



WATER SUSTAINABILITY

PIR WaterSave®

Motion sensor flow control system,
ideal for buildings with communal
areas with running water

Can also earn one BREEAM WAT 03 credit



Andel offers a range of water sustainability products that can reduce water usage, reduce water wastage, save money on water bills and prevent the costly consequences of water damage from internal leaks.

PIR WaterSave® is an effective water sustainability solution suited to multi-occupant/visitor buildings such as hotels, hospitals, care homes, student accommodation, offices, schools and universities – in fact any buildings with communal bathrooms, shower rooms, WCs and kitchens.

Installed in any areas where there is running water, the motion sensor automatically ensures that water is only supplied when movement is detected.

PIR WaterSave® can reduce your water bills by eliminating water wastage through leaky taps, taps and showers accidentally left running and importantly leaky WCs which can all add up to a significant waste of water.

Research conducted by the water industry in the UK has found that around 5% to 8% of toilets are continually leaking water



This can amount to a significant amount of water wastage, ranging from 215 to 400 litres per toilet per day. Nationwide, it is estimated that 400 million litres of water leak from UK toilets every day, which could meet the needs of 2.8 million people.

Example scenario: cost of water wasted from leaky loos in a 500-bedroom hotel:

If 8% of the hotel WCs waste 400 litres of water per day, based on a cost of £1.70 per 1,000 litres, the hotel could be paying £27.20 per day or nearly £10,000 per year for wasted water.

NOTE: This does not include dripping or leaky taps or when visitors leave a tap running.



Authorised Distributor in Singapore

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Making water sustainable for
a cleaner and safer environment.

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PIR WaterSave® system comprises a wall-mounted control panel and a ceiling-mounted 360° PIR (Passive Infra-Red) motion sensor which together control low-energy, motorised isolating valves, switching the water supply on and off as required, through the detection of movement in the monitored area.

The system can also connect to an existing PIR motion sensor lighting system.

Each control panel can manage up to three motorised valves and a further two PIR motion sensors if required.

Benefits at a glance:

- Saves on water bills
- Reduces water usage
- Reduces water wastage
- Protects against damaging and costly water leaks
- Can earn one BREEAM WAT 03 credit
- Ideally suited to multi-occupant/visitor buildings with communal areas with running water.

BREEAM WAT 03 credit

The aim of BREEAM WAT 03 is to reduce the impact of water leaks that may otherwise go undetected. As defined by the standards in BREEAM WAT 03, PIR WaterSave® is an automatic device detecting occupancy or movement in an area to switch water on and turn it off when the presence is removed.

PIR WaterSave® can aid in the accumulation of BREEAM credits subject to a successful audit by an authorised assessor.

TECHNICAL INFORMATION

POWER:

- Mains supply: 86-264Vac 50/60Hz
- Mains fuse protection: 3 Amp
- Maximum current consumption: 60W
- Minimum current consumption: 150mA (approximate).

CONSTRUCTION:

- IP66, ABS enclosure.

DIMENSIONS:

- H175mm x W175mm x D50mm.

FIXING:

- Control panel: Surface-mounted internal wall, optional wall brackets supplied with the unit
- PIR motion sensor: Ceiling mount with spring-loaded retaining clip. 64mm diameter hole required for fitting.

MONITORING:

- Continuous monitoring for movement at the PIR sensor location
- Up to three PIR sensors can be connected to each system
- Automatic time delay following no movement.

STATUS AND ALARM INDICATORS:

Power on: Green LED (no light when power is off)

Water on: Green LED (no light when water supply is off).

OUTPUT R1

- Three simultaneous outputs (one for each valve)
- Up to three valves per system.

SHUT-OFF VALVES:

- WRAS-approved.
- Stainless-steel motorised ball valves supplied with a 2-core flying lead.
- Orifice sizes in mm: 10, 15, 20, 25, 32, 38 or 50.

OUTPUT R2

- Single-pole, double-throw relay output, clean-contact switch, only used to simultaneously switch the lighting circuit on at the same time the PIR motion sensor activates to ON. Rated at 230V 6A for a typical lighting circuit.

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