

Network-compatible noise level
and frequency loggers for
acoustic zone monitoring

Sebalog N-3



Benefits

- ▶ Flexible use – temporary, permanent or in the network
- ▶ Wireless communication between all components
- ▶ Audio data recorded directly in the logger
- ▶ “Commander” with colour display, USB, huge memory capacity, and much more
- ▶ Complete group/logger management without a PC
- ▶ History function
- ▶ Extended wireless range using repeater
- ▶ TNC version with external antenna available



sebaKMT

Pipe network monitoring efficient and economical

Leak detection – seeing and hearing

► See leaks – thanks to frequency analysis

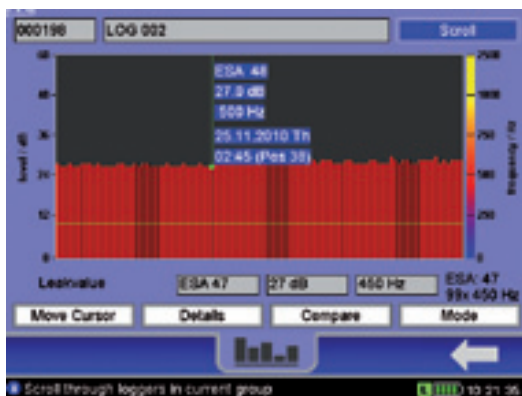
Sebalog N-3 loggers measure the noise level (db) and the frequency of a leak simultaneously. High noise levels are an indication for a leak, but only the combined analysis of noise level and frequency can help identify the approximate distance of the leak in relation to the deployed noise loggers. The user receives visual assistance from a colour scale of blue (low frequency) to yellow (high frequency).

ID	Comment	Time / Date	ESA (Level, Hz)
000177	LOG 001	13:52 03.02.2011	4 3 100
000142	LOG 002	13:48 03.02.2011	1 1 100
000179	LOG 003	15:13 03.02.2011	3 3 50
000185	LOG 004	15:05 03.02.2011	2 2 50
000113	LOG 005	14:22 03.02.2011	31 17 600 21
000176	LOG 006	15:13 03.02.2011	1 1 100
000186	LOG 007	15:05 03.02.2011	1 1 50

In the logger lists, any unusual measurement results are highlighted by colour

► Hear leaks – this is what they sound like

Audio data recorded by the loggers can be played using the Commander-3 evaluating unit or the PC software. This helps the user to analyse the data and differentiate interfering noise from real leak noise.



The display of measurement data provides detailed information about noise level and frequency, as well as the date and time

► Real-time measurement – completely up to date

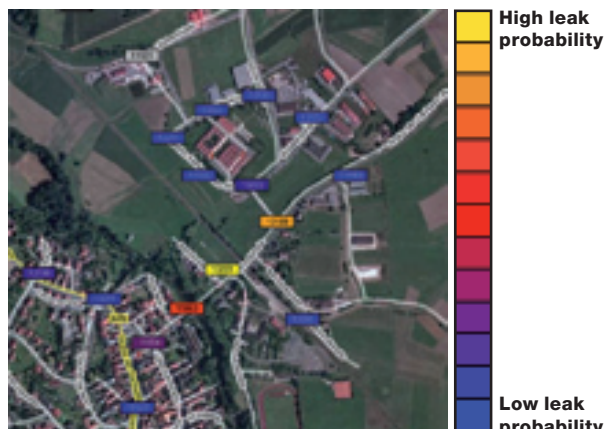
Sebalog N-3 loggers can transmit noise level, frequency and audio data in real-time to a reading unit, such as Commander-3. In this way the readings can be confirmed directly on the spot without any additional measuring equipment.

► Professional evaluation – the ESA value

ESA stands for “Enhanced Spectrum Analysis” and means that noise level and frequency are combined in one reading. This results in a completely new view of the measured data, which makes the leak probability and position visible in relation to other loggers.



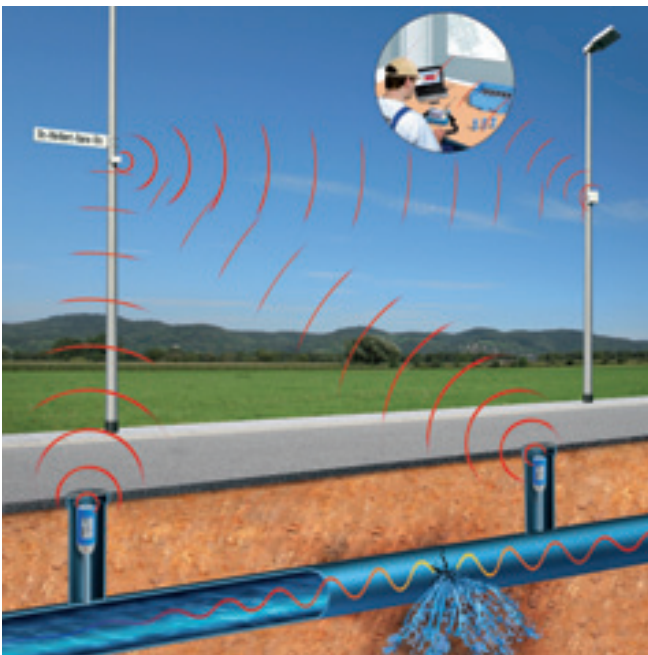
Evaluating measurement data according to noise level



Evaluating measurement data according to noise level and frequency in the ESA mode

Sebalog N-3

The network mode – all measurement data available anytime!



