

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.

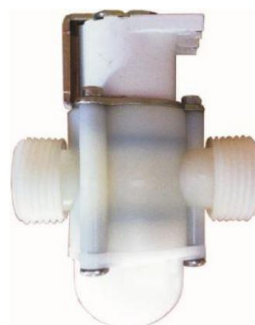
Adjustment, set-up and control of **AquaGuard** is done using the Hand Controller.



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 |