

# Resilient Building Toolkit Adaptation Measures Factsheet

## Name and description of measure: Water leak detection system

A leak detection system is used in buildings to help detect water leaks and to prevent the loss of property from water damage. These are various leak detection systems on the market:

- Flow based systems detect the flow of water passing through a pipe, and can automatically switch off the water should a leak occur.
- Sensor based single-zone systems are for water leak detection for individual areas where there is presence of unwanted water.
- Sensor based multi-zone systems are used for large areas or multiple rooms and can be monitored using a single alarm panel with a multi-zone capability.

## Cost of measure (high, medium or low):

Medium to high depending on the building size and the model of the detection unit.

## Pros and Cons:

### Pros

Can save money caused by undetected leaks.

Helps meet BREEAM WAT03 water detection and prevention requirements.

Can be used in any building.

### Cons

Initial installation and start up can be expensive.

Software updates can be expensive.

## Effectiveness of measure (high, medium or low):

Medium to high

## Photo:



## Case study and contact:

University of Winchester has extensive experience of using environmental management systems to identify water leaks, contact Mat Jane, Energy and Environment Manager.