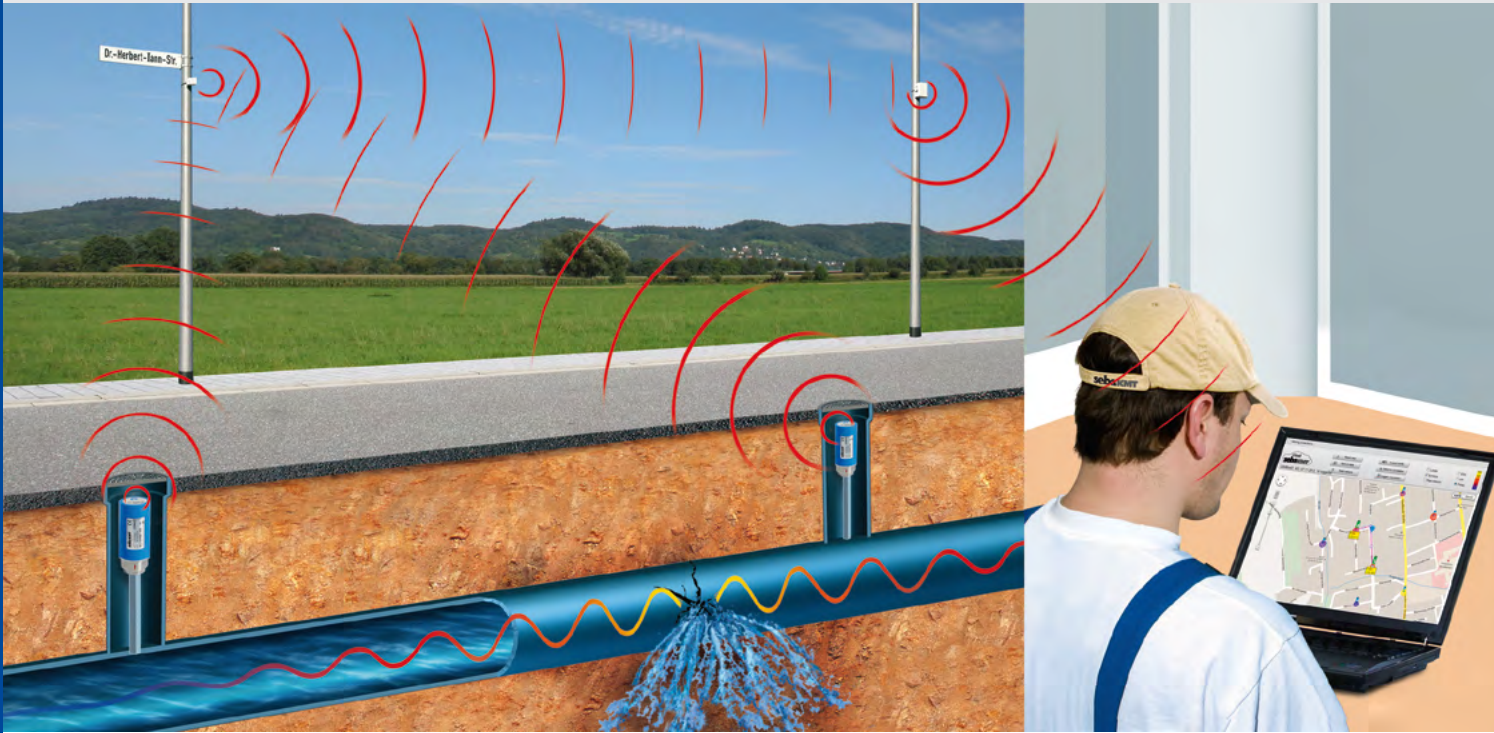


Automatic leak location – correlating noise logger network



Sealog N-3 Network

- Daily data transmission
- No time-consuming patrol of individual loggers
- Remote configuration
- Most simple installation process
- Cost-effective data transmission
- Correlation function

