



ENIGMA3HYQ

Remote leak pinpointing solution incorporating hydrophone sensors

Enigma3hyQ is a variant of the Enigma3M multi-point noise correlation system utilising 4G/3G/2G or IOT communications. Enigma3hyQ has been optimised for leak location over longer distances, on large diameter pipes and plastic pipes in water distribution networks. It is deployed in underground chambers and requires no costly above ground technology.



FEATURES & BENEFITS AT A GLANCE:



- Correlation processing for accurate leak pinpointing



- Daily transmission for improved efficiency and reduced leak run time



- High sensitivity hydrophone



- Simple installation - no above ground radio repeaters required



- Powerful Adaptive Filter for optimum leak location performance



- Data available at any location via PrimeWeb Multiple

PIPELINE MONITORING

The Enigma3hyQ correlating loggers transmit daily leak noise data to our server via the 4G/3G/2G or IOT communication networks. Correlation is performed from many loggers to accurately locate leak positions. The user has the opportunity to listen to the recorded noise thus helping to confirm correlation results are due to leak noise. To enable accurate correlations a daily logger time synchronisation is carried out by a new technology.

NETWORK FLOW, PRESSURE AND LEAK LOCATION DATA

PrimeWeb provides a database and on-line viewing facility for network flow, pressure and leak alarms from XiLog+ data loggers, Phocus3/3m noise loggers and Enigma3m correlating noise loggers. It is accessible on any device with internet access. Logger positions can be shown on Google Maps* and coded to show leak alarms. Historical data is also available. Indication of leak positions on Google Maps* together with 'street view' visualisation of the leak position aids management for leakage teams.





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SYSTEM FEATURES

- Aggregated correlations for difficult leaks
- Auto-velocity determination for accurate leak location
- Small size for fitting into underground chambers - no above ground installation required
- Logger powered for 5 years (dependent upon 3G/GPRS signal conditions)
- Logger GPS location saved
- Logger submersible to IP68

PRODUCTS

| | |
|---|---------|
| Enigma3hyQ logger + hydrophone (GPRS only) | BXG 305 |
| Enigma3hyQ integral logger + hydrophone (GPRS only) | BXG 331 |
| Enigma3hyQ logger + hydrophone (3G / GPRS) | BXG 306 |
| Enigma3hyQ integral logger + hydrophone (3G / GPRS not including North America) | BXG 333 |
| Enigma3hyQ logger + hydrophone (3G North America) | BXG 307 |
| Enigma3hyQ integral logger + hydrophone (3G / GPRS North America) | BXG 334 |
| Communications Module | BXG 901 |



*Google Maps is a registered trade mark of Google Inc

British Patent Number: 2555053

SUITABLE APPLICATIONS:



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