

## INTRODUCTION

### Features:

- Night time sleep mode.
- Alarms for low battery and faulty valve.
- Adjustable janitor flushing.
- Flush counter for water audit.
- Passive Infrared sensor technology.
- Potential for client branding.
- User friendly set up with internal LCD display menu

The Flushmaster uses a PIR motion sensor to detect the activity in your washroom, this then triggers a delay and flush cycle only when needed, saving money by reducing your water consumption by up to 95% .

### Within the installation pack you will find:

- The Flushmaster Control Box with 2 meters of cable & pre-fitted valve plug.
- 1 solenoid Valve.
- 2 Batteries.
- Screws & fixings.
- Instruction guide.

### FLUSHMASTER BASIC SPECIFICATION

<b>Control Box</b>	Grey ABS 120 x 80 x 50 mm.
<b>Battery Life</b>	2 years or 4 years.
<b>Battery Type</b>	PP3 9Volt .
<b>Cistern Fill Time</b>	0 – 35 minutes (1 second steps).
<b>Flush Delay</b>	0 - 99 minutes (1 minute steps).
<b>Light Sensor</b>	Automatic Selection.
<b>Janitor Flush</b>	Set to flush every 1, 3, 6, 12, 24 or 48 hours after last motion was detected.
<b>Flush Counter</b>	To check how many flushes have occurred press the function button & when in first screen press & hold the adjust button for 3 seconds.
<b>VALVE:</b>	
<b>Valve Fault Type</b>	Warble Alarm.
<b>Voltage</b>	2mm Latching Solenoid Valve.
<b>Fittings</b>	6VDC / 40 ms Pulse.
<b>Max Pressure</b>	1/2" BSP / 15mm Compression.
<b>Flushmaster NWP</b>	10 Bar.
<b>Service Interval</b>	1 - 7 Bar.
	3 years (recommended).

### Default Settings:

Fill Time 6 Min, Delay Time 30 Min, Janitor flush 24 Hours.

## ALARMS

### FLUSHMASTER ALARM MODES

#### **LCD displays - BATTERY IS BAD - in the menu.**

Then the Battery / Batteries should be replaced immediately.

Do not attempt to set up the Flushmaster with poor condition batteries.

If the batteries are removed whilst the menu is displayed, the Flushmaster may lock-up & cease to respond to the buttons, in this case the RESET button must be pressed which restores the Flushmaster to its initial set up state & all settings will need to be re-entered.

#### **Battery Low Condition in service.**

The battery low condition is indicated by a short beep.

When the time comes to replace the batteries, make sure that the display is blank before disconnecting the batteries, otherwise the contents of the memory will be lost. Once the batteries are disconnected, the Flushmaster retains its settings for 30 seconds.

### **IMPORTANT**

Only use quality replacement Alkaline Batteries.

The Flushmaster can function with only one battery but we recommend using 2 for increased battery life.

Fit One Battery = Approximately 2 / 3 years Battery Life

Fit Two Batteries= Approximately 4 / 5 years Battery Life

#### **If the LCD displays - VALVE FAULT - in the menu.**

The valve fault condition is also indicated by a warbling sound this alarm means that the valve is either stuck open or closed.

This could mean that the valve is faulty, or the valve is being operated outside its pressure range, or that the wiring is faulty, In all these cases the valve & wires must be checked, serviced or replaced, do not allow the system to operate if this alarm is sounding as water will be wasted.

### **WARRANTY**

12 months parts replacement only, no responsibility can be taken for failure of the valve directly resulting from contaminated water supplies, or improper installation of the Flushmaster.

## SAVING WATER & ENERGY



# FLUSHMASTER

Battery Powered  
PIR Urinal Control

CISTERN FILL  
INSTALLATION & SET UP  
GUIDE

SKU: WES10

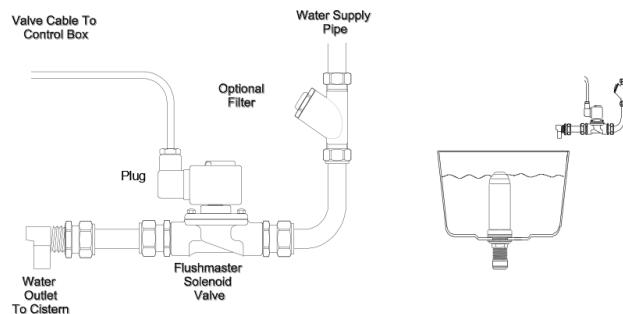


**WES10 - Flushmaster**

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## STEP 1 ( Installing The Valve )

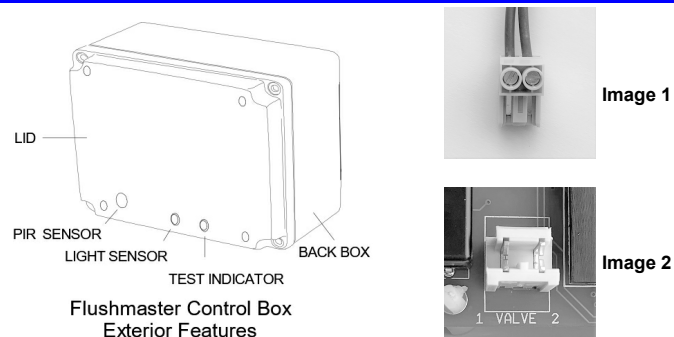


Turn off the water supply & identify a suitable location for the valve. Remove a section of pipe & fit the valve taking note of water flow direction marked on the underside of the valve with either an "IN" mark or 1 for "In" & 2 for "Out".

