

HYDROLUX HL 7000

Electro-acoustic leak detection with ground microphone, sensor rod and tracer gas

sebaKMT
by Megger®

- Completely wireless thanks to Bluetooth®
- Intuitive operation with clear touch colour display
- Always ready to use due to powerful lithium-ion rechargeable batteries
- Integrated GPS receiver
- Environmental/extraneous noise reduction
- Frequency analysis
- Optional: Connection of a tracer gas sensor



Hydrolux HL 7000 – Hear and see leaks

In the event of a damaged pipe, the escaping water causes two kinds of noise, which spread in different ways. The Hydrolux HL 7000 makes these two noises visible and audible for you:

1. The water that is escaping directly at the leak location generates noise which is transmitted through the ground to the surface. With the aid of the ground microphone, the Hydrolux picks up the noise and graphically displays the volume and the frequency spectrum.
2. Inside the pipe, the escaping water generates a pressure wave. You can hear this pressure wave as leakage noise with the Hydrolux and an attached sensor rod microphone, even at remote contact points of the pipe (valves, hydrants, house connections etc.).

The main constituent of these applications is an intuitive operating unit. All of the relevant menu items and measured data are clearly displayed on its high-resolution 4.3" touch colour display. The menu navigation it's a breeze.

Extremely light (600 grammes) but robust, the operating unit can be used in different ways: carried on the strap, fixed in place on the sensor rod or simply attached to trousers or a belt using a clip. You can wear the device however you like or in accordance with the situation. For fatigue-free working.



Thanks to the integrated Bluetooth® technology, there are no more interfering cables between the operating unit, the headphones and the respective sensors. Interfering noise caused by the wind or cable contact is a thing of the past. You can therefore devote your full concentration to the leak noise.



Hydrolux HL 7000 – Convenient applications

The HL 7000 ground noise system provides you with a wide range of options for locating leaks thanks to the variable design and the automatic 360° sensor recording. Work assignments lasting more than 10 hours are no problem thanks to the powerful lithium-ion rechargeable batteries.

The Bluetooth® capable, wind-protected piezo-electric ground microphone with integrated pre-amplification clearly picks up extremely low leakage frequencies on soft materials such as PVC or PE, and also high frequencies on steel or cast iron pipes.

Each part of the HL 7000 equipment has its own place in the robust charging and transport case. All chargeable components such as the operating unit, the sensor rod and the Bluetooth® headphones can be charged together in the case thanks to pre-installed charging cables.



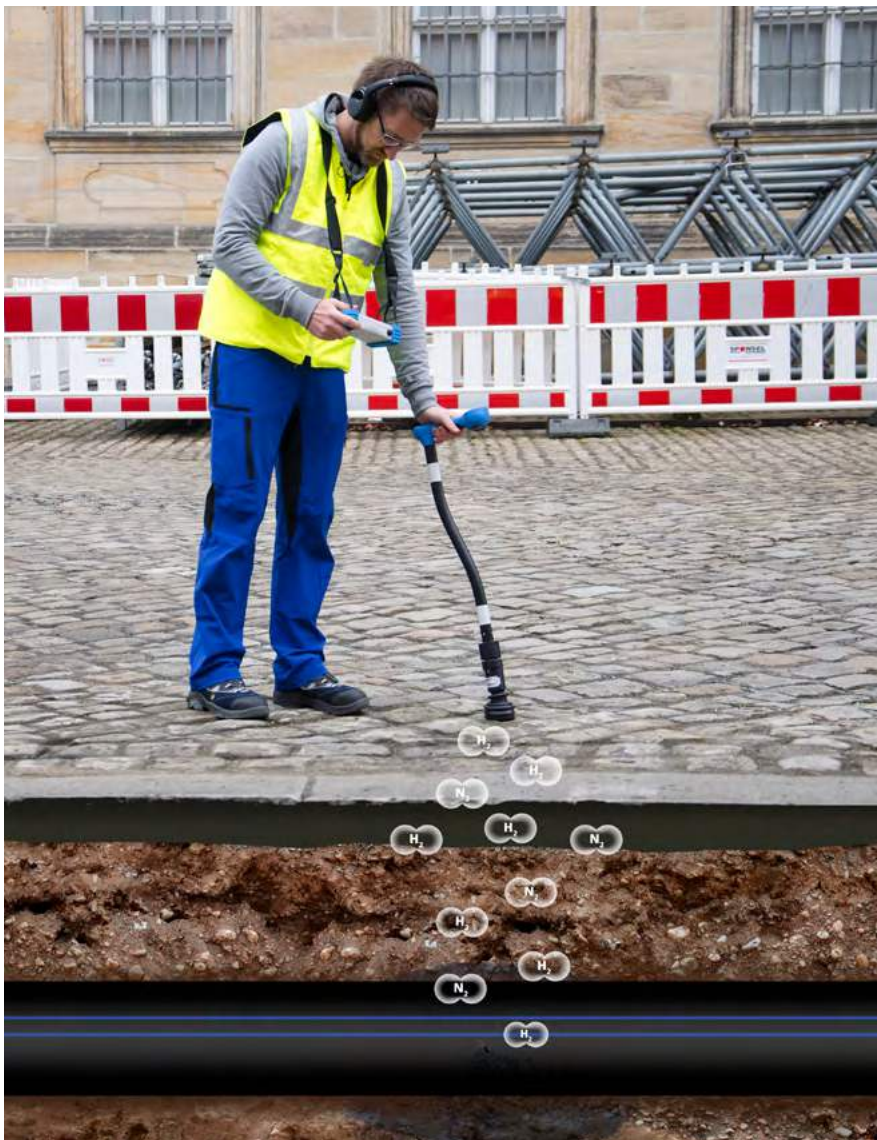
Hydrolux HL 7000 – Flexibly deployable sensor rod

