

Multi-point correlation system for leak location

Enigma® is a state-of-the-art digital correlation logging system for determining the location of leaks in buried water pipes. Enigma® combines noise logging and noise correlation into one operation to provide improved operational efficiency.

MULTI-POINT NETWORK CORRELATION

Enigma® loggers are deployed at multiple positions, typically on valves or hydrants, during normal working hours. They may be programmed for either daytime or night-time operation. The loggers record the actual leak sound. When retrieved the leak sound is transferred to the host software where it is processed to display all leak positions between loggers.

Programming and data readback utilises optical and USB communications to ensure rapid operation.



FEATURES & BENEFITS AT A GLANCE:

Enigma® offers the following:



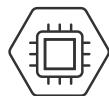
- Optimum performance in difficult leak detection situations



- Avoids costly night-time working



- Three sound samples separate leakage from genuine water use



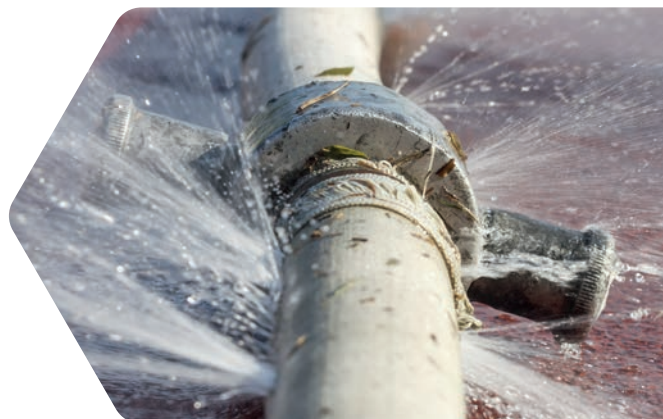
- Latest 24-bit digital correlation



- Finds multiple leaks

Enigma® - Compact - three logger system:

- Low cost, high performance digital correlator
- Traffic friendly deployment
- Easy to use





OPTIMUM LEAK SENSING

Overnight use provides ideal conditions for leak detection. This is because background acoustic noise from traffic, water usage and other sources, is lowest and, at the same time, water system pressure can be higher which greatly aids leak sound propagation.

SYSTEM FEATURES:

- **Logger programming/readback via PC or one button press in the Communications Case**
- **Loggers powered for 5 years**
- **Advanced filtering and coherence functions**
- **Unwanted noise suppression**
- **Auto-velocity determination**
- **Pipe schematic with correlation 'thumbnails' display**

SEPARATING GENUINE WATER USAGE

Each logger records during three sample periods, typically spaced one hour apart. A characteristic of leak noise is that it is always constant and so if the correlation peak is not present during all three samples then it is due to water use and not leakage.

PRODUCTS

Enigma®-Compact Kit (3 loggers)	JXG 601
Enigma® Kit (8 loggers)	JXG 001



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