



WaterSwitch3

User Guide

LeakSafe ™

1. OPERATING INSTRUCTIONS

1.1: Turning water on/off from the Wireless On/Off Switch

Turning the water OFF

Press "OFF". The blue LED indicator on the switch will flash and beep, the Water Valve Control will beep twice to confirm a wireless signal has been received, and the wireless switch will flash red and beep twice to confirm that the command has been acknowledged. The valve will close.

To turn the water ON

Press "ON". The blue LED indicator on the switch will flash and beep, the Water Valve Control will beep once to confirm a wireless signal has been received, and the wireless switch will flash green and beep once to confirm that the command has been acknowledged. The valve will open.



1.2: Turning the water off with a timed delay from the Wireless On/Off Switch

The Wireless Switch incorporates a 1, 2 or 3 hour valve shut off delay function for instances when appliances using water need to complete their program. Activate the delay timer by pressing either 1h, 2h or 3h. The blue LED indicator on the switch will flash and beep, the Water Valve Control will beep three times to confirm the wireless signal was received, and the blue LED on the wireless switch will flash & beep 3 times to indicate that the command has been acknowledged. The valve will close after the chosen delay. To override a programmed delay, press "ON".

1.3: Turning water on/off from the Water Valve Control

Turn the water off by pressing "OFF" on the Water Valve Control it will beep twice. The valve will close.

Turn the water on by pressing "ON" on the Water Valve Control. You will hear 1 beep and the valve will open.



1.4: Operating Instructions Water Flow Meter (if installed) – Continuous Flow or No Flow





Once set, the Continuous Flow and No Flow program is automatic.

Continuous Flow: If water flows continuously for more than the programmed time, the system will assume there is a leak in the property, the valve will close and the Water Valve Control will alarm. See Section 3.2 for reset instructions.





No Flow: If no water is detected flowing through the Flow Meter for the duration of the programmed time, the system will assume the property is empty and close the valve. Switch the water on again by pressing "ON" on either the Water Valve Control or Wireless On/Off Switch.

2. INDICATORS AND ALARMS

LEAK ALARM

-  Rapid beeping for 15 seconds then 1 red flash & 1 beep every 60 seconds
VALVE CLOSED DUE TO MAINS POWER FAIL
(if this option was selected)
-  Rapid beeping for 15 seconds then 2 red flashes & 2 beeps every 60 seconds
VALVE CLOSED DUE TO A WATER LEAK BEING DETECTED
-  Rapid beeping for 15 seconds then 3 red flashes & 3 beeps every 60 seconds
VALVE CLOSED DUE TO WATER CONTINUOUS FLOW TIMER BEING EXCEEDED
-  3 red flashes & no beeps every 60 seconds
VALVE CLOSED DUE TO NO FLOW TIMER BEING EXCEEDED

VALVE OPERATING

-  Green flashing every second & 2 beeps
VALVE CLOSING
-  Fast green flashing every 0.5 second & 1 beep
VALVE OPENING
-  Solid green
WATER VALVE CONTROL OPERATING ON MAINS POWER
-  Green flash every 10 seconds
WATER VALVE CONTROL OPERATING ON BATTERY POWER

WARNING

-  1 orange flash & beep every 60 seconds
LOW BATTERIES, CHANGE BATTERIES ASAP
-  4 orange flashes & 4 beeps every 60 seconds
VALVE HAS BECOME DISCONNECTED FROM WATER VALVE CONTROL (if this option was selected)

PLEASE NOTE:

If your Valve Control is mains powered and has a flow meter installed the WARNING light will flash (no beeps) when water is flowing through the meter.

3. RESETTING AND OPENING THE VALVE AFTER A LEAK ALARM

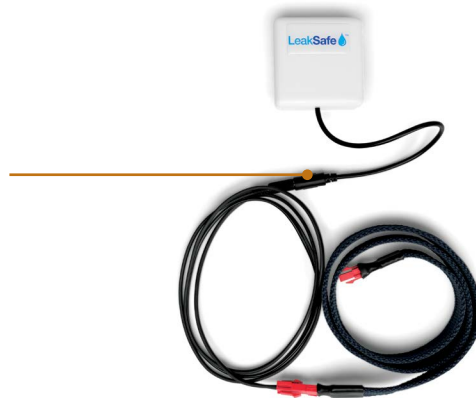
3.1: Resetting the system after a leak has been detected

The Water Valve Control will shut the valve on the incoming water main or pipe if a leak detection tape is in contact with water.