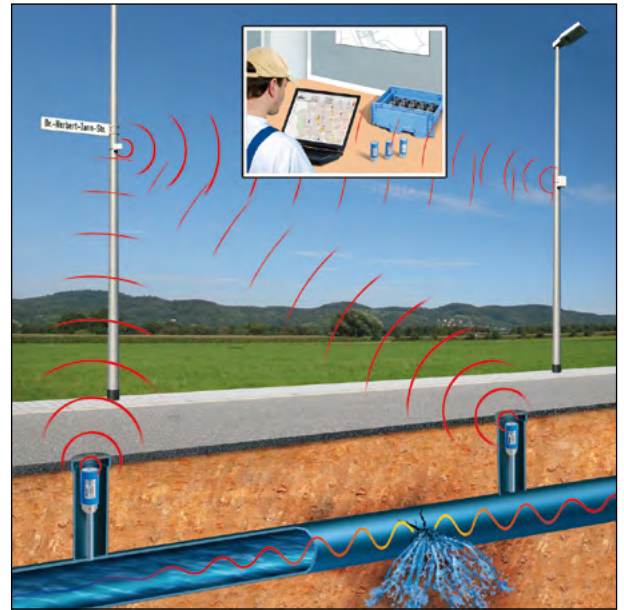
Sealog N-3 – correlating network

Automatic leak location

Time is most important when detecting and locating leaks. The latest monitoring systems, such as the Sealog N-3 noise logger network, are therefore designed to identify existing leaks, to detect new leaks as fast as possible, and thus minimise losses in the network in the long term.

Always up to date

The Sealog N-3 network provides you with the latest measured data on a day-to-day basis. Automatic data transmission saves you the time consuming task of patrolling each logger. It also offers a wide range of analyses, such as the ESA value or the history function, so that you can track the condition of the network over a long period. This means critical sections of the network are easy to identify and there won't be any nasty surprises.



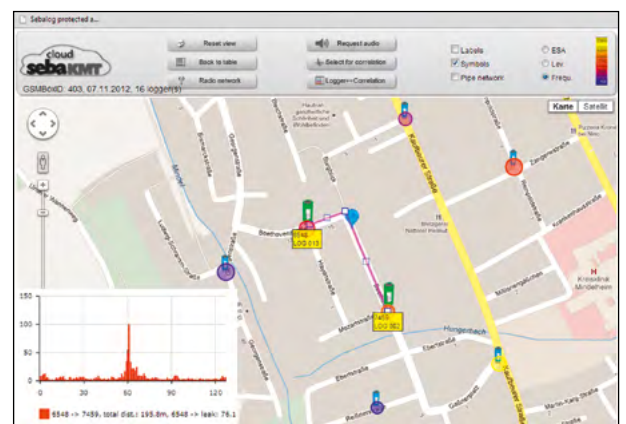
The loggers, repeaters and GSM control centre communicate via wireless. The data is transferred to the FTP server via GPRS.

The next step – network correlation

When the loggers detect a leak, you can query the automatically recorded noise data from the affected measuring points. Depending on the configuration of the network, noise data are available for transmission either on the same day or the day after. You can listen to the recorded noises in order to tell whether the alarm message from the logger was caused by genuine leak noise or from disturbing ambient noise.

But that's not all: you can correlate the noise data from several loggers to pinpoint where the noise is coming from.

Automatic daily synchronisation of the entire logger network ensures that the correlations are highly accurate.



Transferred noise data can be correlated in the SebaCloud™. The results are displayed as a correlation diagram and in the overview map.