Permanent pipe network monitoring is becoming an integral part of drinking water supply.

In addition to proven technology such as Lift&Shift or patrol, the Sebalog N-3 system is able to transmit measurement data by GSM directly to the control centre using a newly developed network mode.

The combination of remote data transmission and professional user software enables the user to search for the leak exactly in the places where there is a high probability of a leak. This effective pre-location method saves valuable time and money.



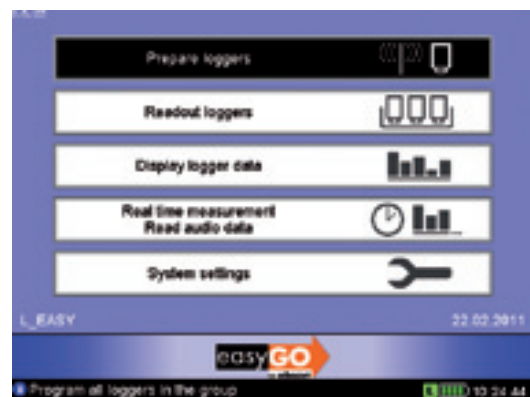
Repeater 3 on a lamppost



LOG GSM 3 on a lamppost

► Efficient work – easy to operate

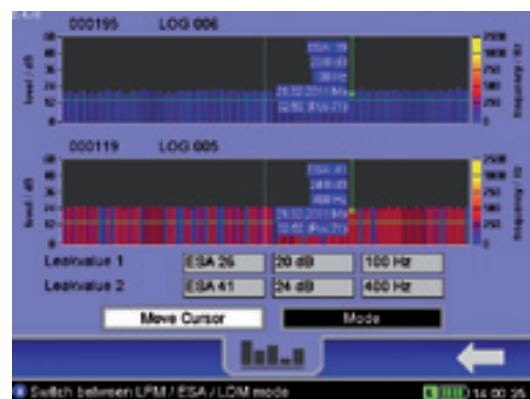
SebaKMT has pursued the philosophy of “EasyGo” for years, which enables the user to easily operate all the equipment, make all the settings and evaluate all the data.



For maximum user-friendliness, the “Easy Mode” menu is reduced to a few basic points

► What was yesterday?

Thanks to the history administration in Commander-3 and PC software, data already recorded can be retrieved anytime. Have a look in the history for a direct comparison of two loggers or two measurement readings from one logger



In no time at all measurement results from different loggers or different measurements can be compared

We will be pleased to inform you!

All the benefits of the Sebalog N-3 system at a glance:

Sebalog N-3 Logger

- ▶ Bi-directional radio
- ▶ Audio data storage
- ▶ Real-time measurements
- ▶ Low in height and diameter
- ▶ Measurements saved for up to 100 days
- ▶ Extra strong magnet for secure hold
- ▶ Switches on/off by simply turning it over
- ▶ Extended radio range by repeater 3
- ▶ TNC version with external antenna available
- ▶ Flat-fitting angle for especially small shafts
- ▶ Highly-sensitive measurements due to wide dynamic response range


The network

- ▶ Remote programming of loggers
- ▶ Automatic time synchronisation
- ▶ User-friendly operating software
- ▶ Up to 50 loggers connected to one GSM box
- ▶ Increased wireless range by repeater
- ▶ Automatic data transmission to control centre
- ▶ Simple installation with device coupling
- ▶ Repeaters can be cascaded



Instruments in the Sebalog N-3 system

Commander 3

- ▶ USB connection
- ▶ VGA colour display
- ▶ History function
- ▶ EasyGo operation 
- ▶ Audio data replay
- ▶ Optional GPS module
- ▶ Network installation mode
- ▶ Reading the logger via radio
- ▶ Enhanced spectrum analysis (ESA)
- ▶ Huge memory for 1000 logger groups
- ▶ Comprehensive group/logger management

**For more information, see:
www.sebakmt.com**

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Our range of products: Equipment and systems to locate faults in power and communications networks, as well as for leak location on pipe networks · line location equipment · CCTV inspection · seminars · service · contracting.

Technical data subject to change without notice.

ISO 9001:2008