MIKRON
AN OVARRO TECHNOLOGY

MIKRON5 Specifications are subject to change

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.

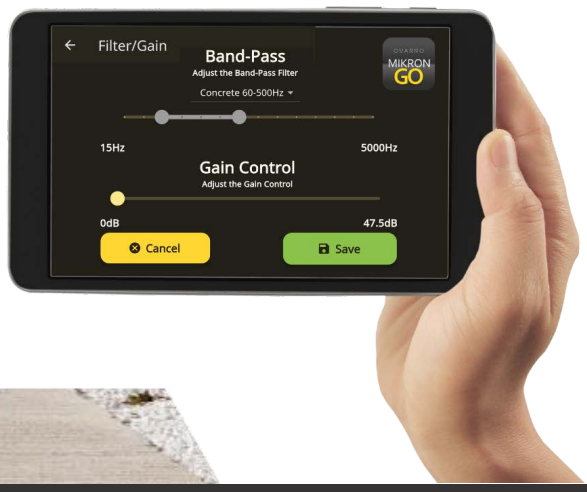
HOW DOES ACOUSTIC LEAK LOCATION WORK?

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

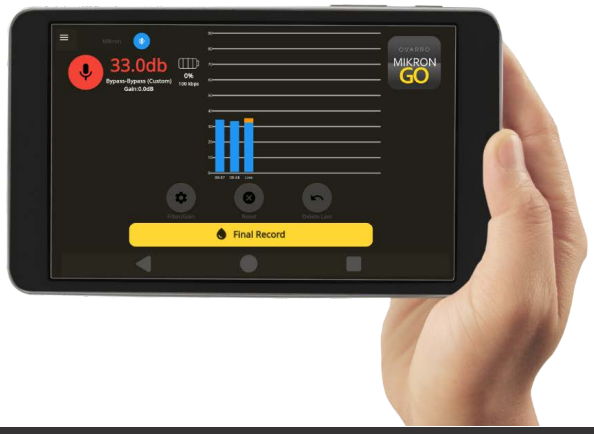
A high sensitivity ground microphone attachment can be used on flat surfaces above the suspected leak position. The rubber cushioned housing is decoupled from the advanced piezo sensing element providing excellent isolation from airborne noises. A tripod adaptor can be fitted for use on rough surfaces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



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FEATURES & BENEFITS AT A GLANCE:

- **Bluetooth communications**
  - With less background airborne interference, the Mikron5 can easily detect leak noise.

- **Single leak detection methods**

Mikron5 offers one sensor.

- The ground microphone is for surface listening and contains a suspended sensor.
- Communication with the sensor is Bluetooth.

- **Ready when you need it**
  - In-case battery charging makes the Mikron5 easy to charge on the go with up to eight hours of battery life (in test development)
  - Mikron5 is fully ruggedised with IP65, perfect for use in the field. It can operate in temperatures between -10°C to +50°C and up to 90% humidity.

- **Dynamic listening control**
  - Mikron5 safeguards the workforce through the dynamic listen control feature. If the noise level changes rapidly, for example due to traffic noise, then the sound to the operator headphones is switched off. When the source of louder noise disappears, the Dynamic Listen Control automatically reconnects sound to the headphones, protecting the operator's hearing. This will be handled by the device/Bluetooth headphones so operation will be different depending on connected device.

- **Variable frequency display**

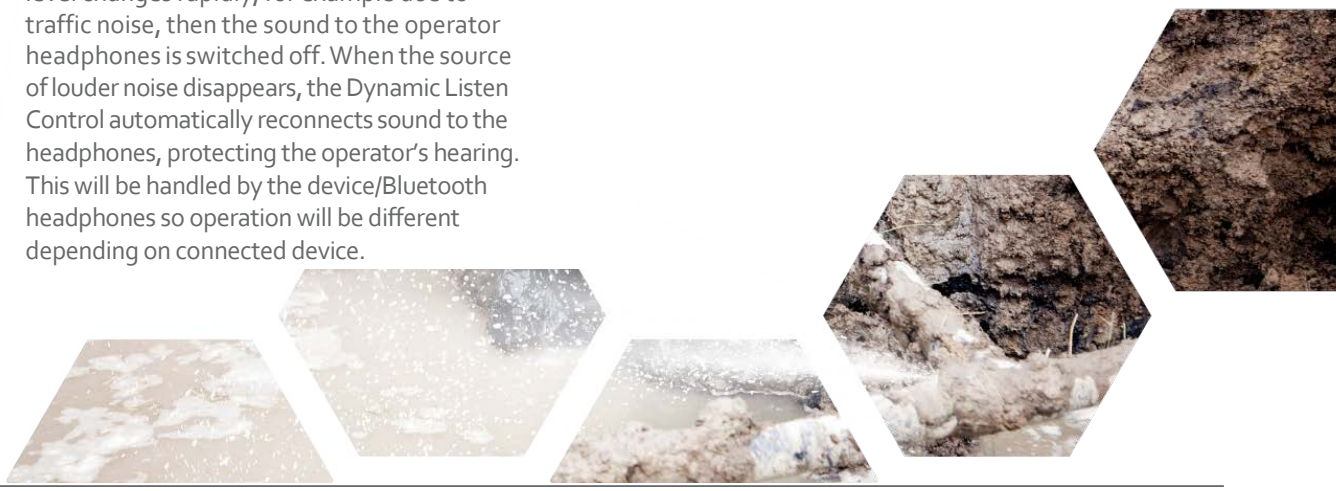
Mikron5's variable frequency display enables the operator to home in on the noise to confirm a leak.

- For accurate leak pinpointing, the Mikron5 displays the minimum noise level. This is the background noise level, including leak noise, but without transient noises such as traffic. The Mikron5 also displays the frequency content detected as a bar graph. This will increase as the sensor is positioned closer to the leak.

- **Processor options for maximum flexibility**

The Mikron5 features low-energy Bluetooth connectivity.

- This enables seamless audio streaming and real-time visual feedback on Android and iOS tablets. This wireless integration allows technicians to efficiently pinpoint water leaks with precise dB measurements and GPS-tagged data, enhancing accuracy and ease of use.



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

SUITABLE APPLICATIONS:

WATER

Specifications are subject to change without notice.
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