

SePem® 150 – Radio noise loggers

The principle of stationary noise logging

The duration of time that water leaks from the distribution network has a significant influence on “real water loss” and “non-revenue water” calculations. The goal is to quickly identify water leaks to reduce the dollars lost, reduce the impact on non-revenue water calculations, be efficient, be good stewards of the environment, and reduce potential property damage. This goal can be achieved with **SePem® 150** loggers.

In addition to conventional leak detection survey methods, **SePem® 150** loggers are an effective, permanent monitoring tool to quickly identify leaks that may never reach the surface. With its ease of reprogramming and versatility, the **SePem® 150** loggers can also be redeployed to other locations for shorter-term leak detection surveys. This process is often referred to as “lift and shift”.

With the aid of the **SePem® 01 Master**, the user establishes listening times, frequency and duration, alarm levels and “Patrol Times” for the collection of data. The “listening times” are typically programmed for periods during which flow and traffic noise are at their minimum level. “Patrol Times” are typically set for “regular working hours” eliminating the need for overtime.

The compact design of the **SePem® 150** enables the logger to be placed in valve boxes, meter pits, and on unusual contact points. The highly sensitive microphone enables programmed monitoring of distances up to 1,600 linear feet of pipe between loggers. Spacing of the logger is dependent on the pipe size, pipe material, service density, and contact points available.

The **SePem® 01 Master** is portable and can be carried, or placed in the vehicle mounting bracket, while patrolling for data collection.

During patrol, the result is both an audible and visual “leak/no leak” indicator, substantiated by two pieces of critical leak detection data—“minimum noise level” and “noise consistency”. Data results are cataloged by physical location, logger, patrol, date, and can be easily archived for comparison with future data. One **SePem® 01 Master** can accommodate up to 500 **SePem® 150** loggers.



SePem® Master Communicator for data backup and visualisation

The **SePem® Master** Communicator software is freeware, which allows you to display the data managed on the **SePem® 01 Master** directly on a PC. The patrol lists are transmitted directly after connection and saved in a database. In logger lists you can directly access and easily manage measurements from the individual **SePem®** noise loggers.

