

Remote leak pinpointing solutions

Our multi-point correlation systems allow utilities to monitor the water network and locate leaks very accurately from their desktop or laptop. The precise positions of leaks are found thanks to advanced, innovative, time-synchronisation, correlation and data analysis.

ENIGMA3M

Advanced, correlating, noise logger with accurate time-synchronisation for pinpointing leaks remotely. All hardware is safely below ground due to powerful antenna and communications.



ENIGMA3HYQ

Advanced, correlating, noise logger with accurate time-synchronisation for pinpointing leaks remotely in plastic and metal pipes of any diameter.



FEATURES & BENEFITS AT A GLANCE:



Advanced accelerometer sensor

- Pinpoints quiet hard-to-find leaks
- Fewer loggers deployed per km of network



Innovative correlation analytics

- Pinpoints leaks very accurately
- Simple but effective data enables water companies to meet regulatory targets



Modem for remote operation

- Monitor leakage in large networks
- Save manpower and money



Flexible deployment - fixed or semipermanent

 Save CapEx and OpEx by enabling strategic deployment across large networks



Highly sensitive hydrophone sensor installed inside the pipe

- Can cover the whole network whatever the pipe diameter and material
- Long distance between fittings means fewer loggers deployed, so reducing costs



Innovative correlation analytics

- Pinpoints leaks very accurately in pipes of any material
- Simple but effective data enables water companies to meet regulatory targets



Data sent daily to cloud analytics platform PrimeWeb

- Leaks are found and fixed fast
- Data is readily available anywhere anytime



Position of logger located by GPS

Manage assets with less manpower





ENIGMA3M

A state-of-the-art, accurately-time-synchronised, correlating, noise logger for pinpointing leaks remotely

SENSOR

Type Integral accelerometer

Sensitivity 30V/g
Frequency range 1 - 2500Hz
Attachment Integral magnet

SAMPLING

Measurement period One epoch per night

Resolution 12-bit

Data memory 8MB static RAM

LOCAL COMMUNICATIONS

Type Infra-red Range 0.5 metre

Programming Via Communications Module

3G/2G COMMUNICATIONS

SIM type Internal roaming SIM
Transmission frequency (audio+data) Once per day
Antenna Penta band

BATTERY

Type Lithium Thionyl Chloride (non-rechargeable)

Operating life 5 years (dependant upon GSM signal strength and retries)

PHYSICAL

Waterproof rating Robust aluminium enclosure to IP68 (submersible to 1 metre)

Operating temperature range -20°C to 70°C

Dimensions (without antenna) 123mm x 58mm diameter

Weight 481 grams

CORRELATION RESULTS

Data storage WAV files stored in Primayer Cloud

Platform PrimeWeb operating on an internet browser (Chrome recommended)

