ENIGMA
AN OVARRO TECHNOLOGY

ENIGMA 5HYQ

Compact remote leak pinpointing solution with hydrophone sensors for sustainable water management

Enigma5HyQ is a variant of the Enigma5M multi-point noise correlation system, utilising either IoT (Cat-M1) with 2G fall back or 4G (Cat-1 Bis) connectivity. It has been optimised for leak detection over longer distances, especially on large diameter and plastic pipes in water distribution networks. Deployed in underground chambers, it requires no costly above-ground technology. The system is now more compact and lighter than the previous series, making it easier to ship and handle. It now has user replaceable batteries, ensuring smoother maintenance and extended performance with minimum downtime.

OVARRO
ENIGMA 5

FEATURES & BENEFITS AT A GLANCE:

- Correlation processing for accurate leak pinpointing

- Light weight, compact high sensitivity hydrophone

- Powerful adaptive filter for optimum leak location performance

- Daily transmission for improved efficiency and reduced leak run time

- Simple installation - no above ground radio repeaters required and user replaceable battery

- Enigma5 deployment app available on IOS and Android. Data available at any location via Atrium -IoT (Cat-M1) and optional 4G variants.

PIPELINE MONITORING

It has been optimised for leak detection over long distances and is particularly suited for use on large diameter and plastic pipes in water distribution networks. The Enigma5HyQ correlating loggers transmit daily leak noise data to our server via either IoT (Cat-M1) with 2G fall back or 4G (Cat-1 Bis) communication networks. Correlation is performed across multiple loggers to accurately pinpoint leak positions. Users can listen to the recorded noise, helping to confirm the correlation results whilst reducing false positives. Additionally, daily time synchronisation of the loggers ensures accurate correlations everytime.

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LOGGER CHARACTERISTICS

- **Aggregated correlations for difficult leaks**
- **Small size for fitting into underground chambers - no above ground installation required**
- **Logger GPS location saved**
- **Logger submersible to IP68**
- **Lighter compact design**
- **User replaceable battery**

NETWORK FLOW, PRESSURE AND LEAK LOCATION DATA

Atrium provides a database and online viewing facility for network flow, pressure, and leak alarms from other Ovarro loggers. It is accessible from any device with internet access. Logger positions can be displayed on Google Maps* and coded to indicate leak alarms. Historical data is also available. Leak positions can be shown on Google Maps* along with 'street view' visualisation, aiding leakage teams in managing and addressing leaks effectively.

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 Atrium analytics, and streamline data transfer for quick leak detection and response.

*Google Maps is a registered trade mark of Google Inc

Changes in specifications may apply

SUITABLE APPLICATIONS:

WATER

CONTACT US:

E-mail	sales@ovarro.com
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X	www.X.com/ovarro_ltd
LinkedIn	www.linkedin.com/company/ovarro

OUR SOLUTIONS | MONITORING & CONTROL | LOGGERS | LEAK NOISE LOGGERS & CORRELATORS

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