INSTALLATION INSTRUCTIONS

SENSAFLUSH

Diagram 1

1.0 CONTENTS OF SENSASLUSH (SS100)

1.1 1 x Sensaflush Control Unit with Adjustable Mounting Bracket
1.2 6 AMP AC Power Supply
1.3 1 x Set Of Installation Instructions
1.4 2m Dual Flux Cable
1.5 1 x Guarantee form
1.6 SS100-KIT (Sold Separately)

Contents of SS100-KIT

1. 40mm x 15mm Poly Bush
2. 15mm Brass Line Strainer
3. ½" M x F Elbow
4. ½" (15mm) Brass Hex Nipple
5. ½" Male x ¾" Comp Union
6. 15mm F x F 24Volt AC Solenoid With Plug Pack (WaterMarked)
7. Exposed Chrome Plated Vacuum Breaker Flush Pipe Kit
8. 15mm M x F Tested Dual Water/Gas Ball Valve

2.0 GENERAL DESCRIPTION

Sensaflush consists of two main items. A sensor control unit and installation kit. The combination allows controlled flushing of men's urinals to prevent unnecessary water wastage.

3.0 OPERATING PRINCIPLE

On detection of a person stepping up to the urinal, the Sensaflush will initiate a cycle of flushing. If the Sensaflush is installed as preset, flushing will occur approximately 1.5 minutes after detection and run for 7 seconds. Once the cycle has finished, a new cycle will only commence when another detection is made. Sensaflush is programmable to suit individual customers' needs and the options are shown in Section 7.

4.0 PLUMBING INSTALLATION

This Sensaflush is pre-set to be installed in conjunction with an installation kit. All plumbing should be completed by a qualified tradesman. It is your responsibility to ensure the switches are set to factory settings.

Under no circumstances should a urinal be installed without complying with current building regulations and/or territorial approvals. If in doubt contact your local Building Authority.

The pipe and valve sizing should be designed by a suitably qualified person; in order to achieve a flush volume of 2.0L/wall hung urinal (or 4.8L per stall of slab urinal). 1 stall = 600mm urinal width. Sensaflush will open the solenoid valve for either 7 or 15 seconds (refer Section 6.0). We recommend wall hung urinals are flushed for 7 seconds and slab urinals for 15 seconds.

15mm standard solenoid valves are supplied and operate in the 50-1000kPa range but we recommend setting pressure within the 350-500kPa range for optimum performance.

Use a Wilkins Model NR3 pressure reducing valve if necessary. Where very low pressures exist, ensure pipe sizing is sufficient to compensate. Water pressure should not be less than 100kPa. Valves should be assembled as per Diagram 1.

4.1 ASSEMBLY INSTALLATION

Screw together all components supplied in SS100-KIT. Make sure all joints are water tight and flush out supply lines before final testing of installation. Remember 1x installation kit is required for each water entry on urinal with a maximum of 3x kits per sensor unit. Note: A.S.3500 requires on urinals, water entry for every 1.8m of urinal length Ref to Diagram 1 for correct parts of installation kit.

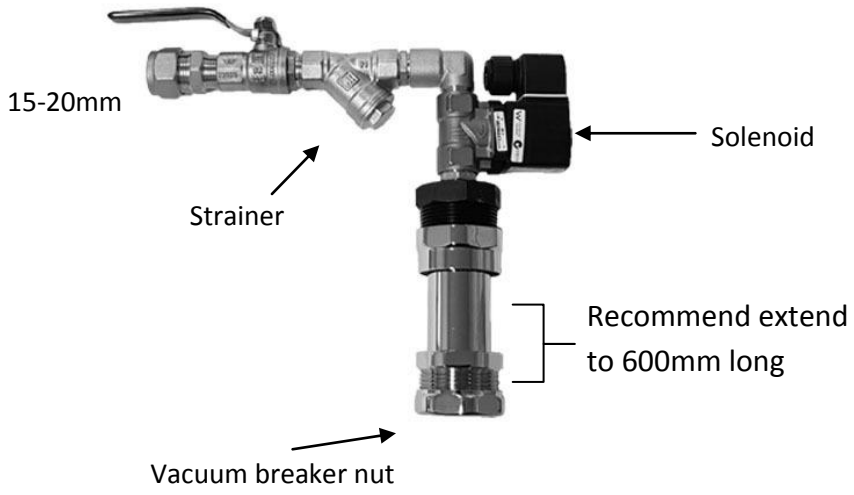


Figure 2

5.0 ELECTRICAL INSTALLATION

Electrical work should be carried out by a registered electrician.

