

## Wireless Leak Alarm System

Product & Design Guide



Safeguard property and contents with a reliable and proven secure wireless system





## Looking After Assets

#### Museums & Galleries



### Historic Buildings



### The Threat:

Water leaks can be costly but can also cause irrevocable damage to paintings or historic museum pieces. Fittings may fail on ageing plumbing systems or air conditioning equipment may develop problems. Expensive fixtures and fittings in apartments can be damaged.

#### Luxury Apartments & Houses



#### The Solution:

AquiWave wireless leak detection can easily be fitted into areas without the need for cabling, giving flexibility for sensors to be easily repositioned as exhibitions change.

It can be retrofitted without causing any damage to existing infrastructure which normal wired systems may impose on.

AquiWave (

## Keep Things Working

#### Data Centre & Comms Rooms





Plant & Tank Rooms



### The Threat:

Water damage to property and equipment resulting in loss of revenue due to downtime and costly repairs.

### The Solution:

AquiWave wireless leak detection can be quickly and easily fitted and interfaced with most environmental systems, providing full protection using its own standalone network. Does not interfere with incumbent systems.

### **AquiWave**

## **Typical Applications**



### Kitchen & Utility Rooms

Sensors installed to cover leaks from washing machines, dishwashers, plumbed fridge/freezers, sinks etc.



#### Bathrooms & Toilets

Detect overflows from cisterns, bath/shower trays as well as leaks from associated hot and cold water or drainage pipes.



### Plant Rooms & Tank Rooms

Detect leaks from plant equipment such as pump sets, boilers or water storage tanks.



#### Data Centre & Comms Rooms

Detect leaks from air conditioning units and water pipes passing through, adjacent to or above sensitive areas.



Tea & Coffee Points, Water Coolers

Monitor leaks from sink pipework, vending machines and dishwashers etc.



Diesel Generators & Day Tank Rooms

Hydrocarbon sensors can protect against leaks from generators, fuel pipework or storage tank failure.



### The Right Time For AquiWave

### When Is Wireless The Right Choice?

There will obviously be occasions when it's the only answer as running cables may be difficult – such as listed buildings where the infrastructure cannot be changed.

Wireless gives a 'flexible & adaptable' system. With minimal installation requirements, it can be easily installed with low impact to its environment and, if required, moved to meet changing coverage requirements with reduced building works.

AquiWave is a compact wireless leak detection system designed for use in commercial or residential premises to protect high-value assets.

Simply add devices to build the system required. The AquiWave system is suitable for installation in areas where traditional wired systems may not be suitable or where a wired installation would cause too much disruption. It is almost a completely wireless system with only the panel requiring wired connection to 230Vac.

AquiWave is a premium bespoke water and fuel leak detection solution available from stock. A wireless survey is strongly recommended to be carried out on all sites prior to the installation of a system. Please contact Aquilar for details.

The AquiWave system has been designed around proven Wireless Fire Alarm systems that complies with EN54 Part 25. Requires no specialist software for setting-up or programming.

It is simple to install and can easily be taken out and relocated making it ideal for temporary installations such as partly complete construction sites, apartments, galleries, museum and storage areas.



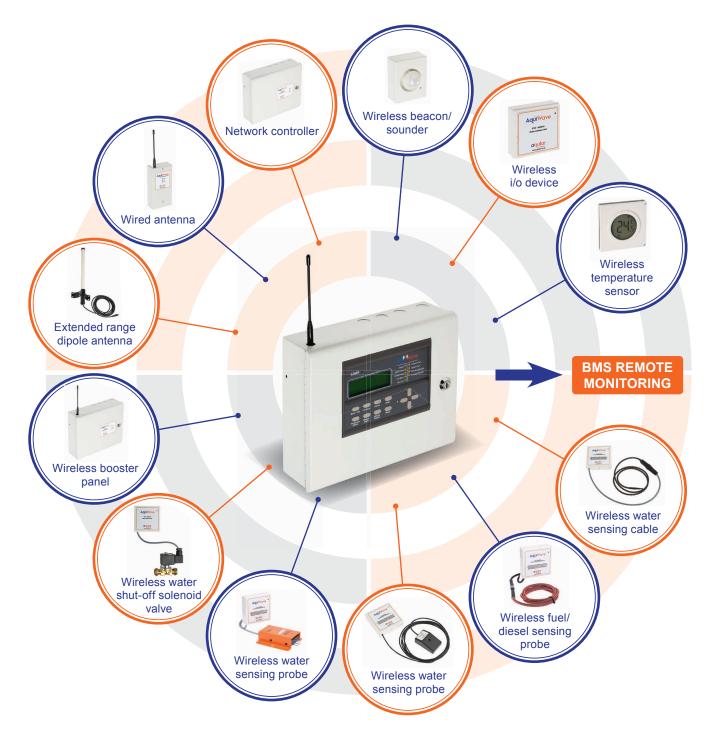
#### Why Choose A Wireless Water Leak Detection System?

