

## HS-WV100+ Z-Wave Valve Controller

### OVERVIEW & INSTALLATION

HS-WV100+ is a valve controller system that is designed to control the flow of water when Z-Wave commands are received. It may be used with compatible home automation systems (and sensors) to mitigate water damage when leaks are detected. It may also be used for a variety of other automated or remotely controlled water or irrigation needs.



#### Install Electronic Water Valve

The included electronic water valve must be installed into the existing plumbing. For whole-building protection, the valve should be installed where it can turn off all of the water entering the premises. In a residential setting this is typically on the main water line coming into the house. Variations in plumbing make it impossible to provide detailed instructions for your installation. Your situation may require rerouting the water line, or other changes to your plumbing. It is **your responsibility** to check with your local codes department to determine if a licensed plumber is required to install the Electronic Water Valve.

**\*\*\* CAUTION - Do NOT insert fingers into the valve as this may cause serious injury!**



#### Install HS-WV100+ Z-Wave Water Valve Controller Unit

The water valve controller unit should be positioned near the electronic water valve.

1. Mount the water valve controller to the wall using appropriately sized hardware (not included).
2. Attach the electronic water valve cable to the "VALVE" connector on the water valve controller.
3. Attach the supplied power adapter to the "DC12V" connector on the water valve controller.
4. Power the system by plugging the power adapter into a wall outlet.

### Z-Wave Network Installation

**Inclusion** (Use this procedure to add the HS-WV100+ to your Z-Wave network).

1. Put your home automation controller into 'inclusion' mode. Consult your system's manual for details.
2. Press the "program" button on the water valve controller unit. Wait for the process to finish.

**Exclusion** (Use this procedure to remove the HS-WV100+ from your Z-Wave network).

1. Put your home automation controller into 'exclusion' mode. Consult your system's manual for details.
2. Press the "program" button on the water valve controller unit. Wait for the process to finish.

**Reset** (Use this procedure to reset the HS-WV100+ to factory default settings when the network primary controller is missing or otherwise inoperable).

1. Press and hold the "program" button on the water valve controller unit for 15 seconds. The LED will blink rapidly.
2. When the LED turns off, release the program button. Your water valve controller unit is now reset.

### OPERATION

#### Remote Valve Operation (use this procedure for remote or automatic control of the water valve)

HS-WV100+ valve controller behaves like a Z-Wave "binary" device, with "ON" and "OFF" values, when added to most home automation systems.

**Open Valve** - Issue "ON" command from Z-Wave controller or Z-Wave compatible home automation system.

**Close Valve** - Issue "OFF" command from Z-Wave controller or Z-Wave compatible home automation system.

#### Local Valve Operation (use this procedure for convenient local control of the water valve)

**Open Valve** - Press and release the 'Open' button on the water valve controller unit to open the water valve.

**Close Valve** - Press and release the 'Close' button on the water valve controller unit to close the water valve.

#### Local Manual Valve Operation (for use in the event of a power failure or water valve controller failure)

**Open Valve** - Pull the thumbwheel on the water valve housing up and rotate wheel counter-clockwise.

**Close Valve** - Pull the thumbwheel on the water valve housing up and rotate wheel clockwise.

### Z-WAVE ASSOCIATION INFO

The HS-WV100+ has a single Association Group, Group 1 also known as the "Lifeline" group. Four (4) NodeIDs can be SET into Group 1. Typically the Z-Wave system controller will be the most important member of Group 1.

### SPECIFICATIONS

<b>Operating Temp Range</b>	5°C to 80°C	<b>Power Supply</b>	12 VDC, 1A, UL (US, Canada), FCC
<b>Z-Wave Frequency   Range</b>	908 / 916 MHz (US)   Up To 300 Ft line of sight	<b>Valve Type</b>	Motorized Ball Valve
<b>Controller Certification</b>	Z-Wave Plus	<b>Valve Certification</b>	NSF

<b>LED INDICATOR</b> - The blue LED on the face of the water valve controller unit indicates the current operating mode.	
<b>LED</b>	<b>Mode</b>
OFF	Power is off
BLINKS slowly	Not joined to a Z-Wave network - Press the Z-Wave button to join
BLINKS quickly after pressing Z-Wave button	Sent a Z-Wave Node Info and attempting to either Include or Exclude from a Z-Wave network. Expires after about 10 seconds if not joined
BLINKs very quickly	The sensors from the valve are in an invalid state. This happens while the valve is in transition or if there is a fault in the wiring.
WINKs ON	If the LED is OFF most of the time and briefly “winks” ON every 2 seconds, then the valve is CLOSED and the HS-SV100+ is joined to a Z-Wave network
WINKs OFF	If the LED is ON most of the time and briefly “winks” OFF every 2 seconds, then the valve is OPEN and the HS-SV100+ is joined to a Z-Wave network
<b>TROUBLESHOOTING</b>	
<b>PROBLEM</b>	<b>SOLUTION</b>
Not Powering on - No LED lights	Check outlet for voltage: If there is no voltage check the fuse panel for thrown breaker. If voltage but no power, replace the power supply.
Unable to join to a Z-Wave network	Perform a Z-Wave Exclusion on the device first, then try re-including. If that fails, press and hold the Z-Wave button for 30 seconds to do a full Reset to Factory Defaults. Bring the water valve controller unit close to the Z-Wave system controller (3 feet or less).
Valve non responsive	Make sure valve is plugged into Z Wave Valve Controller. If it is still not responding to commands replace valve.
Any other questions	Contact HomeSeer (HomeSeer.com)

### LIMITED WARRANTY AND DISCLAIMER

HomeSeer Technologies, LLC will repair or replace, at its option, any part of the device, which proves to be defective in workmanship or material under normal use, in the USA except in the states of Alaska or Hawaii, for a period of one year from the date the device is purchased. During the warranty period, HomeSeer Technologies, LLC will repair and provide all parts necessary to correct such defects, free of charge, provided the device has been operated in accordance with the manufacturer's guidelines. The Customer will return the device to HomeSeer Technologies, LLC for testing and repair or replacement. Should you need service, during warranty period or beyond, contact HomeSeer to obtain return authorization before shipping your device to HomeSeer Technologies, LLC.

Except for the obligation to repair or replace the HS-WV100+ as stated herein, HomeSeer Technologies, LLC shall not be liable for any incidental or consequential damage caused by failure of the HS-WV100+ to function as advertised or expected.

HomeSeer Technologies, LLC technicians, will provide all warranty service and this warranty is void if the device has been opened or serviced by anyone other than a HomeSeer Technologies, LLC technician.

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HomeSeer Technologies, LLC does not guarantee the leak notification service in regards to notification of leaks. HomeSeer Technologies, LLC is not responsible for any value of water loss, commercial loss or any property damage, or for any other loss or damage caused or incurred as a result of the failure of the device and/or failure of the notification service.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. To know what your legal rights are in your state, consult your local or state consumer affairs office or your state's Attorney General.

Your state laws or local ordinances may require that a licensed plumber perform installation of this device. The manufacturer is not responsible for enforcement of your states law or local ordinances.

Damage limitation warning; In no event shall manufacture be liable for any incidental or consequential damages including water damage, damage to other property by water, loss of use of the product, loss of time, inconvenience, travel expense, lodging expenses, lost by damage to personal property, loss of income, profits or revenues.

This product employs or practices certain features and/or methods of the following U.S. Patents: U.S. Patent Nos.6,891,838, 6,914,893 and 7,103,511.