

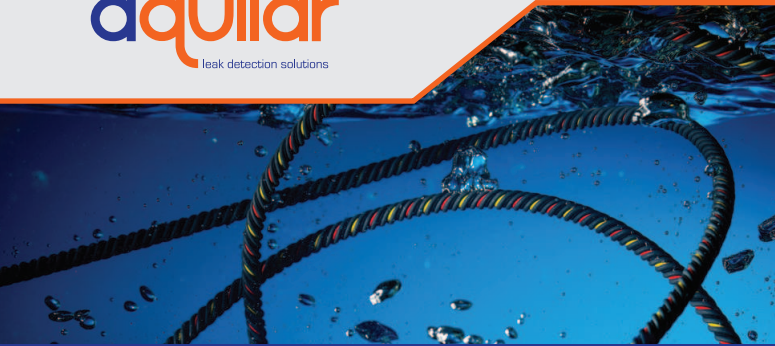
**aquilar**  
leak detection solutions

# Specialists in Leak Detection Solutions



Reliable leak detection systems since 2000  
5 year warranty on all our products

## Company Profile



## World-leading leak detection

Aquilar are a world leader in supplying the very best liquid leak detection solutions for the construction, industrial and environmental markets.

## A global approach

From a UK-based headquarters projects can be supported anywhere in the world, either directly or via a carefully selected distribution network.

Whether it's superior products or turnkey services, the right solution is available, working directly with partners to custom design systems to meet any requirements.

## Supplying innovative solutions

Offering innovative solutions for water, fuel and chemical leak detection, supplying products to meet BREEAM water monitoring, major leak detection and leak prevention credits as well as CIREG requirements. Bespoke design of leak prevention solutions for refrigerant gas leak detection (air conditioning) are also available – all using market-leading products from the AquiTron, EcoLeak, AquiWave, AquiNet and TraceTek brands.



# Aquilar at a glance

Aquilar are a distributor and manufacturer of leak detection equipment providing solutions for detecting water, fuel, chemical and refrigerant gas leaks.

## Providing world-leading systems for leak detection in critical industrial and commercial environments

Founded in 2000, they soon became the number one partner for the world-leading TraceTek leak detection system, formally invented and manufactured by the Raychem Corporation.

Finding that one manufacturer did not offer a solution for all applications, a customer focus program was implemented, speaking with engineers and customers to establish the market gaps, enabling the correct product design focus. From this, a new range of products under the AquiWave, AquiTron, AquiNet and EcoLeak brands were developed.

Research and development continues today with new products and solutions created to solve customer challenges in order to meet changing standards within the building industry.

Aquilar offers superior service levels, including step-by-step guidance to deliver the most effective solution for each application. A team of dedicated professionals can assist with design support, schematics, technical submittals and quotations through to the delivery of the leak detection system. Full product support is offered ensuring any project is completed to the highest standards.

A network of professional partners install Aquilar leak detection products globally to ensure all systems are installed and maintained to the required specifications.

The large UK based central warehouse in West Sussex allows unparalleled stock levels, providing off-the-shelf 'next day' delivery for even the largest projects.

## Design, application and technical support for all applications

With vast experience in design support and the supply of all types of leak detection systems, including market areas such as data centres, office buildings, banks, schools, hospitals, fuel storage facilities and laboratories. Aquilar have the right solution for your leak detection needs.

## Our brands

# What we offer



## Alarm systems for leak detection

**Commercial, industrial and residential buildings**



## Water detection, water monitoring, water shut-off

- Data centre, server and hub rooms
- Floor and ceiling void pipework
- Tea point and vending areas
- Water coolers
- Pools, hot tubs and associated plant equipment
- Plant, pump and tank rooms
- Galleries and museums
- Bathrooms and toilets
- Utility cupboards/rooms
- Kitchens



## Fuel and oil detection

- Generator and fuel tank rooms
- Fuel storage facilities and refineries
- Tank bunds, sumps, pump bays and water outfalls
- Above and below ground pipelines
- Double-skin tanks and dual wall pipes



## Chemical sensing

- Process pipework and tanks
- Wet benches
- Valve boxes
- Tools (processing units)
- Utility trenches/corridors
- Dual wall pipes



## Refrigerant gas detection

- Hotel rooms
- Server and hub rooms
- Offices and meeting rooms
- Machine and plant rooms
- Bedrooms
- Chiller plant rooms
- Classrooms
- Hospital wards/rooms
- MRI scanner rooms

# Alarm panels

## Digital pinpoint location and addressable alarm panels



Aquitrone and TraceTek digital pinpoint systems for addressable high accuracy leak detection and location – minimises disruption and down time. By combining large areas and multiple floors, fully networked coverage for all types of rooms is possible.

