ZONESCAN 800®

LEAK NOISE LOGGER

The worlds first leak noise loggers to contain a correlation feature.

How does Zonescan-800 work?
Deployed throughout the water distribution network at regular intervals (often attached to valve spindles or fire hydrants via the integrated magnetic base), the Zonescan-800 'leak intelligence units' continuously monitor and analyse noise characteristics within the distribution system. They detect and identify the presence and location of a leak. Once in range of a Zonescan-800 logger, a patrol operator will receive automatic notification from the systems voice embedded host software, first identifying the unit, before announcing the presence or probability of a leak. If audible confirmation of the leak noise is desired, the operator can, at any time, listen directly to the digitally transmitted leak noise from his vehicle without the need for any physical connection with the loggers.

Once Zonescan has confirmed the presence of a leak, the operator can select a neighbouring unit and pinpoint the precise position of the leak between the two units, without ever leaving his vehicle. The data retrieved from each unit is automatically archived in the Zonescan database and can be used to provide detailed reports for repair teams or a total historic analysis for future distribution system improvement policies. The data can also be integrated with GPS, GIS operating systems or map to Google Earth.

A Fully Programmable Acoustic Logger
ZONESCAN 800 loggers can be individually or collectively programmed to suit each and every different location and environment. The 'industry standard' setting of 02:00am to 04:00am at 3 second sampling is easily achieved as Zonescan can log up to 23 hours and 59 minutes at any sampling rate from 1 to 180 seconds. These results are then presented in an easy to read format by the Windows based host software.
By utilising longer recording periods combined with rapid sampling, the ZONESCAN 800 equipped leakage engineer eliminates the phenomenon of “ghost leaks” and the considerable time wasted attempting to pinpoint leaks that don't exist.

The Smallest, Robust & Highly Portable Logger
At only 115mm high, with a flexible carrying handle that houses the aerial, and with an all round alloy casing, the ZONESCAN 800 logger is the smallest, lightest and most robust logger available. Weighing less than 0.4kg each, ZONESCAN 800 loggers are easily transported and deployed by one engineer with 40 loggers fitting into one case.

Logged results are displayed in the software database as a 'Project Table'.
Each result is given as a “Leak Value” between 0 and 100 for initial interpretation. This Leak Value is determined by the level and occurrence of the logged decibel readings. The operator sets the 'Leak Value threshold' within the host software. This determines whether the result is indicated in red (caution, probable leak), orange (possible leak) or green (no leak). The same threshold is also used for triggering the audio warnings if required.