WATER SUSTAINABILITY/LEAK DETECTION

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.

How it works

PIR WaterSave® system comprises a wall-mounted control panel and a 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.

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.

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

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.

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 credits subject to a successful audit by an authorised assessor. Andel Ltd, its products and services are not aliased, endorsed, or certified by BRE Global Ltd. All rights are reserved.

Configurations

PIR WaterSave Control + PIR	PIR WaterSave Control Panel	PIR WaterSave Motion Detector 24Vdc
Item 600481	Item 600483	Item 600507

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

Height: 175mm

Width: 175mm

Depth: 50mm

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: 10, 15, 20, 25, 32, 38 or 50mm

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.

Standards & certifications

- WRAS Approved
- BREEAM WAT 03