

# houEvolve

## Water Presence Detector with Optional Valve Control Installation and Configuration Guide

# Introduction

Thank you for purchasing a FREEVOLVE™ product. We designed it to provide you with years of reliable service.

The following setup instructions will help you get up and running quickly, and while we hope all our products are self-explanatory, the enclosed user guide should cover all questions you may have. Please refer to the “Support” section of our website – [www.freevolve.com](http://www.freevolve.com) – for additional information.

All FREEVOLVE™ products are covered against manufacturing defects for a period of 2 years from the date of purchase. During the warranty period we will replace any defective unit free of charge.

# Installation and Configuration

The Water Presence Detector Module is supplied with three Water Sensors, a 25ft network cable and two mounting screws<sup>1</sup>. Additional sensors are available separately (each module supports up to six).



1. Using the screws provided, mount the Water Pod on the wall at a protective height, above the level monitored for water presence.
2. Place the enclosed water sensors in the area to be monitored
3. Power the Water Presence Detector (WPD) Module by connecting it to the houseEvolve system using the network cable provided (in Stand-Alone mode, use the enclosed AC-DC adapter instead).
4. Connect each sensor to an available port on the Water Presence Detector Module. If the sensor is properly recognized, the WPD will beep once and the corresponding sensor light will begin to blink.

## NOTES:

- When a sensor becomes wet, the corresponding sensor light on the WPD will turn on solid and the beeper activates. To silence the water presence alarm, press the “Silence” button. The alarm will re-activate if additional sensors become wet.
- If one or more sensors are no longer detected by the WPD, the corresponding light(s) will turn on solid and the beeper activates. Check the connection to all sensors as well as for signs of damage on sensor cables. To remove a water sensor without triggering an alarm, hold down the “Silence” button while disconnecting the sensor.

There are no configuration requirements for this houseEvolve component module.

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<sup>1</sup> In Stand-Alone mode, a 15V AC-DC adapter is also included

## Using the housEvolve Water Presence Detector Module with optional water shutoff valves



Each Water Presence Detector Module can operate up to two water shutoff valves. This capability is useful for local water flow control applications where access to both hot and cold water pipes is desired.

### Installation:

1. Insert the valve(s) inline the water pipe at the desired shutoff location (professional installation recommended). Make sure the water flow direction matches that indicated on the valve (metal arrow on top of the valve body, next to the solenoid mounting socket). Although the valves may be installed in any position, the solenoid UP position is preferred as it will minimize the harmful long-term effects of mineral deposits inside the valve body.
2. Connect the valve(s) to the WPD. It does not matter which valve port is used (1 or 2), as closing/opening activations apply to both ports at the same time
3. Test valve operation using the valve control buttons on the WPD (Open/Close)

### Operation:

A WPD will automatically shut off any valves connected to it if any of its sensors detect the presence of water. If the WPD is part of a housEvolve system, the water presence condition is reported to the homeowner over the phone. Global On/Off control is available from the Main Controller or over the phone for all water valves connected to the system.

### Maintenance:

Test the valves every six months by closing them and verifying lack of water flow and then opening them again, to ensure that mineral deposits do not impede their operation.

### housEvolve water shutoff valve characteristics:

- Can be operated during power outage conditions
- Available in ½", ¾" and 1" pipe diameters
- Female NPT thread at the intake and output ports

## Installation Troubleshooting

<b>Problem</b>	<b>What to do</b>
I connected a water sensor to the WPD but the corresponding port light remains off	<ol style="list-style-type: none"> <li>1. Make sure that the sensor cable connector is inserted all the way into the WPD port. You should feel it click in when a proper connection is made.</li> <li>2. Double-check that you are referencing the proper port indicator light (it is the one immediately to the right of the port).</li> <li>3. If these steps fail to correct the problem, the sensor is defective. Please contact Freevolve for a free replacement. Your Water Presence Detector Module will continue to operate with the remaining sensors.</li> </ol>
Following a water incident, the WPD continues to report water presence even though the monitored area is now dry	<p>The WPD will continue reporting the presence of water until the sensors themselves dry off. Water may remain in the sensor enclosure for a while after the monitored area has been dried.</p> <p>Repeated water presence incidents can, over time, deposit minerals on the sensor which can cause erroneous readings. Affected sensors need to be replaced.</p>
There is no water present but an alarm has triggered	<p>The WPD will also generate an alarm (quick beep succession) if it can no longer detect one or more sensors. Check that all sensors are still connected to the WPD, and also check all sensor cables for damage.</p>