

Advantages of ZCorr Correlating Loggers

- Performs correlations exactly like a correlator
 - Pinpoints exact distance to leak
- Can operate at night in "Overnight Survey"
 - Less traffic and usage noise
- Multiple loggers survey large areas for leaks
 - 8, 16, or 32 loggers over miles of pipe
- · Can turn "ON" multiple times with hours between recordings
 - Best chance to get leak sounds without usage noises
- Can find smaller leaks at night
 - less traffic and usage noise
- Even more sensitive than human ear
- User can listen to the actual leak sounds for 60 seconds for each recording (unfiltered)





Advantages of Automatic Leak Frequency Analysis (ALFA)

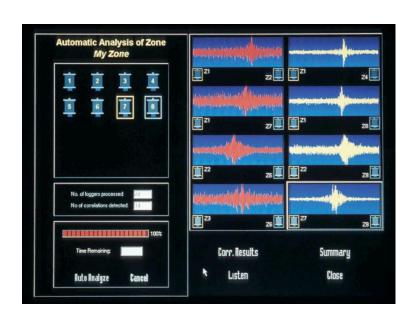
- Accurate registration and pinpointing of each leak sound occurs automatically with every recording
- Tracks the patterns of the leak sound over time to "tune in" to the true leak sound signal
- Digital signal processing isolates (multiple) leak sounds individually at each logger, statistically optimizing their correlation at each possible value of time delay
- · No fixed high or low filters are needed for matching the audio frequencies at two correlating loggers
- · Can extract the true leak sounds from each recording even when louder noises are present at the same audio frequencies

The Solution is in the ZCorr Software

Analysis of All Correlations Found

Correlation for Z2 and Z3

Click a Thumbnail, See the 8 Best Correlations.

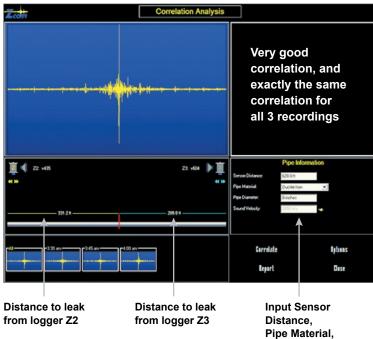


Above: Many correlations at many loggers. One leak or many?

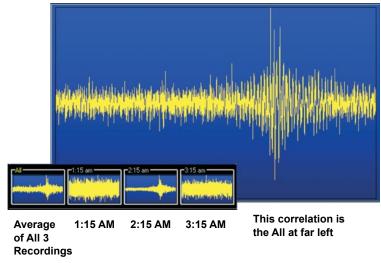
Click *Listen*. Logger No. 4 much louder (below).



Click *Play* and listen to the leak for 60 seconds.



and Diameter



Correlation at 2:15 AM but not at 1:15 AM or 3:15 AM. Answer: Usage at service.

Technical Specifications ZCorr Digital Correlating Loggers

Logger

• Enclosure: Aluminum, cylindrical

• Protection: IP68, fully submersible

Dimensions: 2.25" diameter x 4.5"
 (5.7 cm x 11.4 cm)

• Weight: 1 lb (450 g)

Mounting: Magnet, 40 lbs (18 kg) pull force

• Operating temperature range: -20 to +140°F

(-30 to +60°C)

 Power source: Lithium battery, 5-year life, factory-replaceable, non-rechargeable

Sensor:

High-resolution electronic accelerometer

Shockproof to 6,000 g

- Sensitivity: 1 V/g

Resolution: 0.25 μg /√Hz

Data Acquisition:

Frequency range: 1-3,000 HzSignal range: sub 1 μg – 20 mg

Digital resolution: 20 bits

Docking Station

· Enclosure: Rugged ABS carrying case

Protection: IP68 - closed; IP65 - open

• Weight: 15 lbs (6.8 kg) without DCLs

Dimensions: 20.5" x 16.75" x 8.5"

(52 cm x 42 cm x 22 cm)

Operating temperature range:
 +20 to +140°F (-5 to +60°C)

Capacity: 3 to 8 DCLs

PC link: USB 2.0





Manufactured by:



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