1. Press the "OFF" button on either the Water Valve Control or the Wireless On/Off switch - it will beep once and mute the alarm on the Water Valve Control - the valve remains closed.
2. If the alarm continues, and you have a detection tape directly connected to the Water Valve Control, unplug the tape then press "OFF" on the Water Valve Control to mute the alarm. If the alarm stops then this is the tape that has got wet. Go to step 5.



3. If directly connected tape is not the cause of the alarm, one of the wireless leak detector transmitters and tape installed in the property has instigated the alarm and will be beeping.
Find the wireless transmitter and tape that has got wet and disconnect the tape where it is plugged into the transmitter cable.
4. If it is safe to do so press "ON" on either the Water Valve Control or the Wireless On/Off Switch to reinstate the water.
5. Repair the leak and let the leak detection tape dry.
6. **Reposition and reconnect the tape once dry.**



Note: If when you inspect the wireless transmitters none are beeping, it is possible that the tape has got very slightly wet then dried. The transmitter will stop beeping when the tape is dry, but the alarm will continue to sound on the Water Valve Control so that you know an alarm has been raised. Press "ON" on the Water Valve Control or Wireless On/Off Switch to open the valve. If it is an intermittent leak the system will alarm again in the future.

3.2: Resetting the system after the Continuous Flow limit is exceeded

1. Press "OFF" on the Water Valve Control or Wireless On/Off Switch. It will beep once and mute the alarm – the valve remains closed.
2. If it is safe to do so press "ON" on the Water Valve Control or Wireless On/Off Switch to open the valve.

3.3: Isolating a leak and turning the water on

LeakSafe recommend you repair all leaks before the mains water is turned back on.

Where a detected leak is from an appliance e.g., a washing machine, and the leak can be contained by not using that appliance, it is possible to isolate that zone to allow the LeakSafe system to be reset and the water turned back on.

IF LEAK DETECTION IS DISABLED IN ANY PART OF A PROPERTY THAT AREA IS UNPROTECTED AND THE SYSTEM WILL NOT ALARM OR SHUT THE WATER OFF IF ANOTHER LEAK OCCURS IN THAT AREA.

THE DECISION TO DISABLE ANY PART OF A LEAKSAFE SYSTEM LIES WITH THE OCCUPIER AND LEAKSAFE ACCEPTS NO LIABILITY WHATSOEVER FOR THE CONSEQUENCES OF THAT DECISION.

To isolate a zone:

1. Unplug the leak detection tape protecting that zone from the Wireless Transmitter or Water Valve Control.
2. Press "OFF" on the Water Valve Control or Wireless On/Off Switch.
3. Press "ON" on the Water Valve Control or Wireless On/Off Switch to open the valve and restore water to the property.

IMPORTANT:

When the leak is repaired, REMEMBER TO DRY AND RECONNECT THE LEAK DETECTION TAPE IN THAT AREA.

3.4: Manual override on the Motorised Valve

To manually operate the valve, lift and turn the operating button. When the valve is open the red line in the valve status window is parallel to the water pipe and at right angles when closed. Push the operating button down again when you have finished turning the valve.



4. ESSENTIAL MAINTENANCE – PLEASE READ THIS SECTION

4.1: Test procedures:

LeakSAFE recommend that you test your system every 6 months and always before you leave a property for a period of time.

1. Turn the water off using the Wireless On/Off Switch. Check the water is off by opening a tap. Turn the tap off, turn the water back on and check that the water is now running. If you do not have a Wireless On/Off Switch installed, perform this test by pressing the “OFF” and “ON” buttons on the Water Valve Control.
2. If you have wireless leak detector transmitters and leak detection tape installed, unplug the tape from the transmitter and plug in the test cable supplied. Touch the metal pins together and check the valve closes and the system alarms. Reinstall the leak detection tape and reset the Water Valve Control (See Section 3). Repeat for each transmitter you have installed.

4.2: Replacing Batteries

Replace the batteries in your Water Valve Control and any Wireless Leak Detector Transmitters every 12 months to ensure continuous operation.