### The range includes:

- AT-APA, TS-12, TTDM-128, TT-SIM

### Key features:

- Independent sensing circuits (max. 250 zones)
- Addressable leak location, accurate to +/-1 metre
- Detects cable continuity faults
- Areas and rooms can be named to simplify leak locating (regions/tagging)
- Dynamic location drawings and maps
- Can detect multiple, simultaneous or spreading leaks
- Monitors for water, fuel oil, chemical and refrigerant gas leaks in several different rooms and floors at any one time
- Multiple connection methods for external equipment, volt free relays, BACnet, Modbus TCP/IP SNMP trap

## Aquitrone zonal alarm panels



Aquitrone single and multi-zone systems. Fast reacting leak detection alarm panels for use where individual relay control is required for each protected area or the additional expense/complication of an addressable system is not feasible/required.

### The range includes:

- AT-SZA, AT-MZA, AT-ZAP

### Key features:

- Independent sensing circuits (max. 12 zones)
- Up to 100 metres or 10 probes per zone
- Panel options are available with 1, 2-8 and 12 zones
- Options on individual leak and cable break LED display or touch screen
- Monitors all Aquitrone, TraceTek sensing cables and probes including refrigerant gas sensors
- Water shut-off valves can be connected to each zone
- All panels have volt-free leak and fault relay outputs

## EcoLeak zonal alarm panels



The EcoLeak range of panels have been designed for use in small and medium sized areas within residential or commercial buildings to provide cost-effective leak detection.

EcoLeak panels alert personnel to any detected leak via both audible and visual alarms. Sensors are available for detecting water, refrigerant gas and hydrocarbon fuels.

### The range includes:

- Eco-1, Eco-6, Eco-24

### Key features:

- Independent sensing circuits (max. 24 zones)
- 1, 6 and 24 zone panels
- Up to 4 probes or 30 metres of sensing cable per zone
- Individual leak and cable break LED display
- All panels have volt-free leak and fault relay outputs
- Eco-1 and Eco-6: designed to work with all EcoLeak, Aquitrone and TraceTek sensing cables and probes
- Eco-24: designed to work with all EcoLeak sensing cables and probes
- The Eco-6 includes built in battery back-up

## AquiWave wireless multi-zone system



AquiWave is a compact wireless leak detection system.

The system is suitable for installation in areas where traditional wired systems may not be suitable.

The system has been designed to be simple and robust using industry proven secure wireless technology. Its wireless flexibility enables it to be used as a permanent or temporary installation within construction sites, apartments, galleries, museums and storage areas.

### Key features:

- Sensors available for water, fuel and refrigerant gas
- Based on proven fire alarm technology that complies with EN54 Part 25
- Wirelessly control valves, beacons and sounders
- Expandable – up to 240 devices on a single system and link up to 4 systems for larger projects
- Battery back-up as standard

## Major water leak monitoring systems to help achieve BREEAM Wat 03 and Wat 02



The Aquitrone Water Flow Monitor, 'AT-WFM', is designed to meet the requirements of BREEAM Wat 03 and Wat 02.

The controller provides visual and audible alarms when the flow volumes exceeds the user adjustable limits. This, combined with a solenoid valve, can isolate a potential leak and limit any damage.

### Key features:

- Touchscreen display for easy setup/programming
- Programmable for different flow volumes and time periods to determine alarm levels
- Different settings between the building being occupied or unoccupied can be programmed
- Automatic setting of alarms levels via entry/alarm system or key switch
- Integrated pulse repeater for monitoring and BMS (Wat 02)
- Built in battery back-up

## WC Water shut-off systems to help achieve BREEAM Wat 03



The Aquitrone Occupancy Flow Controller, 'AT-OFC', is a flow control device that isolates the water supply to WCs, kitchens, tea points and other areas when they are not in use, limiting the risk of water wastage and damage from undetected water leaks.

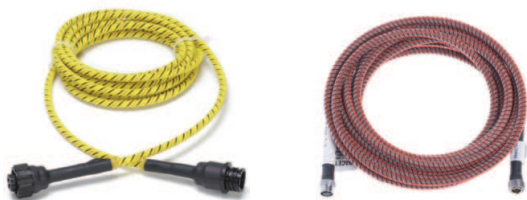
Designed to help achieve BREEAM Wat 03 part 2. The AT-OFC can either connect to Aquilar's range of PIR sensors and WRAS-approved water solenoid valves or is compatible with third party PIRs and valves.

### Key features:

- Reduces the risk of flooding due to accidental damage or vandalism
- Avoids water wastage if taps are left running
- Ceiling or wall-mounted PIR detects the presence of a person entering the area and opens the solenoid valves
- Auxiliary relay contacts are available to switch on/off lighting or ventilation in the same room
- Can be interfaced with an Aquitrone or EcoLeak panel

# Sensing devices & accessories

## Sensing cables for water, fuels and chemicals



TraceTek and EcoLeak liquid sensing cables can report the location to the nearest meter or zone when connected to an alarm panel.

