Key Features

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA manufactured NSF™ approved ball valve with patent pending one-way spring release</td>
<td>Proven quality and reliability</td>
</tr>
<tr>
<td>Audio alarm and LED indicator</td>
<td>See and hear the controller functioning</td>
</tr>
<tr>
<td>LeakLogic™ RISC based software</td>
<td>Low battery power management, controller monitoring, water leak detection sensitivity</td>
</tr>
<tr>
<td>Quick-Connect plumbing connections</td>
<td>Fast installation without the need for a plumber for tubing connections</td>
</tr>
<tr>
<td>Sensor with in-series connection capability</td>
<td>Ability to connect to many sensors needed to a single controller</td>
</tr>
<tr>
<td>Complete testing capability</td>
<td>Direct sensor testing</td>
</tr>
<tr>
<td>Multiple uses</td>
<td>Connect to many types of appliances and fixtures</td>
</tr>
<tr>
<td>Detachable Battery Holder</td>
<td>Ease in changing batteries in difficult to access locations</td>
</tr>
<tr>
<td>Separate 2 screw mounting plate</td>
<td>Mounts in difficult places in seconds without a template</td>
</tr>
<tr>
<td>Absorbent Sensor Mat</td>
<td>Increased moisture sensitivity</td>
</tr>
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</table>

Limited Warranty

Water Controller Products Inc. (WCP) has carefully tested and inspected the Leak Controller™ before shipment, and hereby warrants our products to be free of defects in material and workmanship for a period of 1 year from the date of the original purchase. You should replace your controller every 5 years since it is in constant contact with your water supply.

During the warranty period WCP shall, at its sole and absolute discretion, either repair or replace free of charge any of our products that prove to be defective on inspection by WCP or its authorized service representative. This warranty does not cover claims for damage due to abuse, neglect, alteration, or attempted repair by unauthorized personnel, and is limited to failures arising during normal use that are due to defects in material or workmanship in the product.

ANY IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE AS SETFORTH IN THESE INSTRUCTIONS, ARE LIMITED IN DURATION TO THE LENGTH OF THIS LIMITED WARRANTY. USE OF THIS PRODUCT IS NOT A REPLACEMENT FOR YOUR INSURANCE POLICY. IN NO EVENT WILL WCP BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES RESULTING FROM THE BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING, AMONG OTHER THINGS, DAMAGE TO PROPERTY. DAMAGE BASED ON INCONVENIENCE OR ON LOSS OF THE USE OF THE PRODUCT, AND, TO THE EXTENT PERMITTED BY LAW, DAMAGES FOR PERSONAL INJURY. THE LIABILITY OF WCP SHALL BE LIMITED TO REPLACEMENT OF THE DEFECTIVE PRODUCT.

This warranty only applies to products sold and used in North America. For warranty information in all other countries, please refer to your local distributor.

Getting Started

Package contents:
- Main LeakController™ controller module with attached 4 1/2-foot sensor cable
- 4 “AA” size alkaline batteries
- Metal Wall Mount Plate with 2 #8 mounting screws
- 1 sensor mat (paper towels OK for replacement)

* Additional sensors and cable lengths can be ordered

Quick Reference

- The Leak Controller is beeping, how do I shut it off?
  - Turn the knob clockwise until the LED light flash three tunes.

- The Leak Controller has activated due to one of the following:
  1. water touching the sensor (leak or spill) (4 flashes)
  2. low battery (2 flashes)
  3. maintenance mode (1 flash)

Check for leaks and fix if necessary. Dry sensor(s). Change the batteries if in doubt. Turn the knob clockwise until locked in position.

Now the Leak Controller is in normal open and ready position
Step 4: Mounting the Controller

Locate a clean, flat wall surface that is close and parallel to the water source to which you will be connecting. Make sure there is at least a 3” clearance from the top of the controller to leave room to change the batteries in the future. Find a wall stud (if possible); align the mounting plate on the wall with the single tab arm pointing up, and the tabs of the plate facing outwards away from the wall.

Drill a hole using the mounting plate as a guide, and drive the two #8 screws into the mounting plates holes and into the wall. Use wall anchors or toggle bolts if the wall is hollow. Attach the top tab receptacle on the controller to the top tab on the mounting plate, and then insert the two bottom receptacles on the controller to the two bottom tabs on the mounting plate and pull down.

- The controller should be flush against the wall, resist movement, and be able to be connected to your piping.

Step 5: Attaching the Water Tubing

The valve in the controller is a ball type with two connection points that have quick-connect fittings. The valve is not directionally sensitive so you can insert the incoming water tube and the outgoing tube on either side for your convenience.

Follow the diagrams below for correct insertions, locking, and removal procedures. You may find it easier to insert the tubing into the controller by removing the controller from the mounting plate, if you do, you must remount the controller to the mounting plate when you are done.

Once you have correctly inserted the tubing into the controller valve, you can turn your water source back on. There should be no leaks at either side of the controller valve, at the water source connection, or at the connection to the appliance. Check for leaks immediately at all locations.

Generally, if there is a leak it will occur immediately, if this occurs or there is an moisture around the valve connections, then close the valve on the water source and repeat steps 3 & 5.

Step 6: Placing the Sensor

This is a very important part of the installation. The sensor is the heart of the controller, and if water doesn’t touch the sensor it will not activate. Also, it is extremely important that the metal side of the sensor always remains facing down after the installation.