The control unit should be positioned, if possible to detect only people using the urinal. Detection field patterns are as per Diagram 2, but smaller “lobes” of detection can occur outside this main lobe.

Avoid pointing the control unit towards hallways or other areas where traffic patterns may encourage false triggering. Remember, Water Guard will detect through walls and ceilings up to a maximum of 4m.

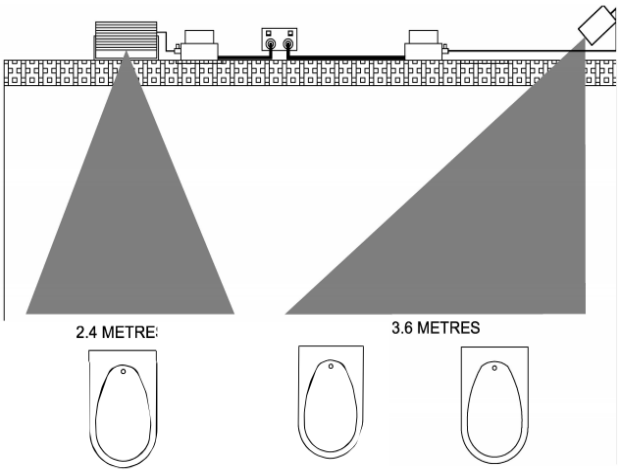


Diagram 2

Where there are multiple urinals and Sensaflush, avoid pointing the control unit towards other urinals as water movement can also cause false triggering.

The control unit can be mounted above a ceiling for out of sight installation, provided the thickness of the ceiling does not exceed 15mm and it is a non-conductive material such as Giboard, Hardiflex, plastic or glass. Materials such as sheet metal, foil, or foil backed boards and wire reinforced glass should be avoided. See Diagram 3 for clearances.

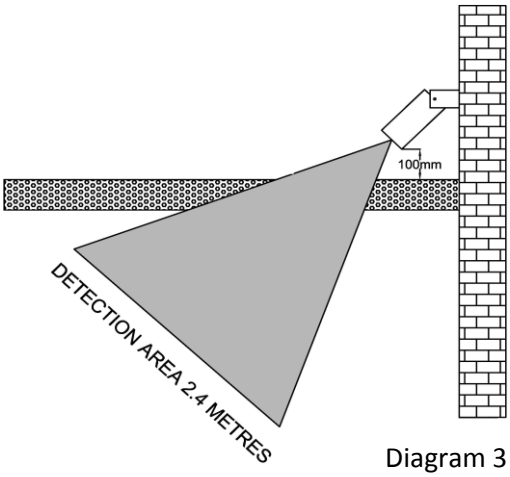


Diagram 3

When the controller is plugged in, the red LED on the front of the controller should come on and flicker when movement is detected. Adjust the position of the controller to achieve suitable detection.

