

Mikron

Advanced acoustic leak location system

Mikron is a high performance, simple to use leak locator. The design is based upon an advanced sensor and incorporates low-noise processing electronics to give excellent acoustic performance over a wide frequency range. *Mikron* incorporates a *Minimum Noise Level* measurement system.

Features

- Very high acoustic sensitivity
- Acoustic probe, ground microphone and combined system options
- Advanced ground microphone with wind-noise isolation
- *Minimum Noise Level* measurement
- Lightweight amplifier with clear digital display
- Simple to use

Principle

Mikron detects noise generated by leaks in water pipes. The leak noise travels through the water and pipe wall and can be detected by listening at valves or hydrants. Leak noise also propagates from the leak to the ground surface where it can be detected using the sensitive ground microphone.



Minimum Noise Level digital display

To enable accurate leak pinpointing *Mikron* displays the *Minimum Noise Level*, i.e. the background noise level which will potentially include the leak noise, but without transient noises, such as road traffic.

Mikron also displays the two previous *Minimum Noise Level* measurements such that the user can easily tell if they are moving toward or away from a leak. The current sound level, volume position and battery charge are also displayed.

Simple to use, the Mikron gives excellent acoustic performance over a wide frequency range!



Choice of three systems

Alpha Acoustic Probe

- Sensor
- Sensor handle + rods (three pieces)
- Ground contact tripod
- Ground spike
- Magnet attachment
- Hand-held amplifier (with neck strap)
- High quality headphones
- Battery charger
- Rugged carry case



Gamma Ground Microphone

- Ground microphone sensor
- Microphone handle (two pieces)
- Hand-held amplifier (with neck strap)
- High quality headphones
- Battery charger
- Rugged carry case



Alpha + Gamma Combined

- The acoustic probe + ground microphone systems combined into one system



Advanced amplifier

The small, lightweight amplifier unit can be held in one hand. The display is easy to read and includes the following range of filters for operation in different leak location conditions.

Ground listen, metallic pipe	75Hz - 1500Hz
Ground listen, plastic pipe	75Hz - 750Hz
Direct contact, metallic pipe	600Hz - 2500Hz
Direct contact, plastic pipe	200Hz - 1500Hz
Wideband	30Hz - 4000Hz

Aviation quality headphones are available as an option to further reduce ambient background noise.

Flexible performance

In the ground microphone system the high performance sensor is suspended thus drastically reducing interference from wind or other sources of airborne noise. The acoustic probe system can be configured as an electronic listening stick or ground microphone and includes a tripod for use on hard ground, spike for use on soft ground and optional magnet.

The systems are rugged and use military grade connectors for sensor, headphones and battery charging. Rechargeable batteries provide approximately 35 hours operation (without backlight).

Part Numbers

Mikron Alpha acoustic probe system	GXG 655
Mikron Gamma ground microphone system	GXG 650
Mikron Alpha + Gamma combined system	GXG 657
Optional vehicle battery charger	GXG 664