

Leak Detection



The M2 Water Meter Radio Transceiver provides a flexible leak detection tool which allows configuration for any type of water meter register or application.

Description

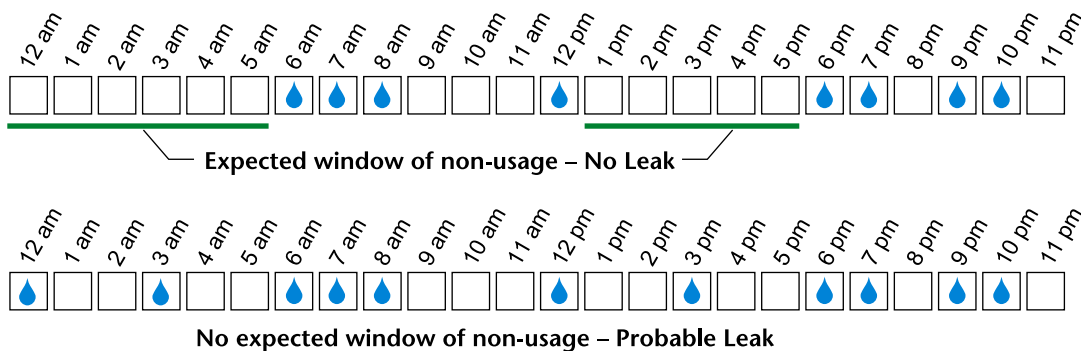
The leak detection function looks for a leak by monitoring expected durations of non-usage. If water is near-continuously used in these expected non-usage periods, a leak is probable. The function allows the user to specify the duration of non-usage and the length of days to sample. This configurable leak window and periods allow the leak detection function to operate on lower resolution (i.e. 1000G or 100ft3) registers. Furthermore, the radio's real-time clock allows aggregate meter comparisons for leak and water balance studies.

Set Leak Window

- Number of consecutive periods of consumption

Set Leak Period

- Length (in days) that the radio should look for the pattern. Lower resolution registers require longer sampling.



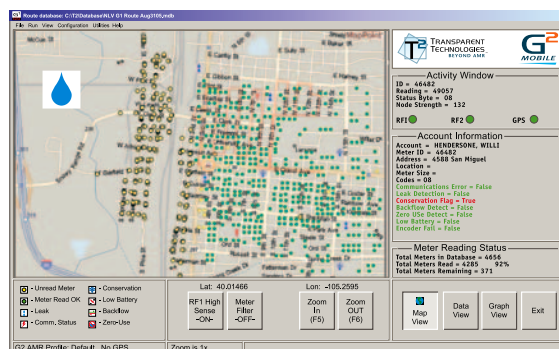
Operation

The radio monitors consumption continually. If the leak conditions are met, the radio sets a flag indicating a leak has been detected and transmits the flag with every transmission. The G2 Mobile System displays an icon for the meter indicating the possible leak and also passes this information to the Data Center or the billing system. A datalog can be downloaded showing the consumption pattern of the leak.

Measurement



Notification



Analysis

