

Advanced Electronic Acoustic Leak Detection



KEY BENEFITS

- Simple (one button) or manually selectable filters
- Multi-function display showing noise level (graphically and digitally) and dynamical sensitivity (signal strength)
- Improved sound quality
- Levels of leak noise can be recorded for comparison in a histogram profile (MLP)
- IP65 enclosure with mil-spec connectors
- A pair of good quality headphones.

The Xmic (pronounced exmike) is an advanced, electronic ground microphone designed to amplify the noise generated by water escaping from buried supply pipes under pressure. Identifying the position of the loudest leak noise indicates the position of the actual leak itself.

The Xmic system comprises of a lightweight portable amplifier module complete with battery charger, a pair of aviation quality headphones and an acoustically shielded ground microphone foot.

As an optional extra, a hand held listening probe is available. This comes with a tripod foot and two probe rods for sounding in soft ground.

Xmic is an advanced yet easily used Ground Microphone System. The latest acoustic and amplification technology provides excellent sound quality, whilst a range of features help effective and accurate pinpointing on site.

Minimum (noise) Level Profiling (MLP).

The easy-to-use advanced features of the Xmic enable the operator to pinpoint leaks faster and with more confidence than ever before. In MLP mode (when sampling) the Xmic records the lowest level in the last three seconds (the background leak noise), and builds a visual graph of these levels.



Halma Water Management

Call +44 (0) 1633 489479
or visit www.hwm-water.com

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ENVIRONMENTAL MONITORING
PRESSURE CONTROL
LEAK DETECTION
DATA LOGGING
FLOW MEASUREMENT

Control Unit	Filter Options
Processor: 4MHz 16 bit	Variable High Pass and Low Pass filters across frequency range
Input impedance: 1M Ω	Three automatic filter settings based on pipe material
Output impedance: 6 to 16 Ohms	Metallic – High Pass 350Hz, Low Pass 3kHz
Amplification: 46dB	Plastic – High Pass 75Hz, Low Pass 3kHz
Frequency range: 30 to 3000Hz	Broadband – High Pass 30Hz, Low Pass 3kHz
Distortion: Better than 1%	
Battery: 2 x Lithium ion 1.8Ah rechargeable batteries	Hand Probe Attachment (Optional Upgrade)
Battery life: Minimum 25 hours (without backlight)	The hand probe option includes the tripod and two stainless steel probe rods (each 400mm in length)
Battery charge: Maximum 8 hours	Combined weight of rods 162g
Charger: Universal 110-240V AC mains charger with 12V DC output	
Weight: 1kg	Headphones
Dimensions: 206mm x 167mm x 86mm	Sennheiser HD215 headphones are supplied as standard with the Xmic.
Environmental rating: IP65	Aviation Quality Headphones available as option
Operating temperature range: 0 - 50°C	
Operating humidity: 0 – 95% non-condensing	Microphone
Connection: Military specification Amphenol	High sensitivity piezo-electric sensor mounted in windproof, nitrile rubber housing
Keypad: Membrane with push button	Low noise 1.5m cable (detachable)
Display: 128 x 128 transfective LCD	Weight: 2.9kg
Signal level display 0 – 99	
<i>HWM reserves the right to change the specification of any product without prior notice.</i>	