After the valve is installed turn on water supply & check for leaks before proceeding.

Use the battery to open the valve by tapping the battery contacts onto the 2 contacts on the valve (one polarity opens the valve & turning the battery over closes the valve), let the cistern fill & when it flushes immediately close the valve & allow it to fully empty ready for the programming stage.

## STEP 3 ( Installing The Control Box )



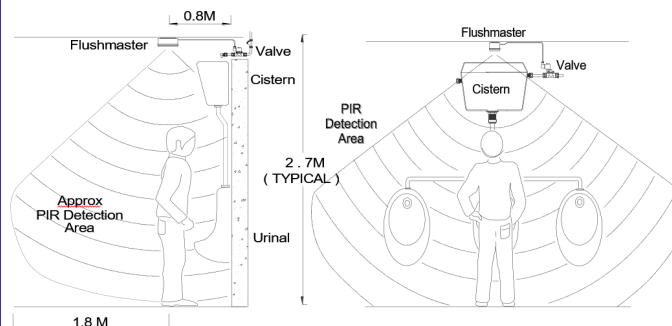
**Note: Do not fit the batteries in this step.**

Separate the Flushmaster lid & back box by unscrewing the 4 screws on the lid & keep the lid in a safe / dry place.

Securely fix the back box to the ceiling then connect the cable with the pre-fitted valve plug to the valve, it is recommended to secure the cable with clips or plastic conduit, to prevent damage or tampering after installation.

Take the Flushmaster lid & connect the plug on the valve cable in the back box (**Image 1**) to the valve connection on the PCB in the lid (**Image 2**).

## STEP 2 ( Control Box Location )

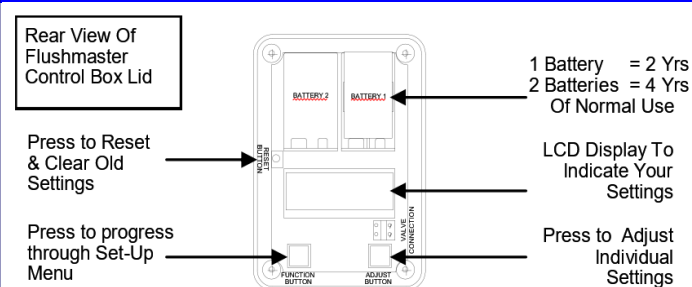


The Flushmaster will ideally be located on the ceiling in the centre of the urinals to be controlled, facing downward & at approx 0.5m - 0.8m from the cistern wall.

Mounting on a vertical wall is also permissible but not recommended as false activation will occur from occupants using other facilities in the washroom, thus causing unnecessary water waste.

Avoid if possible locating the Flushmaster near heat sources or where sunlight can fall on the PIR detector window to prevent false activations.

## STEP 4 ( Pre - Programming Set Up )



Insert the batteries then immediately press the reset button & wait 5 seconds for the LCD display to illuminate.

If the batteries are connected & the Flushmaster is not set up correctly then after 35 minutes a factory default setting is activated followed by 5 minutes in test mode to provide some basic hygiene flushing until the Flushmaster is set up correctly.

Default Settings:

Fill Time 6 Mins, Delay Time 30 Mins, Janitor flush 24 Hours

## PROGRAMMING

Before programming check water supply is back on & the cistern is empty.

ACTION	LCD DISPLAYS
Connect the battery & then press the <b>Reset Button</b> .	FLUSHMASTER (SERVICE 01803 521415) V1.2.0 No 0000001 (EXAMPLE)
Wait 5 seconds. Fill Time programming screen appears.	
Press the <b>Adjust Button</b> to open the valve & start filling the cistern.	WITH CISTERN EMPTY, PRESS ADJUST TO START FILL TIMING FILL TIME: 00:00
Press the <b>Adjust Button</b> again when water begins flushing into urinal bowls.	PRESS ADJUST WHEN FLUSHING STARTS FILL TIME: 06:00 (EXAMPLE)
Delay programming screen appears.	
Press the <b>Adjust Button</b> to increase flush delay time in minutes. (The time between movement detected & flushing starting)	PRESS ADJUST TO INCREASE . PRESS FUNCTION WHEN DONE DELAY TIME: 30 (EXAMPLE)
Press the <b>Function Button</b> when done.	
Janitor programming screen appears.	
Press the <b>Adjust Button</b> to increase the Janitor flush frequency in hour increments. (Hygiene flush x hours after the last motion was detected)	PRESS ADJUST TO INCREASE . PRESS FUNCTION WHEN DONE JANITOR: 12 (SUGGESTED SETTING)
Press the <b>Function Button</b> when done.	
Set-Up is complete & Test Mode activates for 5 minutes.	TEST MODE ACTIVATED FOR 5 MINUTES ONLY. FIT LID TO CASE
Refit the lid securely to the back box & see notes below for Test Mode.	

### TO TEST THE FLUSHMASTER

Walk away from the region where the PIR sensor is set to detect, wait 10 seconds, then approach the urinal area & make sure that the LED test light flashes on the Flushmaster.

After the LED flashes, there is a 20 second delay before the PIR starts sensing again.

After five minutes testing, the Flushmaster sounds a long beep to signal that test mode is complete & that normal operation has begun automatically.