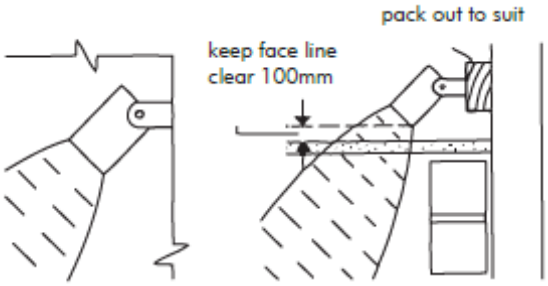


Diagram 4

6.0 WIRING INSTRUCTIONS

One Solenoid Wiring Instructions

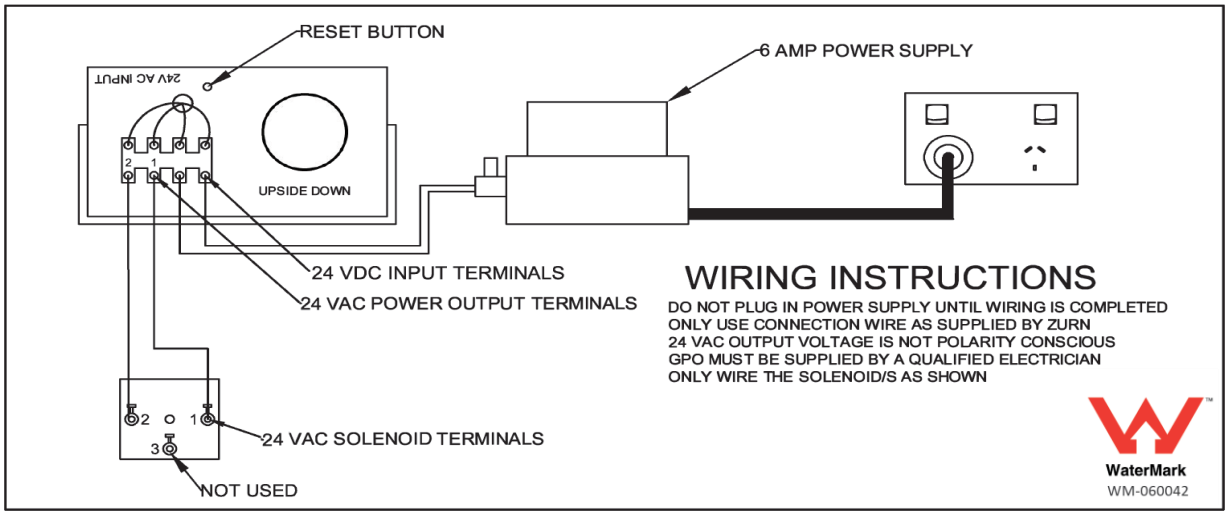


Diagram 5

Two Solenoid Wiring Instructions

