

# Case Study



## The filling station of the future

Britain's first electric car forecourt in Braintree, Essex has some excellent green credentials including the use of the Aquitrone Water Monitor system for major water leak detection included within the M&E design to help achieve credits for the BREEAM green buildings assessment scheme

Aquilar were able to deliver a solution using the Aquitrone AT-WM 'Water Flow Monitor' using a programmable controller together with WRAS approved water meters and water shut-off solenoid valve. This helps designers and building owners achieve credits to be fully BREEAM compliant for a WAT03 major leak detection system as well as providing peace of mind. The site is monitored for leaks or excessive water use. The addition of the solenoid valve ensures the water is shut-off until the alarm has been investigated.

## What is BREEAM ?

BREEAM is the world's leading and most widely used environmental assessment method for assessing, rating and certifying buildings and recognises the value in higher performing assets across the built environment lifecycle. It is also known for its green building credentials addressing all aspects of environmental sustainability, covering 10 main categories including water.

BREEAM Water is included in new construction, BREEAM in Use along with Refurbishment and Fitout. It encourages sustainable water use in the operation of the building and site. Issues in this section focus on identifying means of reducing potable water consumption (internal and external) over the lifetime of the building and minimising losses through leaks.

## What is a credit awarded for?

A credit is awarded for a leak detection system which is capable of detecting a major water leak on the mains water supply within the building as well as between the building and the utilities water meter at the site's boundary.

## About Gridserve

This first all-electric forecourt is part of a network of more than 100 new sustainable energy powered Electric Forecourts® which GRIDSERVE are developing across the UK. GRIDSERVE develop, build, own and operate solar energy and battery storage solutions for critical power

infrastructure and it is planning to support the UK's e-mobility revolution. The site will offer EV charging as part of a world-class customer experience including retail outlets, a wellbeing area, business lounge and children's area.

The Braintree site has the capability to support all types of electric cars as well as heavy goods vehicles.



## About Aquilar

Aquilar are a manufacturer and distributor of leak detection equipment providing solutions for detecting water, fuel, chemical and refrigerant gas leaks. It provides a wide range of world-leading systems for leak detection in critical industrial and commercial environments.

Aquilar also provides a dedicated UK-based service with installation design and product support.

Aquilar have personnel with extensive experience and a vast knowledge of the industry since its inception.