

EUREKA3+

Touch screen correlator with powerful filtering options for all pipe materials

The innovative Eureka3 provides high performance leak location even on plastic pipes. Operation of correlating noise loggers and ground microphone is available from the same platform for optimum leak location and confirmation.



FEATURES & BENEFITS AT A GLANCE:



- High definition touch screen for easy operation



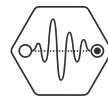
- Street-working friendly



- Velocity correction function



- Powerful new Adaptive Filter option



- Off-line leak location via correlating loggers



- Leak confirmation using ground microphone

EUREKA3 - EASY TOUCH SCREEN OPERATION

The Eureka3 software operates on the PrimeTouch® hardware platform which is designed for water leakage control applications. The high visibility colour display provides clear operation in all weather conditions. The touch screen ensures easy operation involving the minimum actions to achieve results. Large 'virtual buttons' allow use when gloves are worn. The use of dual co-processor accelerates filtering, coherence and correlation processing.

EUREKA3+ - POWERFUL ADAPTIVE FILTERING

The Eureka3+ incorporates the new Adaptive Filter. This operates live in the frequency domain and automatically applies different filter frequency ranges selecting the correlation with the best peak. Spectral Whitening is a further option which gives constant amplitude at all frequencies; boosting high frequencies (which are attenuated along the pipe). These filters enable the location of difficult leaks missed using correlators with conventional filters. The Eureka3+ option also features post-processing such that re-analysis of results can be carried out on and off site.





EUREKA3+

OFF-LINE CORRELATION USING ENIGMA LOGGERS

Sometimes pipe fittings are not easily accessible or excessive noise interference exists during the day. In these situations the Enigma correlating loggers can be programmed from the PrimeTouch processor and deployed. Off-line correlation can be carried out at any time including overnight. When the correlation is complete the results are analysed on PrimeTouch and the leak location marked on-site.

LEAK CONFIRMATION VIA MIKRON3

Connection of the ground microphone to PrimeTouch is achieved via wireless communications to eliminate airborne noise pick-up. Very high quality leak listening together with minimum noise and frequency level displays enable accurate leak pinpointing and confirmation.

VELOCITY CORRECTION FOR IMPROVED ACCURACY

Potential errors in the leak position result from the use of default velocity values of leak noise propagation. The velocity correction function overlays a correlation peak produced from induced noise, over the correlation produced from the leak noise. This auto-corrects for velocity variation giving a more accurate leak location result.

POST-PROCESSING ANALYSIS VIA PC SOFTWARE

Leak noises saved into Eureka3 and Enigma memory can be transferred to the powerful Enigma® PC software for later analysis. This software includes techniques such as 'narrowband filtering' and an interface to Google Maps* such that the leak position can be shown.



SYSTEM FEATURES

- **Optional direct transmitter connection to pipe (street working friendly)**
- **Rapid leak detection - before entry of pipe details**
- **Unwanted noise suppression**
- **GPS leak and transmitter locations saved**
- **In-case battery charging from mains or vehicle**

PRODUCTS

Correlator system (includes external accelerometers)	CXG 931
Correlator system + Enigma loggers (set of 3)	CXG 933
Correlator system + Mikron3 ground microphone	CXG 934
Correlator system + Enigma loggers + Mikron3 ground microphone	CXG 936
EUREKA3+ OPTION	
Eureka3+ upgrade incorporating Adaptive Filtering + signal re-analysis	Add /3+ to above product codes



SUITABLE APPLICATIONS:



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