



HYDRO

LOG3000 BT

High-performance notebook correlator – Simple operation –
Highly sensitive VIBROPHONES – Excellent measurement results



ZEROWATERLOSS
vonroll-hydro.world

LOG3000 BT – High-sensitivity correlation technology

LOG3000 BT is a mobile notebook correlator that delivers precise, efficient measurement to pinpoint location of leaks in pressurized water pipes. The system can be used on all pipe materials: steel, cast iron, plastics and cement. Measurement results are displayed in an easy-to-understand format and provide the basis for unearthing and repairing damaged pipelines. The device can be used to locate leaks through measurement localization, directional information and identification of noise sources. It can also be used for preventative inspection of pipeline sections. Additionally, LOG3000 BT can identify unauthorized or illegal pipe connections. Special functions such as surface correlating, recording correlation characteristics in a histogram graph or automatically referencing lateral / sound-velocity factors offer additional benefits in correlation technology.

Laptop or tablet

Sophisticated technology makes it possible to input leak noises transmitted to the receiver into a laptop or tablet in real-time by means of a wireless Bluetooth® connection. This offers additional advantages in data export and archiving, such as:

- Printer function
- Recording and replaying of leak noises using WAV files
- Generation and viewing measurement reports in BMP image format

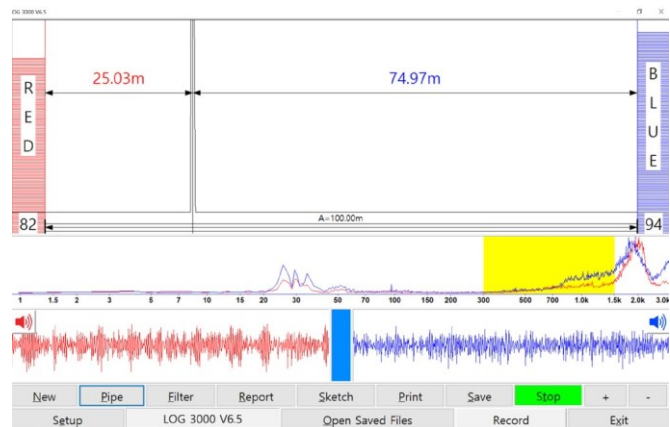
Thanks to the low resource allocation needed for LOG3000 BT software, the laptop or tablet can simultaneously run other helpful applications for correlation work in the field (e.g. INFRAPORT, maintenance lists, installation plans, etc.). The PC can also be used for standard office applications.

2. Software

LOG3000 BT software serves as the main machine interface for correlation work. Its operation is concise and user-friendly. Once the software is initiated, the user is asked for all necessary measurement parameters. After verifying all inputs, the results of measurements are immediately available. Ongoing measurements continue running for real-time reporting. The software is able to differentiate noises inside the pipeline from those caused by external sources such as traffic or heavy machinery operating nearby, and thus focus only on leak location. All measurements are immediately available on the correlation screen.

Pipe Menu

Parameters can be changed at any time in the “Pipe” menu. For example, different pipe materials with various diameters and lengths can be selected from pulldown menus. After the parameters are selected, the appropriate velocity of sound is referenced from the software’s database.

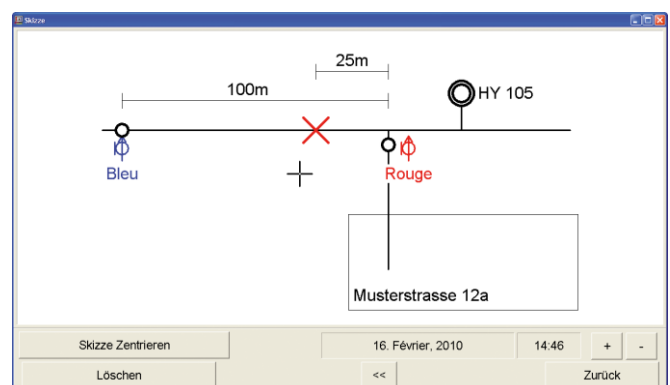


Filter Menu

The frequency spectrum in the main menu gives information on the acoustic correlation signals. Depending on the situation, default settings for the pipe material chosen can be selected from the “Filter” menu.

Report Menu

Once a leak has been located, measurement parameters are displayed and stored in the “Report” menu. The laptop’s or tablet’s camera can also be used for support documentation.



3. Hardware

The LOG3000 BT is a compact, elegant, high-performance correlator which is used in markets around the world.



VIBROPHONE

The VIBROPHONE is a highly sensitive listening device capable of detecting problem sources even in environments with very low leak noise, such as plastic pipelines.

Utilizing a magnetic coupler, the VIBROPHONE can be applied quickly in any field condition. The rugged VIBROPHONE is resistant to electromagnetic interference and magnetic fields. Fully waterproof (IP68), it can be used over a wide range of temperatures (-31°F to +212°F / -35°C to +100°C). In the standard version, it is connected to the RED / BLUE transmitter with a 5-foot cable. Extended cables are available for deeper manholes.



Receiver

Radio signals from both transmitters are sent to the receiver via antenna. The receiver then transmits the signals to the laptop or tablet through a USB interface or wireless Bluetooth® connection. The receiver is powered by a standard lithium battery and can be used continuously for up to 12 hours.

The LOG3000 BT correlator is an advanced technology tool that provides fast leak detection at a low cost. Water professionals around the world consider it their primary piece of equipment for early detection of water leaks, allowing cost savings through enhanced water system reliability.



Transmitters

The RED/BLUE transmitters amplify the signals measured by the VIBROPHONE and transmit them over 433 MHz radio band to the receiver. These devices select filter settings automatically.

Because of its sophisticated functionality, the highest and lowest leak noises can be transmitted. Additionally, it is possible to listen to audio directly on the laptop or a tablet computer. Both transmitters operate on an NiMH battery, which allows continuous operation all day long.

