

## WATER WATCH FEATURES

1. **MICROPROCESSOR CONTROL.** The Water Watch is an intelligent flush controller able to implement an optimum flush programme, monitor its battery state continuously and maintain a table of its operating parameters which can be read by a small hand held computer.
2. **“ENVIRONMENTALLY FRIENDLY” BATTERY.** The battery is a long life Duracell battery (Alkaline). It has a typical life of 4 years. The battery is a non-mercury and non-lithium type
3. **A BATTERY LOW WARNING** is given by flashing a red light. This gives ample warning that the battery needs changing. The battery is checked after every flush and when a battery low condition is detected the red LED indicator on the front panel flashes at regular intervals. The flashing stops one minute after the detection zone is vacated. While the battery is low the maximum flush rate is reduced to 1/hour to conserve energy. If the battery low warning is ignored, then after approximately 3 months further flushing will stop. However the battery low warning will continue.
4. **A FAIL SAFE VALVE** mechanism is used to ensure that the valve is not stuck open due to an exhausted battery. The microprocessor controls a unique voltage boost circuit that maintains the correct valve operating voltage independently of the battery voltage.
5. Temperature stable **QUARTZ CRYSTAL** timing control for very accurate control of the flush rate and the time the valve is opened to fill the cistern.
6. Very **SIMPLE SET-UP** procedure using a single switch on the circuit board. Starting with an empty cistern. The switch is moved to the ‘open’ position the valve opens and water flows into the cistern. When a flush commences the switch is ‘closed’ and the set-up is complete.
7. **A VALVE TEST** can be carried out at any time using the same switch used during set-up. Operation of the switch will cause the valve to open and close confirming correct wiring and operation of the valve. As long as the switch is not left in the valve ‘open’ position for longer than 1 minute, the original set-up will not be affected.
8. **A HIGH PERFORMANCE PIR DETECTOR** is used to detect toilet occupancy. A special lens (as used in burglar alarms) gives wide-angle detection. During installation the valve operate switch enables the red lamp to operate as an occupancy or “walk test” detector so confirming the detection zone of the Water Watch.
9. An **OCCUPANCY DETECTION CIRCUIT TEST** can be carried out at any time using the same switch and with the same constraints outlined in 7. above.
10. Fully **PROGRAMMABLE FLUSH RATES** and **HYGIENE CYCLES** using movable shorting links on the circuit board.

11. A WATER AUDIT reading can be obtained using a Psion Organiser. The Audit identifies the unit by unique serial number and provides details of the unit's operational parameters. The information enables water savings to be calculated and good maintenance / hygiene practice.
12. A FLUSH COUNTER unit is available as an optional extra. This small and low cost digital counter can be installed on a permanent or temporary basis to provide the facility manager with a simple method to monitor flushing and maintain a check on water usage.
13. VANDAL RESISTANT enclosure. The specially designed enclosure is made of heavy gauge steel while retaining an elegant appearance. A single concealed screw attaches the lid to the base plate. Unlike plastic enclosures the Water Watch does not attract dirt and is easily wiped clean. Nickel zinc plating ensures corrosion resistance.
14. The Water Watch is a WATER BYE LAWS scheme APPROVED product and has been tested for its compliance in the laboratories of the Water Research Council.
15. A WATER CONTROL VALVE with integral stainless steel filter is used to control the water supply to the cistern.