



Introduction

The Xmic (pronounced ex-mike) 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.



USER FRIENDLY DESIGN

CLEAR GRAPHICS

PORTABLE

HIGH VISIBILITY SCREEN

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.

Features

- Simple (one button) or manually selectable filters
- Multi-function display showing:
Noise level (graphically and digitally)
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.



For more information call +44 (0) 1633 489479
or visit www.hwm-water.com

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PRODUCT SPECIFICATION

Control Unit

Processor: 4MHz 16 bit
Input impedance: 1M Ω
Output impedance: 6 to 16 Ohms
Amplification: 46dB
Frequency range: 30 to 3000Hz
Distortion: Better than 1%
Battery: 2 x Lithium ion 1.8Ah rechargeable batteries
Battery life: Minimum 25 hours (without backlight)
Battery charge: Maximum 8 hours
Charger: Universal 110-240V AC mains charger with 12V DC output
Weight: 1kg
Dimensions: 206mm x 167mm x 86mm
Environmental rating: IP65
Operating temperature range: 0 - 50°C
Operating humidity: 0 – 95% non-condensing
Connection: Military specification Amphenol
Keypad: Membrane with push button
Display: 128 x 128 transfective LCD
Signal level display 0 – 99

Filter Options

Variable High Pass and Low Pass filters across frequency range
Three automatic filter settings based on pipe material
Metallic – High Pass 350Hz, Low Pass 3kHz
Plastic – High Pass 75Hz, Low Pass 3kHz
Broadband – High Pass 30Hz, Low Pass 3kHz

Microphone

High sensitivity piezo-electric sensor mounted in windproof, nitrile rubber housing
Low noise 1.5m cable (detachable)
Weight: 2.9kg

Hand Probe Attachment (Optional Upgrade)

The hand probe option includes the tripod and two stainless steel probe rods (each 400mm in length)
Combined weight of rods 162g

Headphones

Sennheiser HD215 headphones are supplied as standard with the Xmic.
Aviation Quality Headphones available as option

HWM reserve the right to change the specification of any product without prior notice.

» Halma Water Management a Division of Palmer Environmental

Ty Coch House Llantarnam Park Way Cwmbran Gwent NP44 3AW United Kingdom

» Tel: +44 (0) 1633 489479 Fax: +44 (0) 1633 877857 » sales@hwm-water.com www.hwm-water.com

» Registered Address: Ty Coch House Llantarnam Park Way Cwmbran Gwent NP44 3AW

» Registered in England No: 1463016