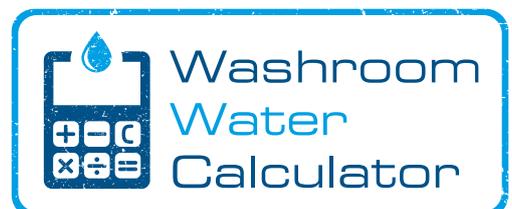


Washroom Control

Sensazone

**CISTERMISER**



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Sensazone

Electronic management system for washrooms

Prevent water wastage, eliminate the risk of flooding in vacant periods and reduce utility bills



- BREEAM compatible; credits under Hea 06, Hea 07, Ene 04 and Wat 03
- Infrared sensor(s) controls supply of all water and electrical services: Hot water, cold water, grey/ rainwater, lighting, ventilation
- Hygiene flush feature
- Avoid flooding due to vandalism or water wastage due to defective outlets
- Ambient light sensor feature – lights only turned on when natural light levels require it
- Surface mounted; suitable for any ceiling type
- Ensures compliance with Water Regulations and earn BREEAM credits
- Can be used to control both water and electrics, or water only (taps, WCs and urinals) or electrics only (e.g lights, fans).



Save water

Sensazone controls water flow with solenoid valves. If motion is detected the valves open to supply water to urinals and cisterns. If no movement is detected for a pre-set period (configurable to 15 or 30 minutes), water supply is cut off.

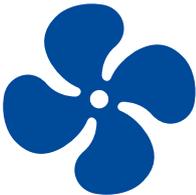
As Sensazone controls water at its entry point, the water is prevented from passing uncontrolled through any defective or damaged outlet, eliminating the risk of wastage or flooding during vacant periods.



Reduce energy

Sensazone automatic shut-down facility eliminates unnecessary energy use. This efficiency is achieved through reducing lighting and extractor fan usage.

The power supply to the lighting will action when Sensazone detects that the washroom is occupied and when ambient light falls below a level configurable by the user. Power will continue to be supplied for either a 0, 15 or 30 minute period, depending on preference.



Extractor fan operation can also be configured; users have the option of using Sensazone to control the fan-run on time, or using the fan unit's own timer facility (dependent on model selected).

A remote-control handset is available that makes setting the Sensazone system quick and easy.



Product information

- When Sensazone detects a user entering the washroom it activates up to three (for hot, cold and rain/grey water supplies) solenoid valves to allow water to flow freely into the washroom.
- If no motion has been detected for a user-configurable time of either 15 or 30 minutes, the valve will close the water supply to the area until further movement is detected.
- Sensazone is designed to control up to three 2W 2/2 bi-stable (latching) solenoid valves per washroom area.

Eliminates the costs and waste associated with defective washroom outlets or vandalism

If a washroom outlet is defective or tampered with, water from the mains or central supply can pass uncontrolled through the outlet valves such as taps or WCs. This waste of water can often pass undetected and cause considerable costs (see table).

As the Sensazone controls the flow of water into the washroom area at the entry point, the water is prevented from passing uncontrolled through the damaged outlet, which eliminates the risk of water wastage or flooding during vacant periods.

Water Loss	Drip	Dribble	Stream	Fully Open
Pressure (Bar)	2	2	2	2
Litres per week	889	1,512	8,643	84,672
Litres per year	46,228	78,624	449,436	4,402,944
Cost per week (£)*	2.80	4.77	27.31	267.56
Cost per year (£)*	145	248	1,420	13,913

The calculations above are based on a defective WC cistern valve which is allowing water to pass through a WC at different rates during periods of non-use. Cistermiser has quantified these varying rates and calculated the potential water and financial losses.

*Based on an average UK domestic water cost of £3.16 per m³, combined supply and sewerage (Dec 2014)



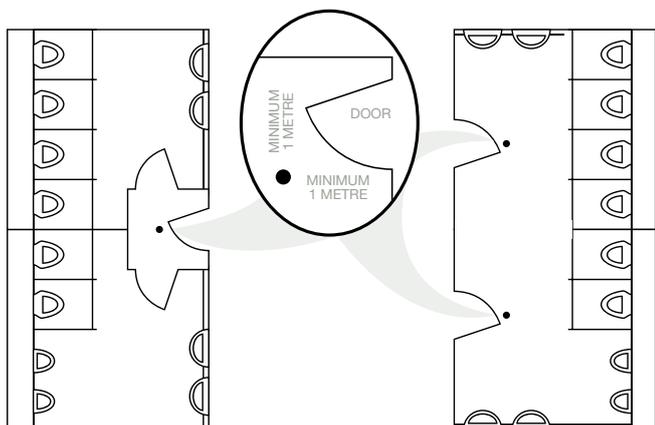
Systems configuration

The Sensazone system features can be used in the following scenarios:

Scenario	Required control	Required products
1	To control the water supply to one zone, room or area of a washroom (with a single/common entrance).	Sensazone core product
2	To control the water supply and lights and fans to one zone, room or area of a washroom (with a single/common entrance).	Sensazone core product A Sensazone Interface Module A Sensazone Light & Fan Control
3	To control the water supply to multiple areas of a washroom simultaneously. Examples include a washroom divided into different areas and a washroom with two or more entrances.	Sensazone core product A Sensazone Interface Module Additional Sensor Kits Additional Valve Kits (where applicable, to a maximum of 3 valves per system)
4	To control the water supply, lights and fans to multiple areas of a washroom (with two or more entrances).	Sensazone core product A Sensazone Interface Module A Sensazone Light & Fan Control Additional Sensor Kits Additional Valve Kits (where applicable, to a maximum of 3 valves per system)

Guidance on system layout

The following layouts provide examples of where to locate sensor(s). Sensor(s) should be located at a minimum distance of 1 metre from the entrance(s) to the washroom area.



- The sensitivity of the sensor(s) can be increased to ensure that all users of the washroom area are detected. This feature is particularly applicable in an environment such as a primary school where the presence of the users such as young children, may be more difficult to detect with the normal sensitivity setting. In most applications the default setting offers effective detection.
- Sensazone can be configured either manually or via the hand held remote control Infrared Configuration Unit (ICU) which is available separately.

Technical specification wording

Hea 06

Where evidence provided demonstrates that lighting in all occupied areas is zoned to allow separate control.

The Sensazone system is to provide control to the lighting, specifically in the washroom area, to ensure that lighting is only on when the area is occupied and is automatically switched on for the convenience of users.

Hea 07

Where lighting controls allow commonly required lighting settings to be made quickly and easily by building occupants.

Users not familiar with the facility are also catered for by means of the PIR sensor lighting which is automatically switched on when a user is detected.

Ene 04

Where energy efficient external luminaires are fitted and all light fittings are controlled for the presence of daylight.

The Sensazone system is to provide control of the lighting within the washroom area so that the lighting is only on during periods when the washroom is occupied and there is insufficient daylight.

Wat 03

Where evidence is provided to demonstrate that proximity detection shut-off is provided to the water supply to all urinals and WCs.

The unit is to consist of an interface module, a light and fan control (where applicable).

The unit should be the Cistermiser Sensazone as manufactured by: Cistermiser Limited, Unit 1, Woodley Park Estate, 59 – 69 Reading Road, Woodley, Reading, RG5 3AN Tel: 0118 969 1611

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