

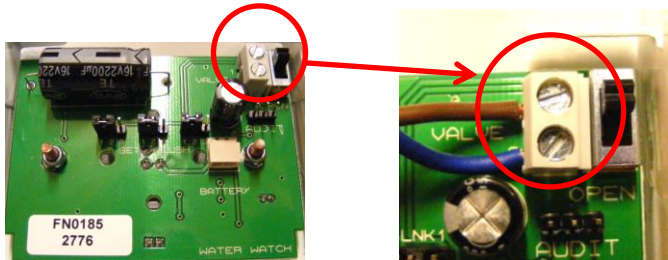
WATERWATCH INSTALLATION INSTRUCTIONS (BATTERY or MAINS) - PICTORAL

Steps required to install and calibrate a Marnic Waterwatch.

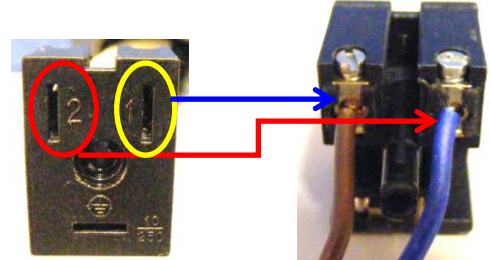
Step 1: Connect Brown and Blue wires to the circuit board (PCB) and solenoid plug as shown.

ENSURE that polarity is the same at both ends. Brown to 1 and Blue to 2.

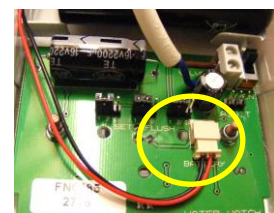
CIRCUIT BOARD END



SOLENOID PLUG END

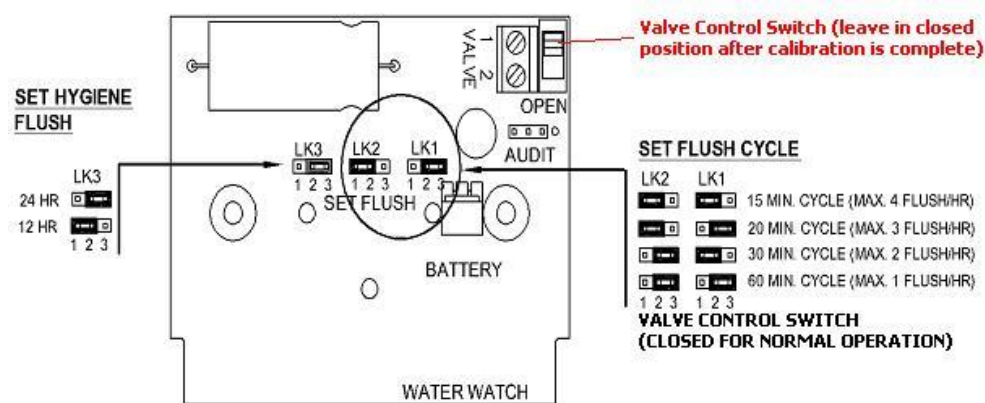


Step 2: Connect the plug from the battery or mains transformer to the



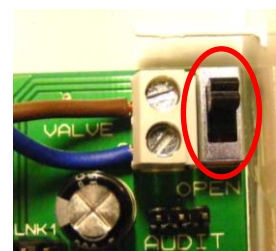
PCB

Step 3: Set the jumper links to match your required hygiene period and maximum flush frequency.

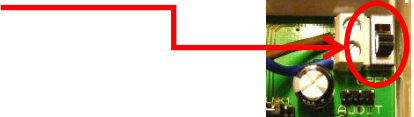
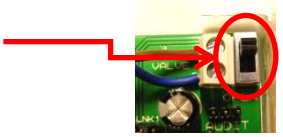


Step 3: Set up the fill time.

The fill time is set using the **SLIDER SWITCH** on the top right hand corner of the circuit board. This is next to the terminal block where the brown and blue wires were attached.



Procedure

1. Ensure that you start with a EMPTY cistern. If necessary, manually fill the cistern with a jug and allow to flush.
2. With the cistern empty, move the **SLIDER SWITCH** down to the open position. 
3. The valve should open and the cistern begin to fill.
4. Leave the **SLIDER SWITCH** in the open position while the cistern fills.
5. When the cistern begins to flush wait 10-15 seconds to allow the flush to fully establish.
6. Once the flush is fully established return the **SLIDER SWITCH** to the closed (up) position. 
7. Leave the **SLIDER SWITCH** in this position.
8. This will lock the FILL TIME on the circuit board.
9. Calibration is now complete. Fit the main case over the wall plate and secure using the dome headed bolt.

OPERATION EXPLAINED

It is important to understand that the valve will not open immediately the PIR sensor first detects movement.

There is a **delay period** which is the **difference** in time **between** the **flush frequency** and the **fill- time**.

Example: If 4 flushes per hour are required (15 min cycle) and the fill time is 5 minutes then the delay period will be 10 minutes (15 mins less 5 mins).

- If 3 flushes per hour are required (20 minute cycle) the delay time (on a 5 min fill) would be 15 mins.
- If 2 flushes per hour are required (30 minute cycle) the delay time (on a 5 min fill) would be 25 mins.
- If 1 flush per hour is required (60 minute cycle) the delay time (on a 5 min fill) would be 55 mins.

This is illustrated below.

1. First person enters washroom.  - Sensor  detects the movement but the solenoid stays closed. 
2. After the delay period the valve opens  and the cistern begins to fill. The valve stays open for the last 5 minutes of the chosen cycle (see bullets above).
3. After the fill time has elapsed the cistern should flush and the valve will close again. 
4. Any number of additional persons can enter the washroom during the whole of the cycle period without affecting the cycle which was triggered by the first person.
5. The next cycle will only be triggered when the next person enters the washroom .

WaterWatch is Designed & Manufactured in the UK by: **Marnic Technology Ltd**, Stockport, Cheshire.

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