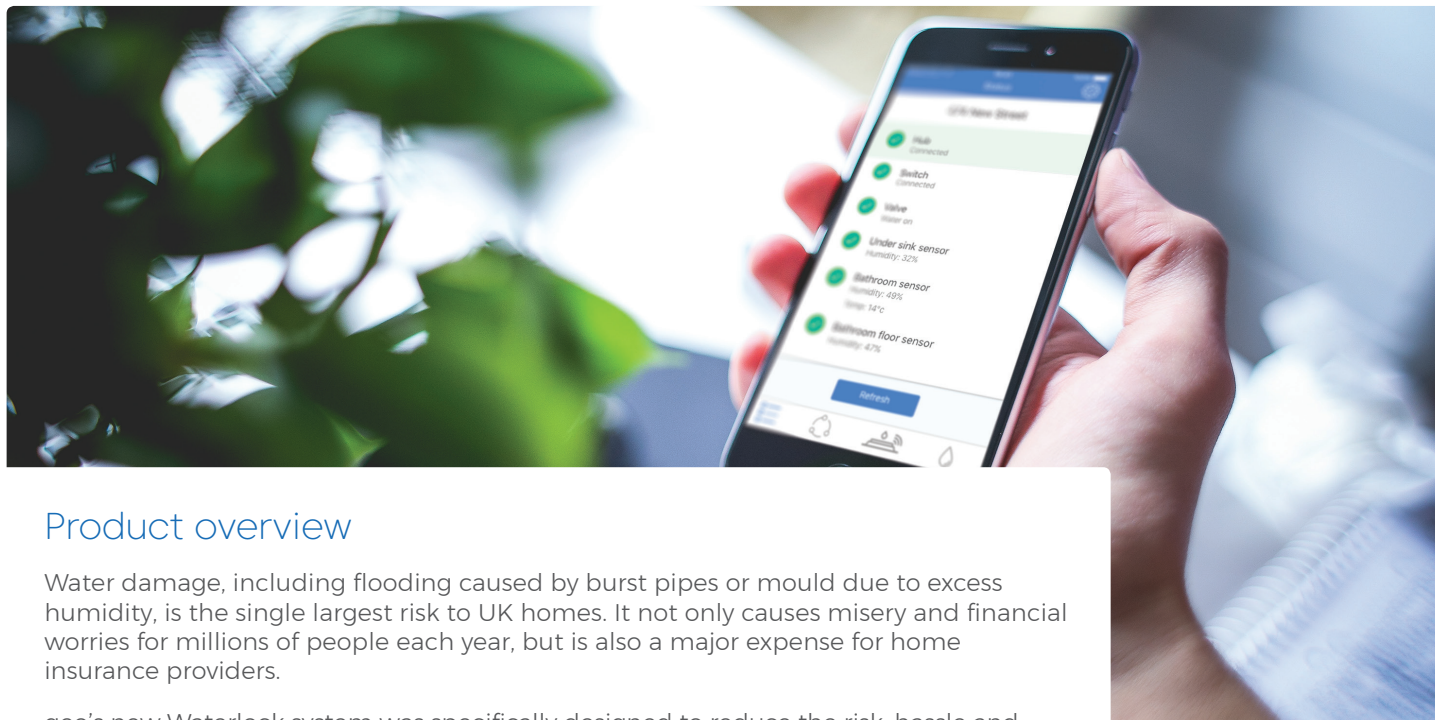# waterlock™
## Connected leak detection system

## Product overview

Water damage, including flooding caused by burst pipes or mould due to excess humidity, is the single largest risk to UK homes. It not only causes misery and financial worries for millions of people each year, but is also a major expense for home insurance providers.

geo's new Waterlock system was specifically designed to reduce the risk, hassle and expense of water damage claims for insurance companies and their customers.

Waterlock's innovative technology will reduce escape of water losses by detecting standing water, excess humidity and freezing conditions. Unlike most systems on the market today, it not only detects risk, but also offers the ability to instantly shut off the mains water supply. Combined with an intuitive and easy to use app, Waterlock's early leak detection gives homeowners peace of mind and control of their water whether they're at home or away.