Sensing cables can be distributed to provide coverage of the whole area or around critical equipment to detect a leak within seconds.

There is a sensor suitable for most liquids ranging from water, fuels, solvents, aqueous chemicals and strong acids.

### Key features:

- Detects the presence of a leak at any point along their length
- Factory terminated lengths with pre-installed connectors
- Dries within seconds
- Fast accurate detection
- Cables available for internal and external use
- Hydrocarbon sensing cable ignores water
- All cables can be monitored by pinpoint location or zonal panels
- Rugged construction for long life and resistance to abrasion and corrosion
- Certified to UK CA, UL, FM, Baseefa, IECEx

## Sensing probes for water, fuels and chemicals



A broad range of Aquitrone probes and point sensors, widely used within commercial and residential buildings to detect water and other conductive liquids.

Optical sensing probes can detect both conductive and non-conductive liquids such as diesel, kerosene, machine coolants, hydraulic oils and many more.

### Key features:

- Floor and wall mountable, can be located in a drip tray, attached to a toilet WC cistern or screwed into a dual wall pipe or tank
- Suitable for harsher environments where a sensing cable wouldn't be desirable
- Stainless steel sensing elements to eliminate the chances of corrosion
- Fully waterproof probe available for external roof gully, gutter and drainage monitoring applications
- For use with any of the TraceTek, Aquitrone and EcoLeak alarm panels

## Sensors for Hazardous area certification, ATEX, SIL



TraceTek has a wide range of sensing cables and probes for fuels, solvents, aqueous chemicals and strong acids.

Certified for use within hazardous areas for commercial, industrial and environmental applications providing a complete intrinsically safe system.

Sensors can be located below ground to monitor pipe runs and below tank bases, above ground to monitor for leaks or spills within tank bunds or on concrete pump pads. They can also be located within water outfalls to monitor for fuel floating on water or fuel accumulating in low spots such as sumps or valve pits.

The probes react instantly to a thin film of fuel and can be reset to be reusable after cleaning.

### Key features:

- Certified to UK CA, UL, FM, Baseefa, IECEx
- Single and multi sensor systems
- Digital and zonal alarm options
- SIL2 controllers available
- TraceTek sensor available for most fuels

## Refrigerant gas leak detection sensors



A range of sensors cover applications within commercial and residential buildings. One of the main applications comes from the need to safeguard people in occupied spaces such as hotels, apartments, hospital rooms and offices.

Sensors are suitable for single to large multi-zone installations and can be either stand alone or connected to a central monitoring system or panel to meet the requirements of BS EN378:2016. Sensors and systems can also be used to help achieve F-Gas and BREEAM PoI 01.

### Key features:

- 15+ year sensor working life means low lifetime cost of ownership
- Immune to poisoning – the sensor is not affected by hairspray, deodorants or other non-target gases
- Simple installation, set-up and commissioning as no calibration required
- Compact UK single gang electrical socket size for an aesthetically-pleasing, non-intrusive appearance
- Multiple alarm outputs, audible and visual, centralised and BMS monitoring
- Mains and low voltage power options

## Water shut-off



Water shut-off is an important element of a leak detection system.

An electronically operated valve connected to one of our alarm panels can be used to shut-off and isolate the water as well as limit the amount of damage and disruption when a leak alarm occurs.

The range includes WRAS-approved valves for mains water systems.

Manufactured in brass, stainless steel and plastic, they are simple to wire into a panel or via a BMS/controls system.

### Key features:

- 15 to 40mm pilot operated solenoid valves in normally closed (fail safe) and latching configuration
- 15 to 50mm ball valves suitable for flow and return and low pressure systems
- 50 to 150mm butterfly valves
- For use with: AquiTron, TraceTek, EcoLeak and AquiWave water leak detection systems

## Remote monitoring and system accessories



To compliment the range of panels, there is a wide selection of accessories and auxiliary devices used to enhance the effectiveness of a leak detection system.

They have various roles to play in helping to provide an early warning benefit and the potential to limit any damage caused by a leak.

These include relays, remote alarm panels, speech dialers, beacons, sounders and more.

For larger applications, the Aquinet fieldbus central monitoring system can be used with 100s of sensors for a complete networked system.

### The range includes:

- Remote and central monitoring alarm panel
- Sounder/beacon
- Speech auto dialer (mobile phone alerts)
- Relay buzzer unit
- Battery back-up unit
- Ethernet interface controller (email notifications)

AquiTron AquiNet TRACETEK AquiWave EcoLeak

# Leak Detection Solutions

Detect leaks in your building • Protect your investment



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