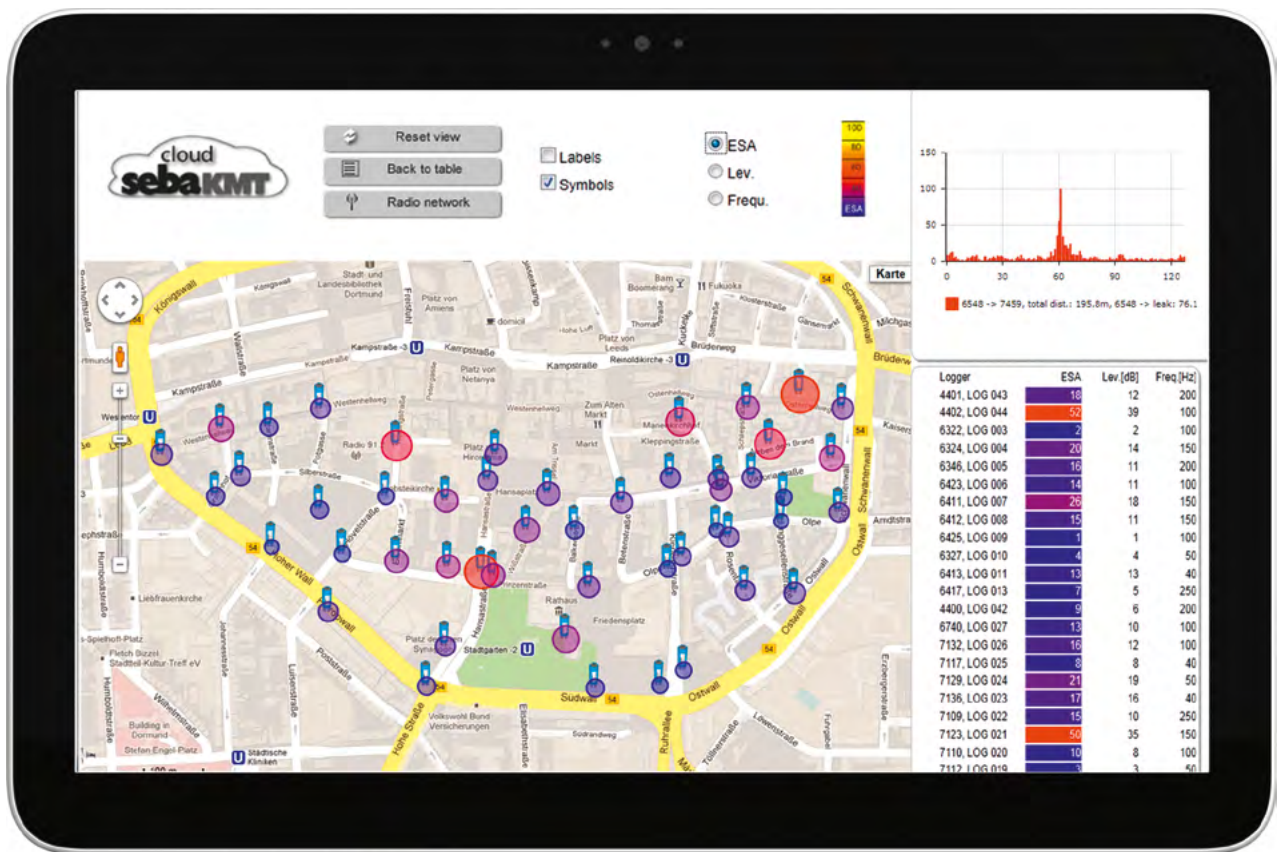


Fig. 1: Standard view of a network

21st century leak location

The SebaCloud™

You can carry out nearly all functions involving the Sebalog N-3 network using a versatile, state-of-the-art application called the SebaCloud™.

In the Cloud, you always have an overview of your entire network, can view current and historical measured data and track how the readings change over long periods. Furthermore you can save pipe network data, correlate measurement results and use network diagnostic functions.

The SebaCloud™ is compatible with all operating systems and devices.

Efficient data transmission

The operating costs for data transmission for automated systems must not be ignored. That's why the Sebalog N-3 network offers you the option of transferring measured data from up to 50 noise loggers in a single data transmission.

This means SebaKMT leads the field when it comes to the efficient transfer of measured data from loggers.