## Facts & Figures

- The insurance industry pays out £2.5m every day to customers for escape of water claims.[1]
- The 'Big Chill' between October 2010 and February 2011, caused damage to as many as 3 million homes.[2]
- Typical cost of household damage caused by burst pipes averaged up to £7,000 during that cold spell, but in some cases costs were significantly more.[1]
- Less than half of the cost of escape of water claims in the UK by consumers is reimbursed by their insurers.[3]
- Only 18% of UK consumers close the mains pipe and the inflow to the washing machine before they go away.[3]

## System components

- **Valve and Valve Controller**
- **Sensor (Temperature, Humidity and Water)**
- **Switch**
- **Hub**
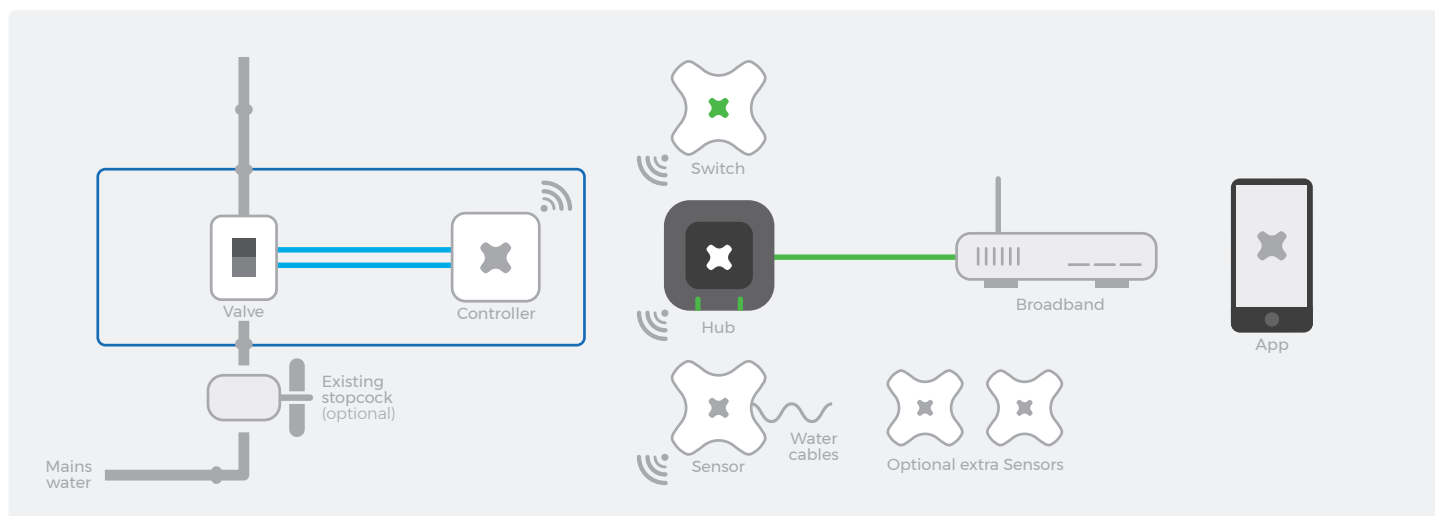- **App (iOS and Android)**



| Valve | Hub | Switch | Sensor |

# Key features and benefits

### Detection and action

The ability to not only detect leaks, but to take mitigating action and close the Valve automatically. Leaks can be detected by the Sensor, either by the presence of standing water, or an increase in the humidity level. Users can remotely open and close the Valve using the mobile App.

### Customisation

Waterlock can be adapted to specific requirements. The system supports multiple quantities and types of peripheral devices through use of combined sensors and remote switches. This allows the user to optimise both detection and control capabilities within the home.

### User-friendly App

Allows users the ability to simply and remotely manage their home's water supply. The App also provides notifications at the first sign of a leak, change in humidity or temperature.

- Valve control to turn water on or off
- System status reporting and control
- App / SMS / Email notifications
- 'Circle of Users' allows system access to multi tier accounts (landlords / tenants /associations etc

### Proven technology

Developed by geo, an experienced smart home solutions company with over 3 million devices installed. The system includes the WRAS approved Valve, which has been installed in over 1 million homes to date.

### Long range communication

868MHz RF ensures a robust, secure and long range connection between components in the home. This enables the system to work in large homes, properties with outbuildings or other environments where higher frequency wireless technologies such as Wi-Fi do not perform well.

### Data services

Has the ability to supply data directly to insurance partners or property management companies (subject to end user permission). This enables the introduction of innovative bundles of Connected Home technology with insurance policies or managed services, to the mutual benefit of the supplier and consumer.

### Cost effective

Developed with cost effective components that are easy to install and support. It uses consumer broadband for data transmission, and capitalises on extensive experience of geo in providing high-volume practical solutions to the market that deliver a great return on investment.

### Installation

Professional installation is strongly recommended because the Waterlock Valve connects directly to the home's main water supply.

Reference:
1. Association of British Insurers.
2. Churchill Home Insurance.
3. TheConsumerView GmbH, Water Security Survey, Jan '17).

WRAS
APPROVED PRODUCT

GO-000334-DS-Waterlock