Replace the 2 x CR2032 lithium batteries in the Wireless Switch every 3 years.

General

The batteries in the Water Valve Control and any wireless leak detector transmitters are checked once a day. If battery power is low an alarm will sound/flash for 3-4 weeks. If the batteries in the Water Valve Control are not changed, the valve will remain in the position it is in when the batteries are exhausted.

4.2.1 Replacing the batteries in the Water Valve Control:

1. If the Water Valve Control is mains powered, turn off at the electric socket.
2. Unplug the valve and lift the Water Valve Control off its retaining screws.
3. Lift and remove the catch cover on the top of the case and press the catch underneath to release the front panel.
4. Remove the 3 x AA batteries and leave for at least 10 minutes to allow any residual power to drain.
5. Install 3 x new AA batteries, reassemble, reconnect the valve and test the Water On and Water Off function.

4.2.2 Replacing the batteries in a Wireless Leak Detection Transmitter:

1. Remove the transmitter from the wall/surface.
2. Remove cover and replace 2 x AA batteries.
3. Reassemble, test (see 4.1.2 above) and rehang the transmitter.

4.2.3 Replacing the batteries in the Wireless Switch

If the switch is fixed using self adhesive strips, carefully ease the switch off, or twist anticlockwise to release from the wall screws. Slide the backplate down to release the catches then ease the cover surround off by inserting a small flat bladed electrical screwdriver into the openings on the side of the switch and turn gently. The cover and switch assembly will come away from the backplate.

Install 2 new CR2032 lithium batteries into the battery compartments, reassemble and test.

4.3: Decalcification routine

Once every 4 weeks the LeakSAFE Motorised Valve performs a decalcification routine by automatically closing the valve by one quarter, and then immediately re-opening it. This routine only part closes the valve and will not interfere with any appliances that are using water at the time.

Support, Installation & User Guides and FAQ's are available to view or download at www.leakSAFE.com/support

Supplementary Information – WaterSwitch3 Leak Detection System

Your Leaksafe WaterSwitch3 leak detection system has been installed with at least one automatic shut off valve that is larger than 28mm and requires a permanent 12V power supply to operate. The control equipment for this larger valve is called the WaterSwitch3 Valve Driver.



The operation of the Valve Driver is the same as that described in the WaterSwitch3 Valve Control User Guide Valve Control EXCEPT the ON and OFF buttons are on the side of the Valve Driver. GREEN for ON, RED for OFF.

Example: To manually turning water on/off (Section 1.3 in the WaterSwitch3 User Guide)

Turn the water off by pressing the RED button (OFF) on the side of the Valve Driver. You will hear two beeps and the valve will close.

Turn the water on by pressing the GREEN button (ON) on the side of the Valve Driver. You will hear a single beep and the valve will open.

Indicators and Alarms (Section 2 in the WaterSwitch3 User Guide)

The Indicators and Alarms are the same as described in section 2 of the User Guide EXCEPT the LEDs are viewed through the opaque cover at the top of the Valve Driver case.

Indicators and Alarms

- Green:
Valve Operating
- Red:
Leak/Flow Alarm
- Orange:
Warning

Value Status LED's

- Light Green:
Valve Operating
- Red:
Valve is closed



Manual override on the Motorised valve (Section 3.4 in the WaterSwitch3 User Guide)

To manually operate the valve, TURN OFF THE MAINS POWER TO THE VALVE DRIVER, then depending on the type of valve either:

1. Lift and turn the operating button. When the valve is open the red line in the valve status window is parallel to the water pipe and at right angles when closed. Push the operating button down again when you have finished turning the valve.



2. Remove the Alun key clipped to the side of the valve motor, insert into the hex socket and turn until the valve is in the desired position.



Replacing Batteries (Section 4.2 of the WaterSwitch3 User Guide)

To replace the back-up batteries in the Valve Driver, TURN OFF THE MAINS POWER TO THE VALVE DRIVER.

Remove the screws on each corner of the Valve Driver case to reveal the battery compartment. Remove the batteries and leave for 5 minutes to allow any residual power to drain. Install 4 x 1.5V C cell alkaline batteries. The Valve Driver will beep 3 times to confirm correct installation.



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