



## ENIGMA5M

# Accelerometer-equipped noise loggers for automatic leak detection and sustainable water management



The Enigma5M correlating noise loggers utilise either IoT (Cat-M1) with 2G fall back or 4G (Cat-1 Bis) connectivity to remotely locate leaks in water distribution networks. Designed for deployment in underground chambers without the need for costly above-ground technology, the Enigma5M is lighter, more compact, and easier to ship and handle than the previous series. The unit now has a user replaceable battery. This design enhancement boosts operational efficiency and simplifies maintenance, delivering extended performance and reduced downtime, all while maintaining high-level accuracy and reliability in water networks.

### RAPID LEAK LOCATION

The Enigma5M correlating loggers transmit daily leak noise data via either IoT (Cat-M1) with 2G fall back or 4G (Cat-1 Bis) communication networks. This data is sent to a server, providing leak alarms and allowing users to listen to the recorded noise, improving leak confirmation before traveling to site. Additionally, correlation can be performed across multiple loggers to accurately pinpoint leak positions. To ensure precise correlations every time, a daily logger time synchronisation is achieved through Ovarro patented technology.

### FEATURES & BENEFITS AT A GLANCE:



- Correlation processing for accurate leak positions



- Daily transmission for improved efficiency and reduced leak run time



- Logger GPS location stored



- Roaming Nano SIM for optimum network communication - user enabled battery replacements



- Simple installation – no above ground radio repeaters required



- Data available at any location via Atrium on a web browser



- Noise logging in DB values displayed as histograms



- Lighter and more compact design than previous series





## ENIGMA5M

### LOGGER CHARACTERISTICS

- High sensitivity sensor
- Powered for up to 5 years (dependent upon signal conditions)
- Submersible to IP68
- Lighter compact design
- Large data memory
- User replaceable battery

### ENIGMA5 DEPLOYMENT APPLICATION



The Enigma5 deployment app available on IOS and Android, enables seamless, and efficient logger management. With GPS-based tagging, real-time updates, and Bluetooth connectivity, it allows rapid deployment directly through the app—no communication module needed. Easily access historical data, sync with Ovarro's advanced Atrium analytics platform, and streamline data transfer for quick leak detection and response.

### DATA FOR LEAKAGE MANAGEMENT

When data reaches the server, it is processed and analysed using the Atrium utility tool. Atrium offers a comprehensive database and an online viewing platform for network flow, pressure, and leak alarms from XiLog data loggers, as well as Enigma5BB and Enigma5HyQ loggers. Accessible from any Internet-enabled device, users can view logger positions on Google Maps, complete with colour-coded leak alarms. Historical data is also available for review. The integration of leak position indicators on Google Maps, along with 'Street View' visualisation, significantly enhances management capabilities for leakage teams.

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Changes in specifications may apply



### SUITABLE APPLICATIONS:

### CONTACT US:



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