Once you have confirmed the sensor location, place the sensor mat in that area and then place the sensor on top of the mat. The sensor will work without the mat. The sensor mat is provided only to increase the area where water is drawn to the sensor. In those areas where it is not practical to lay the mat down, just place the sensor on a clean, flat surface.

Ordinary paper towels can be used as replacements for the sensor mat.

Every floor or seemingly flat surface has a slope to it, and as every location is different, care needs to be made at the placement of the sensor.

To confirm the path of the water in the event of a leak, take a plate or flat pie tin and place it to confirm the path of the water in the event of a leak, take a plate or flat pie tin and place it near where the sensor will be placed. Pour some water onto the plate and check the direction of the flow. Adjust the sensor’s position accordingly to this flow path to make sure in the event of the leak the water flows towards the sensor.

Additional sensors may be added to your system and may be purchased through our website.

To connect a second sensor, push the connectors at the end of the second sensor cable onto the metal connectors located under the sensor. Route the separate wires around the bottom part of the sensor and exit to the other end of the sensor.

To confirm that the second sensor is working properly, insert a coin or screwdriver into the sensor slots, this should replicate a leak condition, and activate the alarm feature on the controller. To confirm that the second sensor is working properly, insert a coin or screwdriver into the sensor slots, this should replicate a leak condition, and activate the alarm feature on the controller.

Step 7: Checking & Testing the Controller

There are two ways to check the system:

1. Check the Controller (see Step 2).
2. Testing at the Sensor. To test that your sensor and controller are working properly, insert a coin or screwdriver into the slot on the sensor. This replicates a leak condition, and the controller should close the valve to the red position, sound the alarm, and flash the LED.

To reset the system return the valve to the green position.

The controller should be tested every month, at the sensor(s) to confirm the system operation and to exercise the valve. Every month examine each sensor to confirm that it is laying metal side down on the sensor mat, and wipe the bottom of the sensor metal strips with a clean dry cloth.

Operation

Other than the recommended maintenance outlined above, your Leak Controller™ will operate automatically. In the event that the sensors detect a leak, the controller will close the valve to the red position, and sound an alarm. Please consult either the operation / troubleshooting guide for the recommended course of action in the event of a leak, or see step #7.

Low Battery

An additional feature the controller has is a maintenance mode. This can be activated in one of two ways. First, if the circuitry detects a low power response from the batteries. In this case the system will shut down, and after 4 days of alarming—close the valve.

Manual Valve Close

The controller’s valve can also be shut manually. To do this, push the manual close button located on the upper right side of the controller. This will release the latching mechanism and close the valve to the red position. To rearm the controller and open the valve, return the Knob to the green position.

Fold and place these instructions behind the mounted controller for convenient reference.

Specifications

- Internal Ball Valve 1/2” NPT with safety collar
- Power output: 6V
- 0-150 p.s.i. Pressure rating
- Battery Life: 2 years (normal condition)
- 33° - 140°F (1°-60°C) Temperature rating
- Weight: .90 lbs with batteries
- Dual O-ring quick connect Mgr-tek™ Fitting
- Size: 5/16” (x) 3/32” (w) x 1/4” (d)

Power: 4 x “AA” Alkaline Batteries

Operations / Troubleshooting Guide

We have the following matrix to help you quickly identify the most common conditions that exist with your Leak Controller™. In the event that you are still having problems with your product after consulting this guide, please contact us so we can be of immediate assistance to you.

- Please note that whenever the valve closes to the red position (except when testing), you must do the following:
  1. Change the batteries as described in step #1.
  2. Check and test the sensor and controller
  3. Look for leaks, it is possible that you had a leak and it has dripped

Operations / Troubleshooting Matrix

<table>
<thead>
<tr>
<th>Condition</th>
<th>Knob Pointing</th>
<th>LED Light</th>
<th>Speaker</th>
<th>Sensor</th>
<th>Battery</th>
<th>Recommended Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal/ Armed</td>
<td>Green</td>
<td>Off</td>
<td>Off</td>
<td>Red</td>
<td>Dry</td>
<td>Good</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TEST and examine sensor(s) when needed (at least monthly). Press button to confirm unit is operating.</td>
</tr>
<tr>
<td>LEAK</td>
<td>Red</td>
<td>4 Flashing (b)</td>
<td>On (b)</td>
<td>Red</td>
<td>Wet</td>
<td>Good</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Examine the sensor(s). Fix the leak, dry sensor(s), change the Knob to green, change batteries.</td>
</tr>
<tr>
<td>Low Battery Mode 41</td>
<td>Green or Red</td>
<td>3 days (long)</td>
<td>Red or Off (a)</td>
<td>2 Flashes</td>
<td>Off or Off (a)</td>
<td>8 Beeps</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Battery has gone into final shut-down mode as the batteries are almost dead. The valve should close but this 8 flash mode indicates the valve fail to close due to weak battery.</td>
</tr>
<tr>
<td>Low Battery Mode 42</td>
<td>Valve did not shut</td>
<td>Green</td>
<td>Flashing or Off (a)</td>
<td>8 Flashes</td>
<td>Off or Off (a)</td>
<td>8 Beeps</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>Battery has gone into final shut-down mode as the batteries are almost dead. The valve should close but this 8 flash mode indicates the valve fail to close due to weak battery.</td>
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- (a) The LED may not be working due to the batteries dying. Any alarm mode the controller will flash and beep until the system is reset or until the battery dies.
- (b) On LEAK condition, the controller will continually flash and beep 4 times together until it is silenced by pressing the button. The LED will continue to flash until the valve is opened and the sensor is dry.

ALWAYS CHECK THE SENSOR(S)