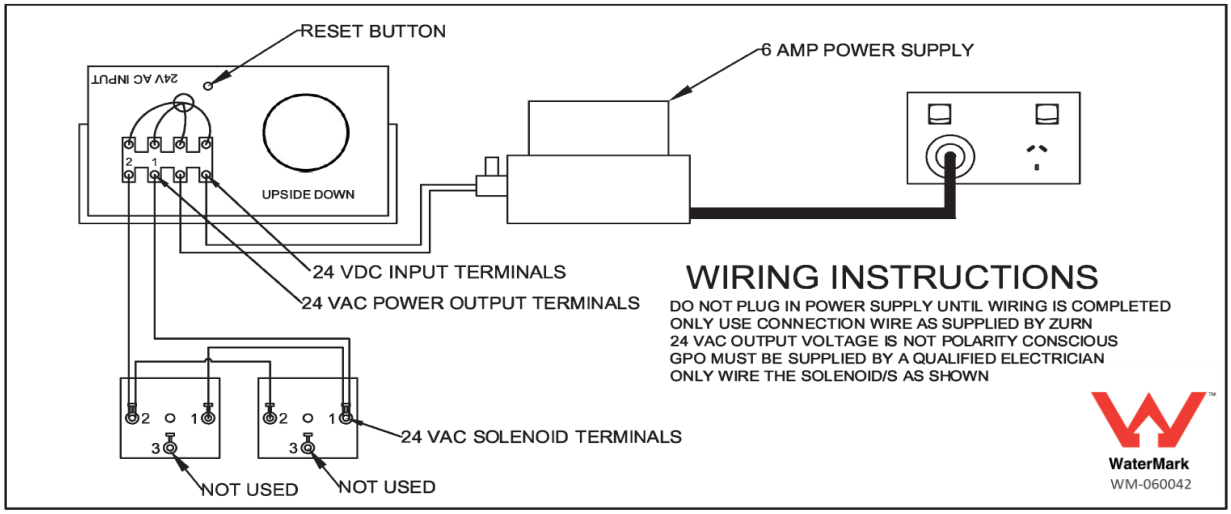


Diagram 6

Three Solenoid Wiring Instructions

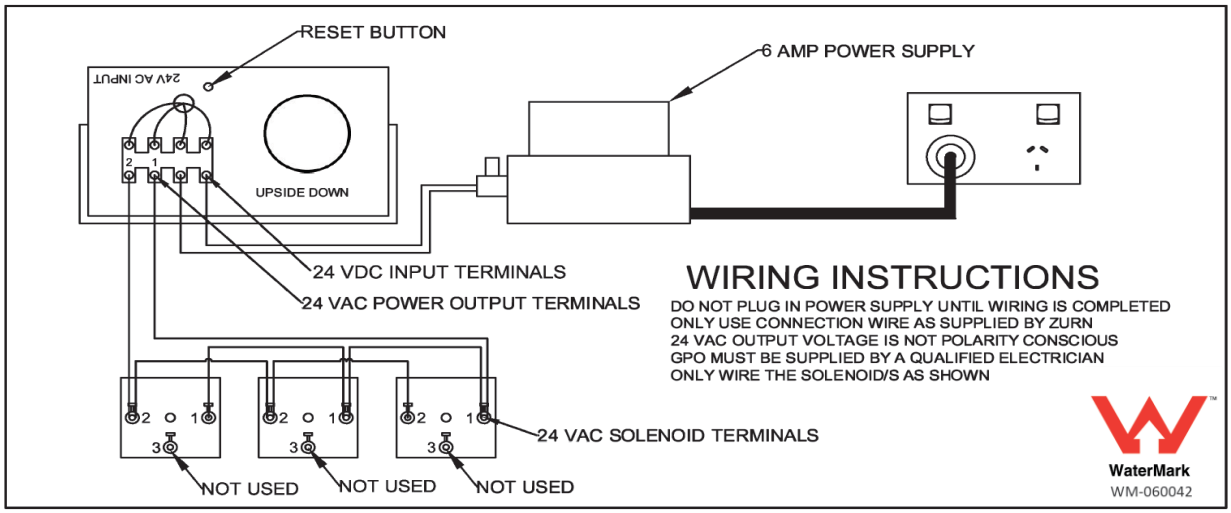
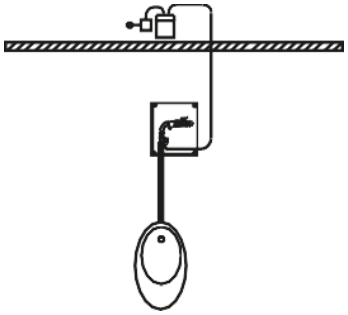