- AquiWave offers a robust wireless Water\* leak detection system
- Based on proven fire alarm technology which has been tested to rigorous standards, far exceeding standard Wi-Fi systems
- · Reduced installation costs
- The wireless system creates its own mesh network doesn't rely on, or interfere with, incumbent Wi-Fi systems
- Full real-time duplex communication between devices and panels for total monitoring of all functions, including battery life and two-way control
- Full real-time duplex communication (sensor and panel have two way communication for improved monitoring, control and communication)
- · Wirelessly control valves, beacons, sounders etc.
- · Expandable up to 240 devices on a single system
- · Battery back-up as standard. Retains full functionality

\* fuels, oils and chemicals can also be detected



# System Components



- · Wide range of sensors to cover most applications
- · Reduced cabling saves both labour and materials costs
- · Easy to add or remove devices

- 255 areas and up to 240 devices can be connected on one system
- Four systems can be connected together to cover multiple areas or buildings



## **Technical Ordering Information**

PANELS & TRANSMITTERS
FANELS & TRANSMITTERS

PANELS & TRANSMITTERS	\$		
	AquiWa	ve Wireless Control Panel	
	Code	Cat No.	Description
	6700	AQW-RCP	AquiWave Wireless Control Panel, 240 devices, 230Vac
	3700	AT-BAT	Replacement Battery 12 Vdc, 7Ah
	6775	AQW-SA	AquiWave Replacement Stub Antenna
5555 Tr		Fully addressable for 240 devices within 20 zc	ones
		Programmed via 12-button keypad, USB mem	nory stick or QWERTY keyboard
		Secure protocol with complex error checking	
		Battery backed-up for 72 hours' operation	
	AquiMa	ve Wireless Booster Panel	
1	Code	Cat No.	Description
	6710	AQW-RBP-1	AquiWave Wireless Booster Panel, Up to 240 devices, 230Vac
-	6750	AQW-NCT	AquiWave Network Controller, for expanding network sub systems
	6755	AQW-NCM	AquiWave Network Communicator, links network sub systems
and the second se	3700	AGW-NGM AT-BAT	Replacement Battery 12 Vdc, 7Ah
	3700		
		Wireless booster extends the wireless range of	a system
		Up to 7 boosters per system	and the second data
		Mains powered with battery back-up for 72 ho	
1	AquiWa	ve Wired Intelligent Antenna	
	Code	Cat No.	Description
	6740	AQW-IA	AquiWave Wired Intelligent Antenna, Up to 4 per AQW-RCP or AQW-RBP
ARCTIC		Wired antenna extends the wireless range of a	a sym
		Up to 4 wired intelligent antennas per panel or	
у.		Powered from the AquiWave central panel	
		s Transmitter	
Aquiwave .	Code	Cat No.	Description
	6715	AQW-RTX	AquiWave Wireless Transmitter, c/w battery
quila		Wireless transmitter for sensor connections	
		Up to 5-year battery life	
		Audible and visual local indication	
	Wireless	Interface I/O Unit	
	Code	Cat No.	Description
AquiWave	6735	AQW-IO	AquiWave Interface i/o Unit DC
Con American American American	6736	AQW-IO-INT-230Vac	AquiWave 230Vac, 5A interface switch, for use with AQW-IO
aquilar		Wireless i/o device with built in volt free relays	s for remote valve control
		Audible and visual indication of operation	
		Can be assigned to specific sensing devices of	or areas of the building
WATER SENSING			
	Water se	ensing cable, complete with male connector	
	Code	Cat No.	Description
	6600	AT-ECO-SC-1	EcoLeak Water Sensing Cable - 1m
	6605	AT-ECO-SC-3	EcoLeak WaterSensing Cable - 3m
	6610	AT-ECO-SC-5	EcoLeak WaterSensing Cable - 5m
		Fast-drying and reusable water sensing cable	-
		Three fixed lengths available up to 5 metres	
		Uses fluoropolymer materials for long life	
		ve Leader Cables	
	Code	Cat No.	Description
	6045	AT-EL-LC-1	Aquitron EcoLeak Leader Cable - 1m
× ×	6050	AT-EL-LC-3	Aquitron EcoLeak Leader Cable - 3m
	6055	AT-EL-LC-5	Aquitron EcoLeak Leader Cable - 5m
	6060	AT-EL-LC-10	Aquitron EcoLeak Leader Cable - 10m
	6065	AT-EL-LC-20	Aquitron EcoLeak Leader Cable - 20m
		Modular leader cable with plastic connector us	sed to connect the water sensing cable to the AQW-RTX
		Five fixed lengths available up to 20 metres	
		LSZH rated cable	
		ter Broke Courses And Include	
		ter Probe Sensor - 3m leader cable	Decemination
	Code	Cat No.	Description
	4280	AT-MPS-R	EcoLeak Mini Water Probe Sensor - 3m leader cable
		Cost-effective low point water sensing probe	
		Compact design for where space is limited	