The sensor rod microphone, which also has Bluetooth® capability, operates with the same integrated pre-amplification as the ground microphone. The sensor rod is therefore an excellent alternative for detecting leak noise and locating leaks far away from paved subsurfaces and without a great deal of effort.

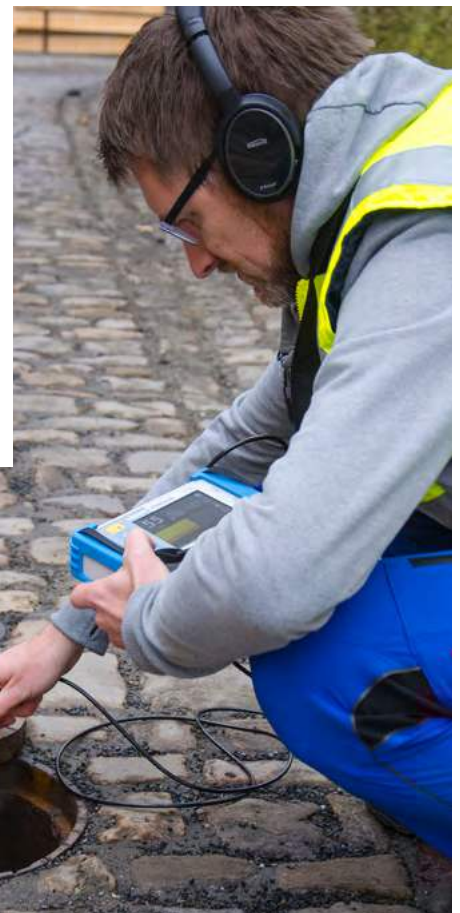


Hydrolux HL 7000 – Optionally with tracer gas sensor

Sometimes the acoustic methods are not sufficient for precise leak locating. In these cases, the HL 7000 has the option of attaching a trace gas sensor. This is quick and uncomplicated thanks to 360° sensor recording, automatic sensor detection and the Bluetooth® connection. Simply fit the trace gas sensor to the sensor rod and locate the hydrogen-nitrogen mixture on the surface.



As well as the noise or trace gas sensor, you can also use the wired universal microphone. This can be directly connected to the HL 7000 operating unit. You can therefore conveniently “listen inside the pipe” in order to distinguish between leakage noise and potential interference.



Hydrolux HL 7000 – Operating and software benefits at a glance

- Hear and see leaks: Histogram measurement
- Simultaneous display of the current and minimum value
- Environmental/extraneous noise reduction
- Long-term audio recording
- Frequency analysis of the recorded noise
- Flexible filter settings with nine freely configurable filter curves
- Sound logger function: Continuous measurement for 3, 15, 30 minutes

Level measurement

As well as the well-tried double-segment display (DSA), the user can see the noise spectrum at the same time and can now make a reliable statement about the leak.



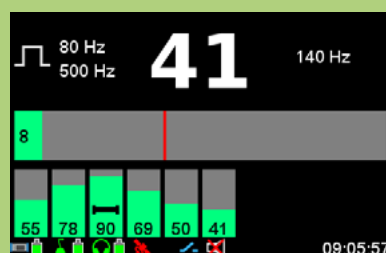
Long-term measurement

The change to the noise level can be recorded in real-time and the influence of extraneous noise excluded by closing the line valve.



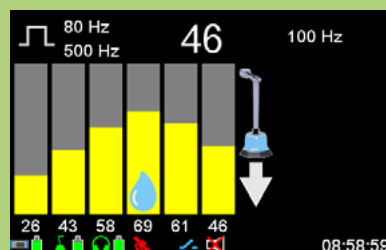
Pipe finding

In combination with the RSP-3 pipe pecker you have an excellent facility, particularly for tracing the routing of plastic pipelines.



