



MIKRON5

Precise leak pinpointing, with Bluetooth and GPS for seamless, accurate mapping

The Mikron5 from Ovarro is an acoustic microphone system for quickly and precisely locating water leaks on-site. Water network operators are facing the need to improve operational efficiency and meet strict regulatory targets, the Mikron5 offers a solution.



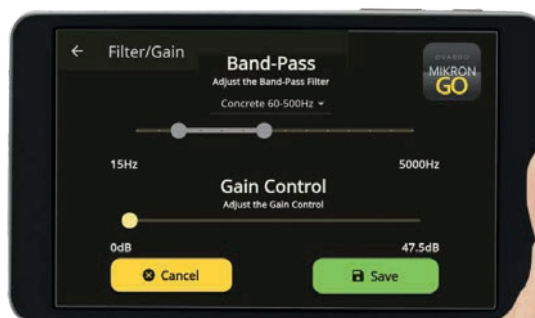
Managing vast networks of underground pipes can be complex, costly and time consuming — especially with aging infrastructure prone to leaks. Each drop of water wasted represents lost revenue for water companies, so rapid, accurate leak-detection is a must-have. With one sensor and Bluetooth communications the Mikron5 allows users to rapidly locate leaks on site prior to excavation. The Mikron5 provides high acoustic quality leak noise listening via the ground surface. The combination of advanced sensors with low-noise processing electronics gives absolutely perfect sound quality.

HOW DOES ACOUSTIC LEAK LOCATION WORK?

Water escaping from pressurised pipes generates a noise which is propagated through the water and pipe material. This noise can be detected at available fittings such as valves and hydrants. The noise also travels directly from the leak through the ground to the surface where it is detected by the ground microphone.

PINPOINTING AND CONFIRMING THE LEAK POSITION

A high sensitivity ground microphone attachment can be used on flat surfaces above the suspected leak position. The rubber cushioned housing is decoupled from the advanced piezo sensing element providing excellent isolation from airborne noises. A tripod adaptor can be fitted for use on rough surfaces and softer ground.





MIKRON5

FEATURES & BENEFITS AT A GLANCE:



• Accurate leak detections

- Variable frequency display: Mikron5's variable frequency display helps the operator home in on leak sounds. It shows the frequency content as a bar graph that intensifies as the sensor moves closer to the leak, providing clear visual confirmation.
- Minimum noise level display: To ensure precise leak pinpointing, Mikron5 displays the minimum noise level—this is the background noise including leak noise, but filtered from transient sounds like traffic or sudden environmental changes.
- Low airborne interference: With reduced background airborne interference, Mikron5 can easily detect even subtle leak noises, improving detection in challenging environments.



• Single sensor simplicity

- Ground microphone sensor: Mikron5 uses a single sensor—a suspended ground microphone designed specifically for surface listening. This focused approach simplifies use without compromising performance.
- Bluetooth communication with sensor: Sensor communication is also wireless, keeping the system compact and user-friendly in field operations.



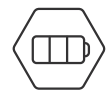
• Operator safety and listening control

- Dynamic listening control: Mikron5 protects the user by automatically muting headphone audio during sudden loud noises (e.g. passing traffic). Once the loud sound subsides, audio is automatically restored—safeguarding hearing without disrupting workflow.



• Wireless integration and data management

- Low-energy Bluetooth connectivity: Mikron5 features low-energy Bluetooth, allowing seamless audio streaming and real-time visual feedback to android and ios tablets. This enables technicians to operate untethered, enhancing mobility on-site.
- Efficient leak pinpointing: Through Bluetooth integration with a mobile device, technicians can log gps-tagged data, record db measurements, and access leak visuals wirelessly—all improving speed and accuracy.



• Field-ready durability

- On-the-go charging: Mikron5 supports in-case battery charging, offering up to 8 hours of continuous use—ideal for long field sessions.
- Rugged and weather-resistant: Built to IP65 standards, Mikron5 is suitable for harsh outdoor conditions. It operates in temperatures from -10°C to +50°C and up to 90% humidity, ensuring reliability in demanding environments.



For rapid and accurate leak pinpointing, choose the Mikron5. Find out more at Ovarro.com

SUITABLE APPLICATIONS:



Specifications are subject to change without notice.

CONTACT US:

E-mail sales@ovarro.com
Web www.ovarro.com
X www.x.com/ovarro_ltd
LinkedIn www.linkedin.com/company/ovarro