# **Technical Ordering Information**

Water Detection Probe with Terminal Strips, Floor & Wall Mo



Code	Cat No.	Description		
3500	AT-PROBE-TS	Water Detection Probe with Terminal Strips, Floor & Wall Mounting		
	Special purpose low point water sensing pro	be		
	Up to 4 probes can be daisy-linked together			
	Floor or wall mounted suitable for many type	es of applications		
TunDish	Water Sensor			
Code	Cat No.	Description		
2436	AT-TDWS	TunDish Water Sensor		
	Point sensing probe to detect water within a	Tundish		
	Clipped within a tank or vessel to detect wate	er at a high point		
		-		
WC Cistern Overflow Sensors				
Code	Cat No.	Description		
2431	AT-350A	WC Cistern Overflow - Standard WC top entry c/w spade connector		
	Fitted within a WO sistem to detect swellowi	in a contract of the set		

431	A1-350A	WC Cistern Overnow - Stand
	Fitted within a WC cistern to detect overflowing w	vater level
	Can be used with both plastic concealed or china	a cisterns



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Drip Tray	Drip Tray Water sensing Probe				
Code	Cat No.	Description			
4780	AT-DTP	Drip Tray Probe including Stainless Steel Bracket (2m lead)			
	Designed to hook over the side of a drip tray				
	Will detect water before it overflows				

#### **DIESEL & FUEL SENSING**



Fuel (Di	Fuel (Diesel) sensing cable with pre-fitted connectors						
Code	Cat No.	Description					
2960	TT5000-1.5M/5FT-MC	Fuel sensing cable, 1.5 metre - with male/female connectors					
2970	TT5000-3M/10FT-MC	Fuel sensing cable, 3 metres - with male/female connectors					
2980	TT5000-4.5M/15FT-MC	Fuel sensing cable, 4.5 metres - with male/female connectors					
6727	AQW-MLC-MC	Leader cable, 3.5 metre - Connecting Wireless Interface Unit to fuel sensing cable					
6728	AQW-MET-MC	AquiWave Metal End Termination					
	Fuel sensing cable with pre-fitted metal connec	tors					
	Three fixed lengths available up to 4.5 metres						
	Special purpose AquiWave end termination						



