SEBALOG N-3
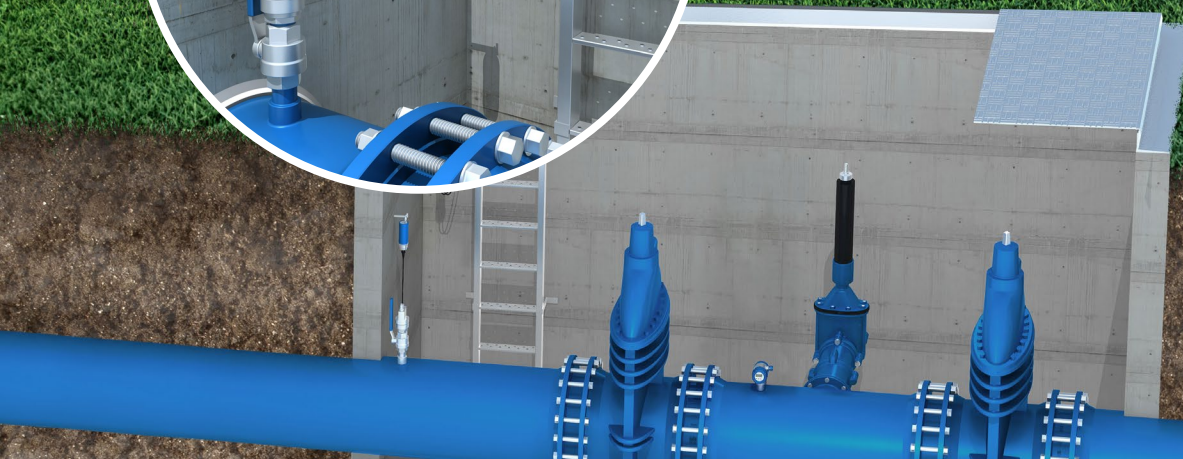
Network-compatible noise level loggers for acoustic zone monitoring

- Audible and visual leak detection
- Stores noise level and frequency
- Audio data recorded directly in the logger
- History function and comparison of measured data
- Real-time measurements
- TNC version with external antenna available
- N-3-Hydro for use with hydrophones

Leak detection – seeing and hearing

How it works

Water escaping a leak under pressure causes the pipe wall to vibrate. These vibrations can be sensed acoustically on valves using the latest noise level logger technology.

Sebalog N-3 noise level loggers not only detect the noise level of a leak, but also the frequency. Using both these factors, the leak probability can be determined, as well as the relative leak position in relation to adjacent loggers. User-friendly computer software as well as the established SebaKMT "easyGO" principle help the user to locate leaks efficiently.

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 color scale of blue (low frequency) to yellow (high frequency).

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.

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.

Pipe network monitoring – efficient and economical

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.

History function –
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.

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.

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 center 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.

Sebalog N-3

Technical data

Sebalog N-3	
Dimensions	4.5 x 1.8 inches Ø (115 x 45 mm Ø)
Weight	0.9 lbs (400 g)
Power supply	Internal Li-ion battery
Operating time	>5 years in standard conditions
IP rating	IP 68
Operating temperature	-4°F to 140°F (-20°C to +60°C)
Storage temperature	-13°F to 158°F (-25°C to +70°C)
Measured data memory	100 days
Interface	Bi-directional wireless transmission
GT3-S	
Human interface	SebaDataView, Cloud, RF - device
Battery	Lithium Battery
SIM card	Micro SIM (3FF)
Short range frequency	868 MHz / 913 MHz / 916 MHz (depending on version)
Data Transmission	GPRS (2G) / UMTS (3G) Location GPS
Connectors	GPS antenna (SMA) GSM antenna (SMA)
Protection class	IP 68
Operation temperature	-4°F to 140°F (-20°C to +60°C)
Dimensions	Length: 9.5 inches (24,13 cm) Diam: 2 ¾ inches (6,99 cm)
Weight	1.5 lbs (680 g)
Commander-3	
Dimensions (W x H x D)	9.8 x 7.5 x 3.9 inches (250 x 190 x 100 mm)
Weight	4.6 lbs (2,1 kg)
Display	VGA colour display (640 x 480 Pixel)
Power supply	Internal Li-ion battery
Operating time	>16 h
IP rating	IP 65
Operating temperature	-4°F to 140°F (-20°C to +60°C)
Storage temperature	-13°F to 158°F (-25°C to +70°C)
Measured data memory	1,000 groups with 1,000 loggers each
Interface	USB, Bi-directional wireless transmission

All advantages 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
- Combination with hydrophones for monitoring of trunk mains

The mobile remote network
- Simple deployment
- Rugged and water proof
- Easy to use operating software
- Highly accurate time synch
- Automated leak data and sound file uploads
- Relative leak size indicators: red, yellow, green

Commander 3
- USB connection
- VGA color display
- History function
- easyGO operation
- Network installation mode
- Audio data replay
- Optional GPS module
- Reading the logger via radio
- Enhanced spectrum analysis (ESA)
- Huge memory for 1000 logger groups
- Comprehensive group/logger management

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