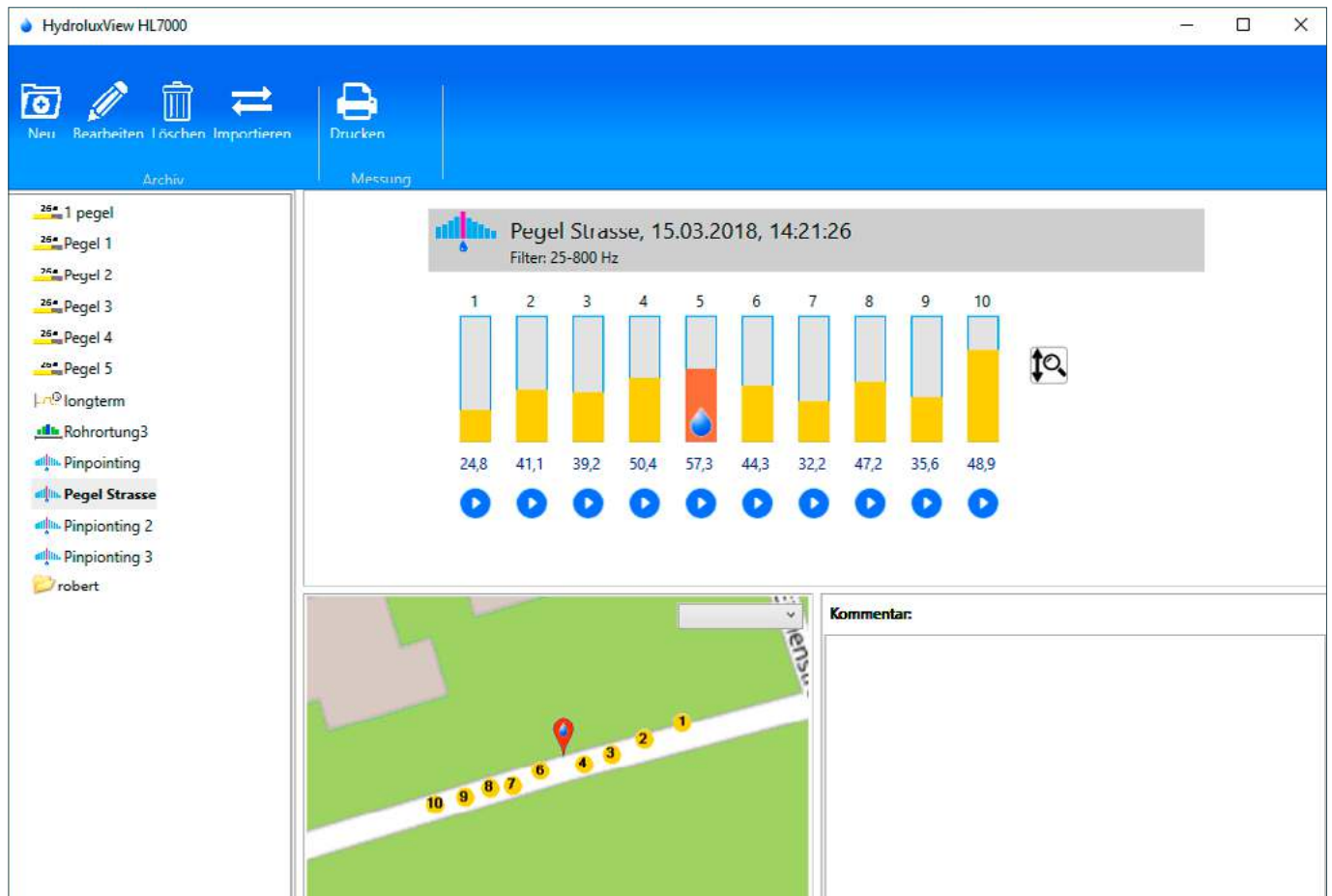
Pinpoint location

You can display the noise level at measurement positions along the pipe in order to clearly determine the maximum noise intensity. The GPS position, the level and the audio signal are automatically recorded at each measurement point. The overall measurement can be stored in the device and displayed on a map on the PC using the HydroluxView software. The stored leak noise can be played back with just a mouse click.



Hydrolux HL 7000 – Data recording – no problem

The HL 7000 operating unit has a standardised, integrated GPS module which stores the position, time and date of the respective measurements. Service providers and municipalities or public utility companies can transfer measured data, positions and even stored noise data to the PC via a USB cable after completing the measurements, and digitally create work documentation with all of the determined data or print it out if necessary. The HydroluxView PC software is available for doing this.



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