Optical Sensor Oil and Non Aggressive Chemicals (re-useable sensing)					
Code	Cat No.	Description			
3540	AT-OPSEN	Optical Sensor for oil and non aggressive liquids, 12 Vdc			
3545	AT-OPSEN-RS	Optical Remote Sensor for oil and non aggressive liquids, c/w with 1mtr lead and 3/4" brass plug, 12 Vdc			
3675	AT-PSU-12-1	Power Supply Unit for OPSEN, 230Vac to 12Vdc)			
3690	AT-OPSEN-CBL	Cable for Optical Sensor (6 core cable - 50m reel)			
	Detects liquids within a few seconds				
Multi-purpose optical sensor for diesel, engine oil, fuels, coolants and many other liquids					

Quick to dry, clean and re-use

#### SUPPORTING PRODUCTS

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Wireless	s Beacon snf Beacon/Sound	r				
Code	Cat No.	Description				
6720	AQW-RS	AquiWave Wireless Sounder				
6725	AQW-RB	AquiWave Wireless LED Beacon				
6730	AQW-RBS	AquiWave Wireless LED Beacon/Sounder				
	Wireless sounder, beacon	Wireless sounder, beacon or sounder beacon with up to 5-year battery life				
	Can be assigned to specific devices or areas of the building					
	Adjustable volume up to 100dB					
Electron	nic digital thermostat with LC	D				
Code	Cat No.	Description				



Code	Cat No.	Description
6726	AQW-EDT	Electronic digital thermostat with LCD
	Wall-mounted wireless digital thermostat with LC	D and volt-free output to connect to a AQW-IO
	Setting temperature range 5-30°C, operating tem	perature range 0-45°C
	Uses standard AA batteries	
	Dimensions (mm) H84 x W84 x D35	



# **Technical Ordering Information**



Code	Cat No.	Description			
6745	AQW-EA	AquiWave Dipole External Antenna			
0745					
	High-gain antenna for improved wireless performance For use with both the main control or booster panel				
	Allows decentralisation from the pan				
	Allows decentralisation from the part	eis			
Jumper	Cable, 2 core, 100m Reel (No Connect	tors)			
Code	Cat No.	Description			
6118	AT-BJC-2C	Jumper Cable, 2 core, 100m Reel (No Connectors)			
	2-core jumper cable without connect	ors to connect AT-PROBE-TS to the AQW-RTX wireless transmitter			
	LSOH 0.5mm <sup>2,</sup> 2 numbered black co	ores. Max 300V			
Water SI	hut Off Solenoid Valves				
Code	Cat No.	Description			
6300	AT-V-NC-15	15mm (1/2") Brass Solenoid Valve. Normally Closed. Manual Override. 230Vac			
6301	AT-V-NC-22	22mm (3/4") Brass Solenoid Valve. Normally Closed. Manual Override. 230Vac			
6302	AT-V-NC-28	28mm (1") Brass Solenoid Valve. Normally Closed. Manual Override. 230Vac			
6303	AT-V-NC-35	35mm (1 1/4") Brass Solenoid Valve. Normally Closed. Manual Override. 230Vac			
6304	AT-V-NC-42	42mm (1 1/2") Brass Solenoid Valve. Normally Closed. Manual Override. 200Vac			
