



# Smartflush

water-saving system

**Don't flush  
your profits  
down the drain**



**COST EFFECTIVE URINAL  
CISTERN CONTROL**

**WRAS**  
APPROVED  
PRODUCT

**A Water Byelaws Scheme  
Approved System**

which meets Health & Safety requirements  
and slashes water bills - comply with  
legislation and make major savings!

## **Key Features & Benefits**

- Typical payback within six months
- Proven reliability
- Long battery life
- Optimum water usage
- Programmable maintenance flush



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## Typical Payback Under 6 Months - How Much Could You Save?

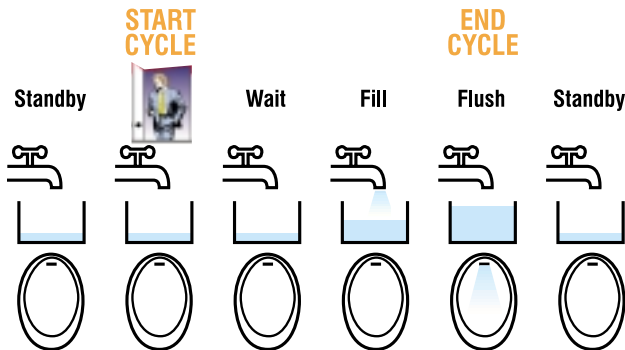
### Typical Annual Savings for Smartflush with a 9 litre Cistern Feeding 2 urinal Bowls

	30 MINUTE CYCLE, 12HR MAINTENANCE CYCLE			
	Flushes/week	% Saving	£ Annual Cost	£ Annual Saving
Village Hall used 3 times/week	53	89%	£45	£366
Pub open each evening	91	82%	£74	£337
Pub open all day	147	71%	£119	£292
School in term time	32	93%	£29	£382
Factory working 24 hrs/day	288	43%	£234	£177
Busy office open weekdays	71	86%	£56	£355

Please ring for more details of the calculations.

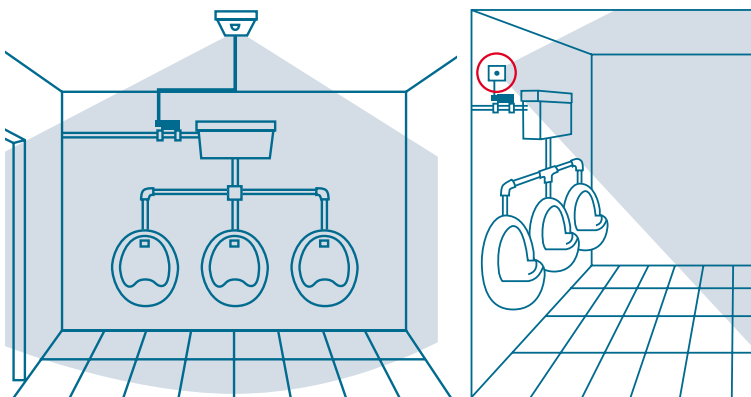
## How Smartflush Works

Smartflush waits until movement is detected, then delays before filling and flushing the cistern



Cycle Time, from triggering to the end of the flush, may be set to 20, 30, 40 or 60 minutes.

Fill time, up to 31 minutes, is easy to set. In Standby, a Maintenance Flush occurs every 8, 12 or 24 hours, timed from last flush.



The PIR can be fixed anywhere to give optimum detection - on the ceiling or the wall

Your Local Supplier:

An uncontrolled urinal flushing every 20 minutes flushes 504 times each week, using about 240 cubic metres annually for a small, 9 litre cistern which at 171.5p/m<sup>3</sup> costs typically £411. (Charges vary by region, example is Yorkshire Water 2004). The same urinal fitted with Smartflush will still flush within a short time of urinal use but use much less water by starting a flush cycle only after use.

## High Standard of Hygiene

Unlike hydraulically-operated units, Smartflush is designed to flush within a short time of every use, typically no more than 30 minutes, so the urinal stays fresher for longer. Fast filling ensures that the cistern gives a proper flush, avoiding the constant trickle out which sometimes happens with trickle-fed cisterns. Cycle time may be adjusted at any time to 20, 30, 40 or 60 minutes.

## Specification

- Supply Voltage:** 6V DC (230V AC version optional)
- Battery Life:** 3-4 years with low cost alkaline battery pack supplied
- Low Battery Action:** Disables valve opening
- Motion Sensing:** PIR\* with domed fresnel lens
- Detection Area:** 100 x 60 degrees beam width
- Detection Range:** 5m ahead, 2m at edge of beam
- Control Valve:** Magnetically latching solenoid, 2mm orifice, 15mm compression fittings
- Max. Water Pressure:** 9 bar
- Min. Water Pressure:** 1metre head; optional 4mm orifice valve available for lower pressures
- Fill Time:** 0-31 mins in 1 sec. steps, auto-measured
- Flush Cycle Time:** 20, 30, 40 or 60 minutes set via switches
- Maintenance Flush:** None, 8, 12 or 24 hour intervals set on installation
- Manual Flush:** Hidden button on front of unit gives instant flush, enabled or disabled on installation
- Battery Check:** Battery and valve operation may be checked via manual flush button
- Visual Indication:** A red light in the dome flashes once on manual flush and at start of each cycle

\*PIR - Passive InfraRed detector, an electronic device which detects movement of body heat.

Designed and manufactured in the UK by

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