

# Omikron®

ELECTRONIC LEAK LISTENING SYSTEM



Omikron® detects noise generated by leaks in buried pipes.

The leak noise travels through the water and pipe wall such that it can be detected by listening at valves or hydrants using the Omikron hand probe. The noise also propagates from the leak to the ground surface where the Omikron ground microphone can be used.



Listening at hydrant using the hand probe



Omikron  $\gamma$  ground microphone in use

## Sensitive

The Omikron hand probe and ground microphone incorporate sensor technology able to detect leak noise outside the normal range of the human ear. The ground microphone is mounted in a wind-proof housing of rugged, stainless steel construction.

## Benefits

- Omikron uses high sensitivity sensor technology to detect 'quiet' leaks
- Ground microphone has unique suspension system giving extended low frequency response
- Wide band amplification of leak noise
- Simple to operate
- Small, lightweight, rugged construction

aqua technology solutions

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## ELECTRONIC LEAK LISTENING SYSTEM

A choice of three Omikron options are available:

- α The *alpha* is a simple electronic hand probe together with the small 'belt' amplifier, headphones and extension rods.
- γ The *gamma* system comprises ground microphone with an advanced amplifier which provides filtering and display of leak strength.
- α+γ Combined *alpha* electronic leak hand probe together with the *gamma* system of ground microphone with the advanced amplifier unit.



Omikron α hand probe kit

### Flexible

The leak signal from the hand probe in the *alpha* system is amplified by the belt amplifier. The leak signal from either the hand probe or the ground microphone can be amplified by the advanced amplifier.

The belt amplifier is typically clipped to the user's belt so leaving the hands free. The belt amplifier is a wide-band amplifier and is designed using low power, ultra low noise, analogue signal processing circuitry for optimum performance.

The advanced amplifier unit has the addition of variable filters, visual noise indication (relative to the last measurement position), and 50/60Hz notch filters. The display is back-lit, giving clear, easy to read, results under all lighting conditions. A variable headphone gain control, with 10 segment LED bar-graph indicator, gives instant indication of signal strength. A 'hold' control freezes signal strength display for easy interpretation of results.



Omikron α+γ combination system with rugged transport case

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**Primayer Limited**  
Euclid House, Parklands Business Park,  
Denmead, Hampshire PO7 6XP, United Kingdom  
Telephone: +44 (0)23 9225 2228  
Fax: +44 (0)23 9225 2235  
E-mail: sales@primayer.co.uk  
[www.primayer.co.uk](http://www.primayer.co.uk)

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