	Brass bodied WRAS approved (certi	ficate N. 1411048) pilot-operated diaphragm valve			
		ficate N. 1411048) pilot-operated diaphragm valve			
Mator S	Brass bodied WRAS approved (certi Fail-safe normally closed 230Vac val	ficate N. 1411048) pilot-operated diaphragm valve			
	Brass bodied WRAS approved (certi Fail-safe normally closed 230Vac val ensing cable hold down clips	ficate N. 1411048) pilot-operated diaphragm valve lves with manual release override			
Code	Brass bodied WRAS approved (certi Fail-safe normally closed 230Vac val ensing cable hold down clips Cat No.	ficate N. 1411048) pilot-operated diaphragm valve lves with manual release override Description			
<b>Code</b> 2610	Brass bodied WRAS approved (certi Fail-safe normally closed 230Vac val ensing cable hold down clips Cat No. TT-HDC-1/4	ficate N. 1411048) pilot-operated diaphragm valve lves with manual release override Description Hold Down Clips (adhesive backs) Water Sensing cable c/w glue - bag of 50			
Code 2610 2620	Brass bodied WRAS approved (certii Fail-safe normally closed 230Vac val ensing cable hold down clips Cat No. TT-HDC-1/4 TT-HDC-1/4-200-NA	ficate N. 1411048) pilot-operated diaphragm valve lves with manual release override			
Code 2610 2620 2625	Brass bodied WRAS approved (certii Fail-safe normally closed 230Vac val ensing cable hold down clips Cat No. TT-HDC-1/4 TT-HDC-1/4 TT-HDC-1/4-200-NA TT-HDC-1/4-100/TAG-25	ficate N. 1411048) pilot-operated diaphragm valve lves with manual release override			
Code 2610 2620 2625 2630	Brass bodied WRAS approved (certii Fail-safe normally closed 230Vac val ensing cable hold down clips Cat No. TT-HDC-1/4 TT-HDC-1/4 TT-HDC-1/4-200-NA TT-HDC-1/4-100/TAG-25 TT-HDC/TAG	ficate N. 1411048) pilot-operated diaphragm valve lves with manual release override			
Code 2610 2620 2625 2630	Brass bodied WRAS approved (certii Fail-safe normally closed 230Vac val ensing cable hold down clips Cat No. TT-HDC-1/4 TT-HDC-1/4 TT-HDC-1/4-200-NA TT-HDC-1/4-100/TAG-25 TT-HDC/TAG TT-HDC/TAG TT-HDC-1/2-NA-50	ficate N. 1411048) pilot-operated diaphragm valve lves with manual release override Description Hold Down Clips (adhesive backs) Water Sensing cable c/w glue - bag of 50 Hold Down Clips (adhesive backs) Water Sensing cable c/w glue - bag of 200 Hold Down Clips (adhesive backs) c/w glue (100 pcs) Warning Tags (25 pcs) Clips/Tags (15/5) - clips with adhesive backs (no glue) Hold Down Clips for Fuel Sensing cable c/w glue - bag of 50			
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AquiWa	AquiWave Survey Kit	
Code	Cat No.	Description
6760	AQW-SK	AquiWave Survey Kit
	Transmitter and receiver	init for testing wireless signal strength prior to installation