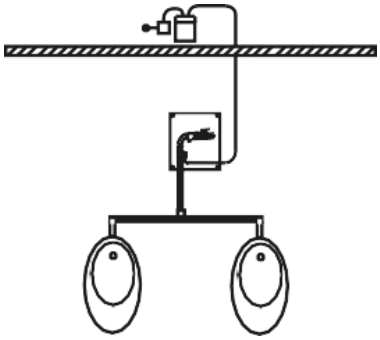
Diagram 7

SENSAFLUSH SENSOR UNIT - VITREOUS CHINA URINALS



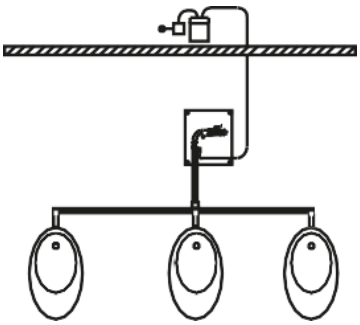
Option 1: Single Wall Hung Urinal

Using 1 X LWG - SS100 Sensor and
1 x SS100-KIT LWG Urinal Installation Kit



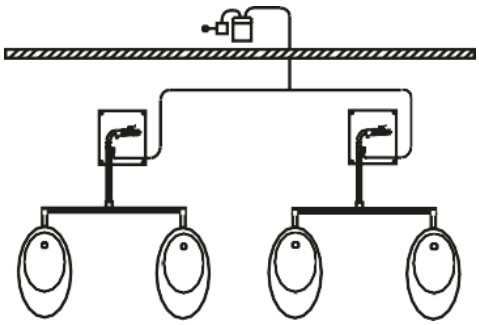
Option 2: 2 x Single Wall Hung Urinals

Using 1 X LWG - SS100 Sensor and
1 x SS100-KIT LWG Urinal Installation Kit



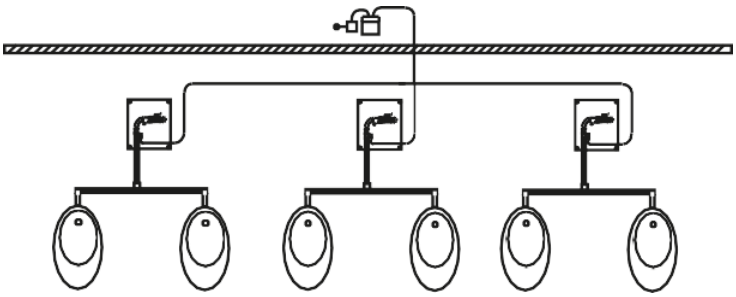
Option 4: 4 x Single Wall Hung Urinals

Using 1 X LWG - SS100 Sensor and
1x SS100-KIT LWG Urinal Installation Kit



Option 4: 4 x Single Wall Hung Urinals

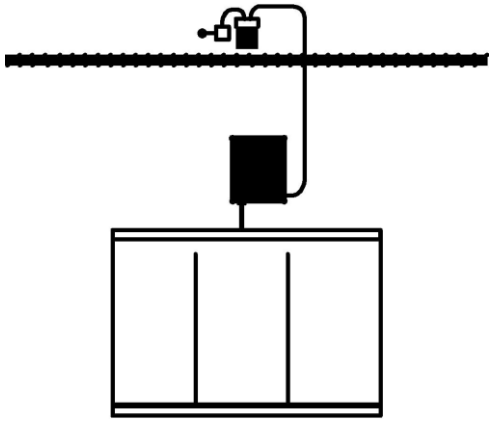
Using 1 x LWG - SS100 Sensor and 2 x
SS100-KIT LWG Urinal Installation KIT



Option 5: 6 x Single Wall Hung Urinals

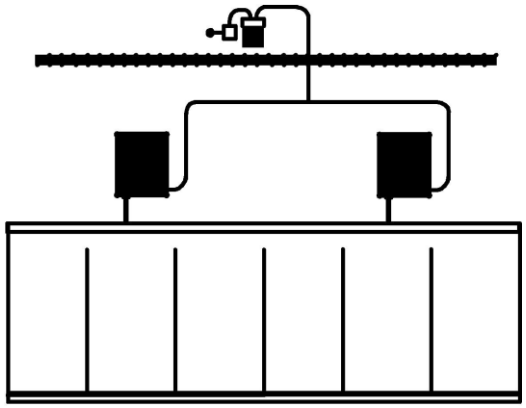
Using 1 X LWG - SS100 Sensor and 3x SS100-KIT LWG
Urinal Installation Kit

SENSAFLUSH SENSOR UNIT- STAINLESS STEEL URINAL



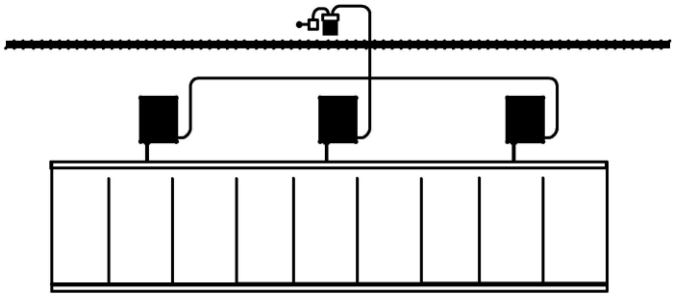
Option 1 : Slab Type Urinal with Inlet Sparges

Using 1 X LWG - SS100 Sensor and
1 x SS100-KIT LWG Urinal Installation Kit



Option 2 : Slab Type Urinal with 2 Inlet Sparges

Using 1 X LWG - SS100 Sensor and
2 x SS100-KIT LWG Urinal Installation Kit



Option 3 : Slab Type Urinal with 3 Inlet Sparges

Using 1 X LWG - SS100 Sensor and 3 x SS100 KIT LWG
Urinal Installation Kit

7.0 OPTIONS

Located on the back panel of the control unit is a small circular plate.

