

AquaGuard

AquaGuard is a WRAS approved water monitoring system for domestic use.

It reduces the risk of flooding by shutting OFF the cold water supply if there is a burst, fractured or ruptured pipe; or if the property is unoccupied.

AquaGuard comprises a Hand Controller and an electronic Valve/Flow Sensor.

The Valve/Flow Sensor is fitted into the cold water mains supply pipe, immediately after the stopcock.

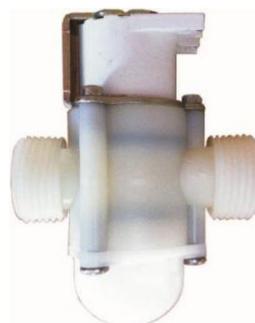
Adjustment, set-up and control of **AquaGuard** is done using the Hand Controller.



Hand Controller

If the water flows for longer than expected (the time is factory set for 10 minutes, adjustable) a “time out” function turns the Valve/Flow Sensor OFF, cutting OFF the water supply.

The Valve/Flow Sensor will also cut OFF the water supply if it flows at a greater flow rate than expected (also adjustable), or does not flow for a period of 24 hours (“holiday mode”, also adjustable). The water will remain OFF until **AquaGuard** is manually reset using the Hand Controller.



Valve/Flow Sensor

If heavy short-term water use is expected (e.g. car washing, garden watering), one button press on the Hand Controller will disable the system for 1 hour. The Hand Controller display will indicate the time left.

AquaGuard (and water supply) can be turned OFF manually.

Benefits

- ❖ Reduces risk of flooding by shutting off valve.
- ❖ A sheared pipe will trigger water shut off in 30 sec maximum.
- ❖ Simple to use Hand Controller.

Main Features

- ❖ Can be battery or mains powered.
- ❖ 12 months battery life.
- ❖ Monitors water flow every 30 seconds.
- ❖ Adjustable flow rate and flow time.
- ❖ “Holiday Mode” switches OFF water if building not in use for a specified time.
- ❖ Delay before “Holiday Mode” starts adjustable from 0 (off) up to 127 hours.
- ❖ System disable available.
- ❖ Water shut-off if battery low (battery version only).

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On the battery powered version (only), if the battery voltage is low the Hand Controller provides an audible warning and the water supply is automatically turned OFF.

A 3m cable links the Hand Controller to the Valve/Flow Sensor. To prevent the Valve/Flow Sensor seizing, **AquaGuard** runs an automatic valve exercise routine every 28 days. The frequency of valve exercise routines is adjustable.

AquaGuard is for indoor use only and must not be used where there is a danger of freezing.

SPECIFICATION		
Dimensions (W x H)	Hand Controller	100mm x 210mm
	Valve/Flow Sensor	80mm x 150 mm
Power Supply	Hand Controller (battery variant)	4 x AA batteries (non-rechargeable)
	Battery Life	1 year (using Duracell batteries)
	Hand Controller (mains powered)	230 V, ± 10%, 50/60 Hz
	Valve/Flow Sensor	Powered by the Hand Controller
	Power consumption	100 mA peak, typically 1 µA
Display		LCD (3 lines x 16 characters). Adjustable contrast
Environmental Protection		IP65
Operating temperature range	Hand Controller	0°C to +30°C (32°F to 86°F)
	Valve/Flow Sensor	0°C to +23°C (32°F to 73°F)
Humidity		5% to 95% non-condensing
Construction	Hand Controller	Plastic
	Valve/Flow Sensor	Fibreglass
Flow Rate	Minimum Flow	2.0 L/Min
	Maximum Flow	30.0 L/Min, 3 % accuracy
Sampling rate		Every 30 seconds
Maximum cut off time if pipe sheared (water flow above pre-set maximum flow setting).		30 seconds
“Time Out” pre-set time		Factory set for 10 minutes Adjustable from 1 to 99 minutes
Valve exercise time setting		Adjustable, 1 to 98 days
Valve/Sensor Port Size/Thread		¾ inch BSP
Approvals	WRAS	
	CE Marked	
Compliance	Radio and Telecommunications Terminal Equipment & TTE directive 1999/5/EC	
	Low Voltage Directive 73/23/EEC	
	EMC Directive 89/336/EEC	
Product Code	Battery variant	AG22001
	Mains powered variant	AG22001PS