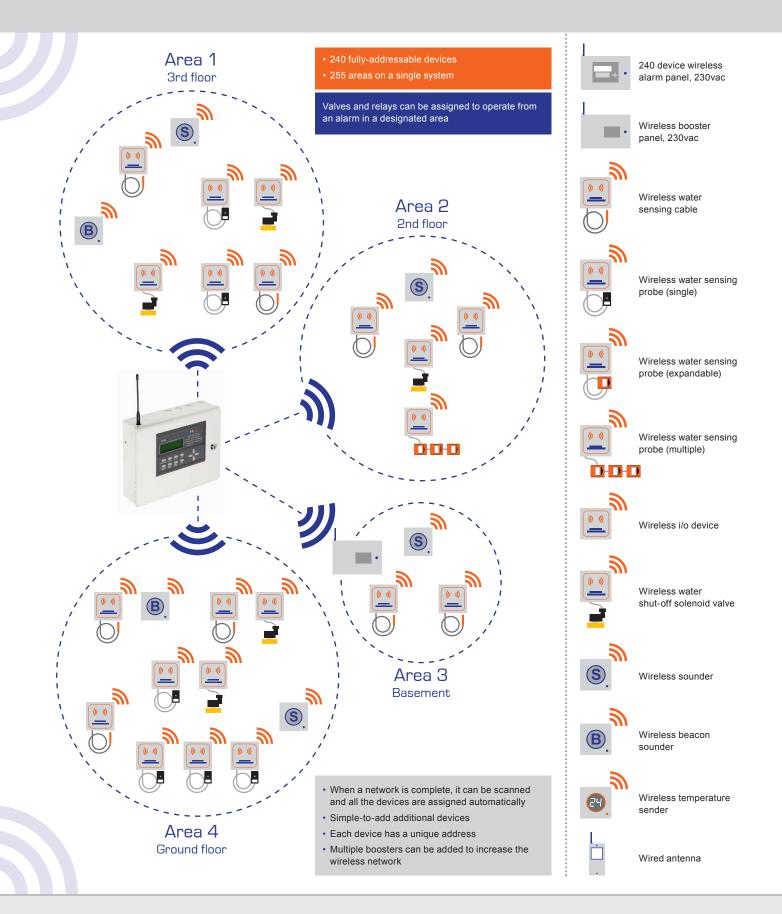


Replacement battery pack for all wireless devices

Up to 5 year battery life

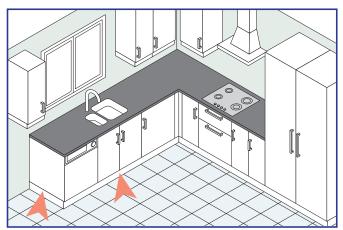


### System Overview



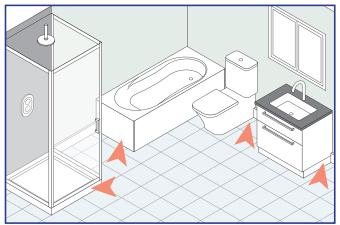


## AquiWave Design



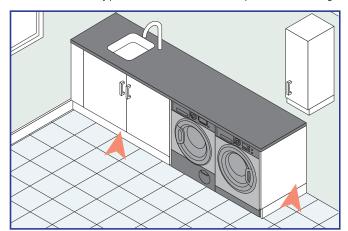
#### Kitchen Leak Detection

Water sensing probe or sensing cable below the threshold strip or behind the dishwasher and sink, connected to a water shut-off solenoid valve.



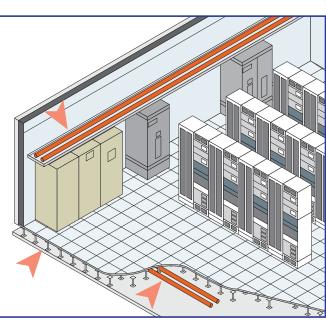
#### Bath/Shower Room Leak Detection

Water sensing cable or probe below the bath, behind the toilet cistern and below the shower. Additionally probes fitted within the cistern to prevent water wastage.



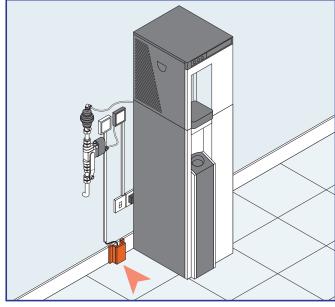
▲ Utility Room Leak Detection

Water sensing cable or probe below the sink and behind the washing machine, connected to a water shut-off solenoid valve.



#### ▲ Data Centre & Comms Rooms

Water sensing cable within the floor void and within drip trays or attached to pipes at high level.



#### Plumbed in Water Cooler

Water sensing probe connected to an isolating water shut-off solenoid valve.





### About Aquilar

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

#### Aquilar Limited – providing world-leading systems for leak detection in critical industrial and commercial environments

Aquilar, founded in 2000, 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. Aquilar embarked on a customer focus program, speaking to many specifying engineers and customers to find out what other products were required. From this, development moved forward and a new range of brands were created including AquiWave, AquiTron, AquiNet and EcoLeak. R&D continues today with new products and solutions created to solve customers' challenges and to meet with new and changing standards within the building industry. Aquilar prides itself on the level of service provided to its clients, offering step-by-step guidance, delivering the most effective solution for each project. A team of dedicated professionals can assist with design support, schematics, technical submittals, and quotations through to the delivery of the leak detection system along with product support required to complete the project to the highest standard.

Whilst Aquilar do not install leak detection directly, they do have a number of highly-trained partner installers around the country to ensure all systems are completed and maintained to the clients' specifications. Based in Broadbridge Heath, Horsham, West Sussex, Aquilar also benefits from ample warehouse space to keep good stock levels, providing off the shelf systems for the largest projects.

Aquilar has over 19 years' experience in design support and supplying leak detection systems into almost all market areas such as data centres, office buildings, banks, schools, hospitals, fuel storage facilities and laboratories. Aquilar have the right solution for all your leak detection needs.

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#### Can We Help You?

If you have a project that Aquilar can assist with, please call us on 01403 216100