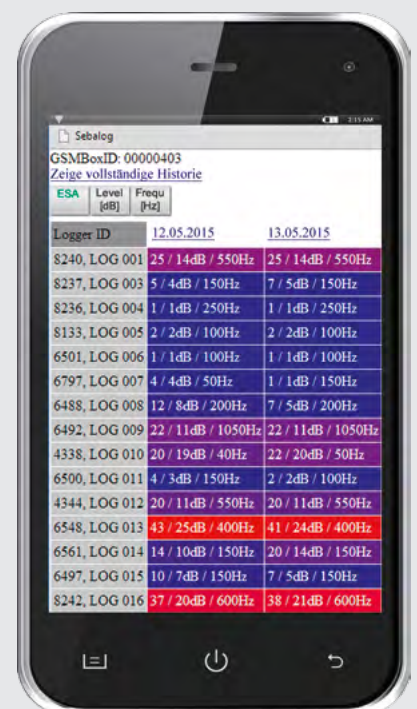


Fig. 3: Chart of historical data

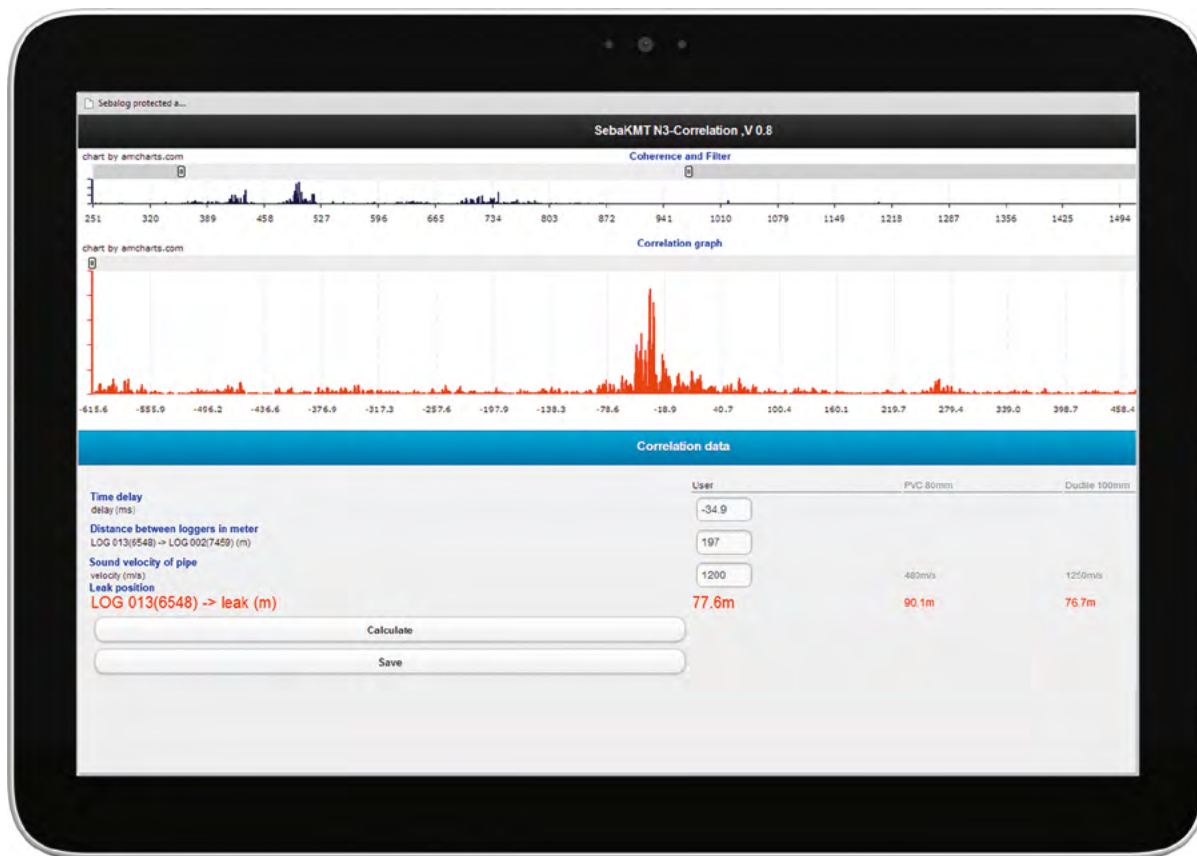


Fig. 2: Individual correlation

This is how simply the network operates

The noise level loggers record the minimum noise level and frequencies within a pipe section over a defined period and simultaneously save a noise file. Once a day, they automatically transmit their data wirelessly to a GSM centre, which in turn transmits the data to a server at the main control centre.

An individually correlated Sebalog N-3 network consists of up to 50 noise loggers, a variable number of repeaters and a GSM transmitter unit.

To use the network in large areas, repeaters are used to significantly increase the wireless range between the loggers and the GSM control centre. A cascade effect means that several kilometres can easily be bridged between the loggers and the GSM control centre.

Once the data is on the server, users can conveniently analyse it in the SebaCloud™ or download the data into the PC software for further analyses or to build a data base.

Flexible configuration

The data transfer between the individual devices takes place automatically according to a defined time schedule. However, you can also set numerous parameters, such as the time of measurement, according to your own requirements. Modifications are easily made once the system has been installed. Remote configuration of the network is just one of the many options that SebaKMT offers.



The network



Repeater



GSM box



N-3 logger



SebaCloud™
Web software

Sebalog N-3 Network

Technical data

Number of loggers per GSM box	Max. 50
Number of SIM cards for an inter-network connection	1
Typical service life of a GSM box	> 3 years under standard conditions
Typical service life of other components	> 5 years under standard conditions
Operating temperature	-20 to +60 °C
Communication	Bi-directional wireless transmission

Scope of delivery

- Sebalog N-3 noise level logger
- Repeater 3
- GSM box 3
- Seba Data View PC Software
- Installation material
- Commander 3 (optional)

Note:

The laptops, tablets and smartphone shown in the brochure are not supplied.



For more information, go to www.sebakmt.com/n3-network

Surfing with your smartphone

Just scan the QR code.