Behind this is a series of 8 switches which give you the option of changing the flush cycle to suit your client's needs. There are 3 sections that can be programmed,

a) **After Hours Flushing**: Gives the option of regular after hours flushing to reduce the likelihood of trap dry-out.

b) **Delay After Detection**: Sets the delay time from time of detection to time of flush, which is typically set to 1.5 minutes.

c) **Flush Time:** 7 seconds for wall hung urinals, 15 seconds for slab urinals

Switch Settings – Factory Settings

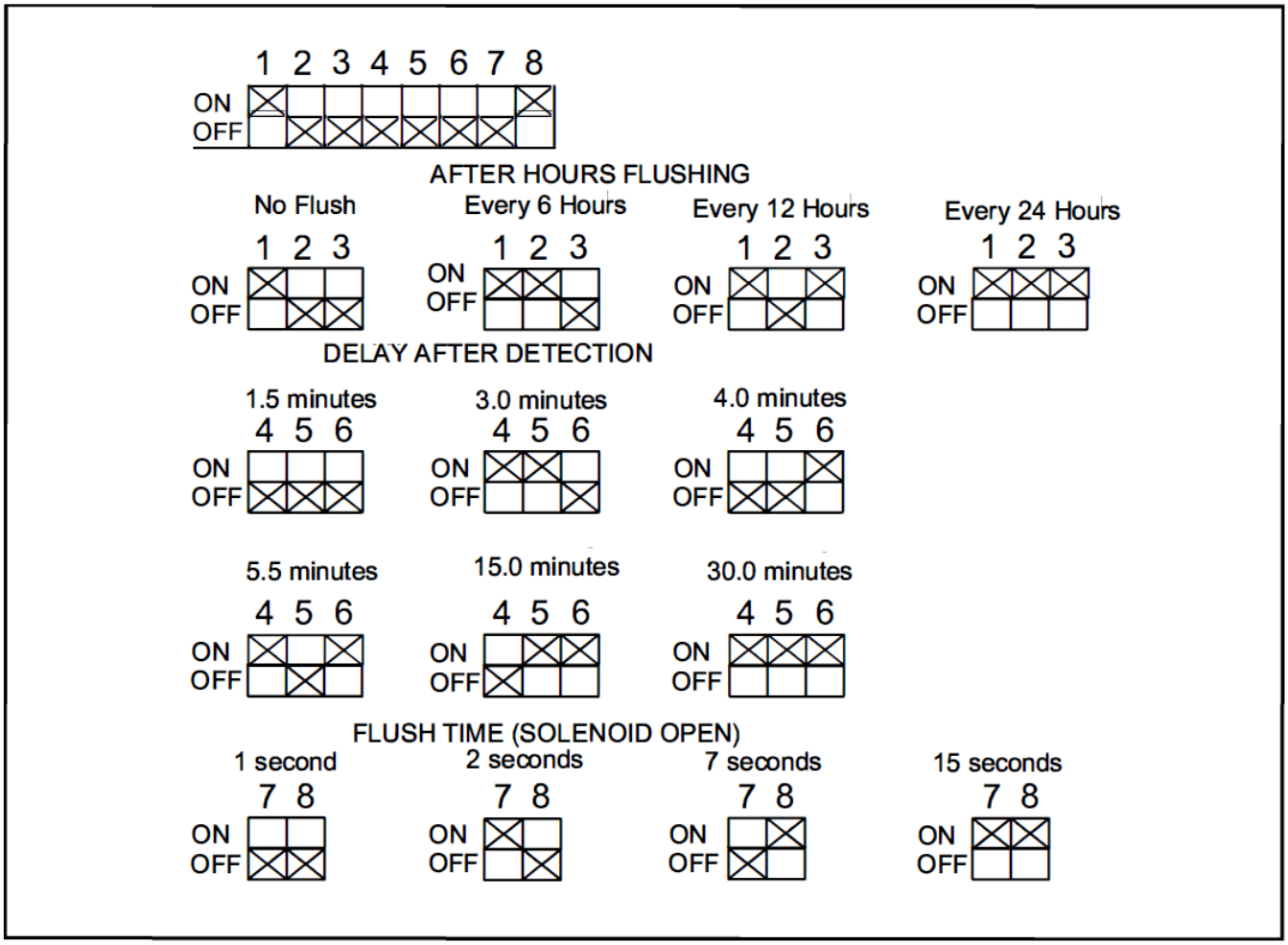


Diagram 8

8.0 COMMISSIONING

Once the electrician has wired up the unit, it is necessary to ensure the flushing function is correct.

Check that the switch setting has been altered to suit the client's needs and/or urinal style. Refer Section 7.

Press the re-set button on the back of the Sensaflush. The solenoid valve should open for 2 secs and then close. Pass your hand in front of the Sensaflush. The LED on the front should flicker when detecting movement. Wait for the chosen delay period - the solenoid should open for the chosen flush time of 1-15 seconds.