



EVC200 Quick Start Guide

Specifications

- The EVC200 can be included with, and controlled, using any compatible Z-Wave controller. The EVC200 also acts as signal repeater for the Z-Wave network, extending the Z-Wave transmission as part of the “mesh network”. The EVC200 is designed to work with an existing ball valve. If your water shut off valve is not a levered type, consult a plumber.
- The EVC200 is designed to be installed onto an existing levered type ball valve as detailed below. **Caution:** If you do not have experience installing and configuring EVC200 type devices, please consult a professional installer.

- Z-Wave Plus Certified
- Open/Closed toggle Button/Green LED indicator
- U.S. Standard Z-Wave Frequency
- Supported Valve Sizes: ½”, ¾”, 1”, 1.25” and 1.5”
- Requires 12V DC/1amp power, AC Adapter Included
- Wireless Range: 30M (line of sight)
- Close/Open Time: ~ 18 seconds
- High Torque Geared Valve Motor: ~ 11lbf (~15Nm)
- Male 6 pin PS2 connector (cable 38”/980mm)
- Universal AC Adapter Included (cable length 48”/1230mm)
- Note: Requires Z-Wave Controller or Gateway
- Optional Plug-In Wired Leak Sensor
- Optional Output for second "slave" Valve Robot, see Condo Kits
- Optional Integrated Ball Valve



Including the EVC200 Z-Wave Automatic Valve with a Z-Wave Controller

Including or Adding the EVC200 to a Z-Wave Controller: Place the Z-Wave controller in inclusion (learning) mode. Press the Stroke button 3 or more times rapidly (within 0.5 seconds). Once the controller has acknowledged the inclusion, the EVC200 has been included in the Z-Wave network with the controller. Exit the including mode and you should see the EVC200 Automatic Valve under your list of devices. Some devices (like the Vera controller) require that you reload or refresh the controller so it polls, identifies, and configures the new device. Once the configuration is complete, you can control the powered valve through your Z-Wave controller’s user interface. The valve supports Open or On command and Closed or Off command through a standard Z-Wave controller. The valve can also be open or closed with a single push of the stroke button on the unit, toggling from open to closed or closed to open. The valve can also be open/closed manually by hand by pushing the clutch pin.

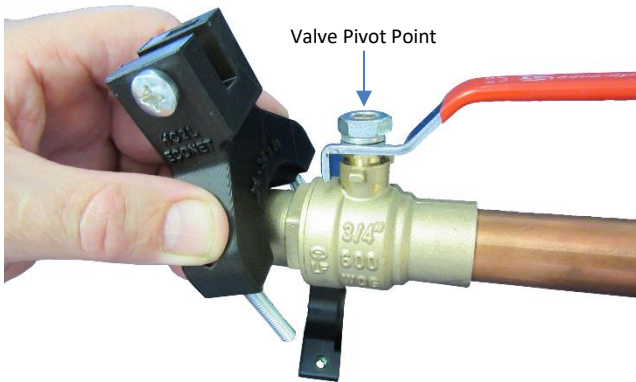
Excluding or Removing the EVC200 from a Z-Wave Controller: Place your Z-Wave controller in exclusion (un-learning) mode. Once the controller is in exclusion mode, bring the EVC200 close to the Z-Wave controller (several feet) and press the Power button 3 or more times rapidly (within 0.5 seconds). Once the controller has acknowledged the exclusion, the EVC200 has been cleared of any previous inclusions. (It is recommended to keep the EVC200 within 1M/3ft of the controller when including or removing)

There can be a number of reasons that the EVC200 does not work with your controller. If the inclusion process does not work the first time, repeat the process but try “excluding” first and then complete the “inclusion” process.

Mechanical Installation:

1. Attach HC2xx Mounting Bracket to valve collar

Position HC2xx mounting bracket over valve collar. Partially tighten bracket screws, evenly. The bracket assembly should stay in position but also allow rotation adjustments.



HC2xx Mounting Bracket Set

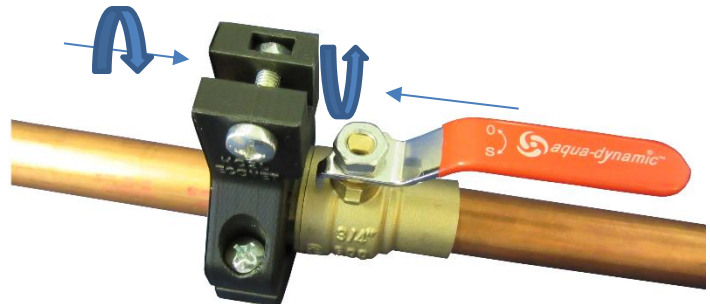
Bracket Screw

Tab Slot

Valve Mounting Collar

Bracket Screw

Rotate bracket assembly in position with the Tab Slot in line and level with valve Pivot Point. Tighten screws x 2 and secure bracket assembly solid over valve collar..



2. Attach Motor Assembly, Pins & Control Module

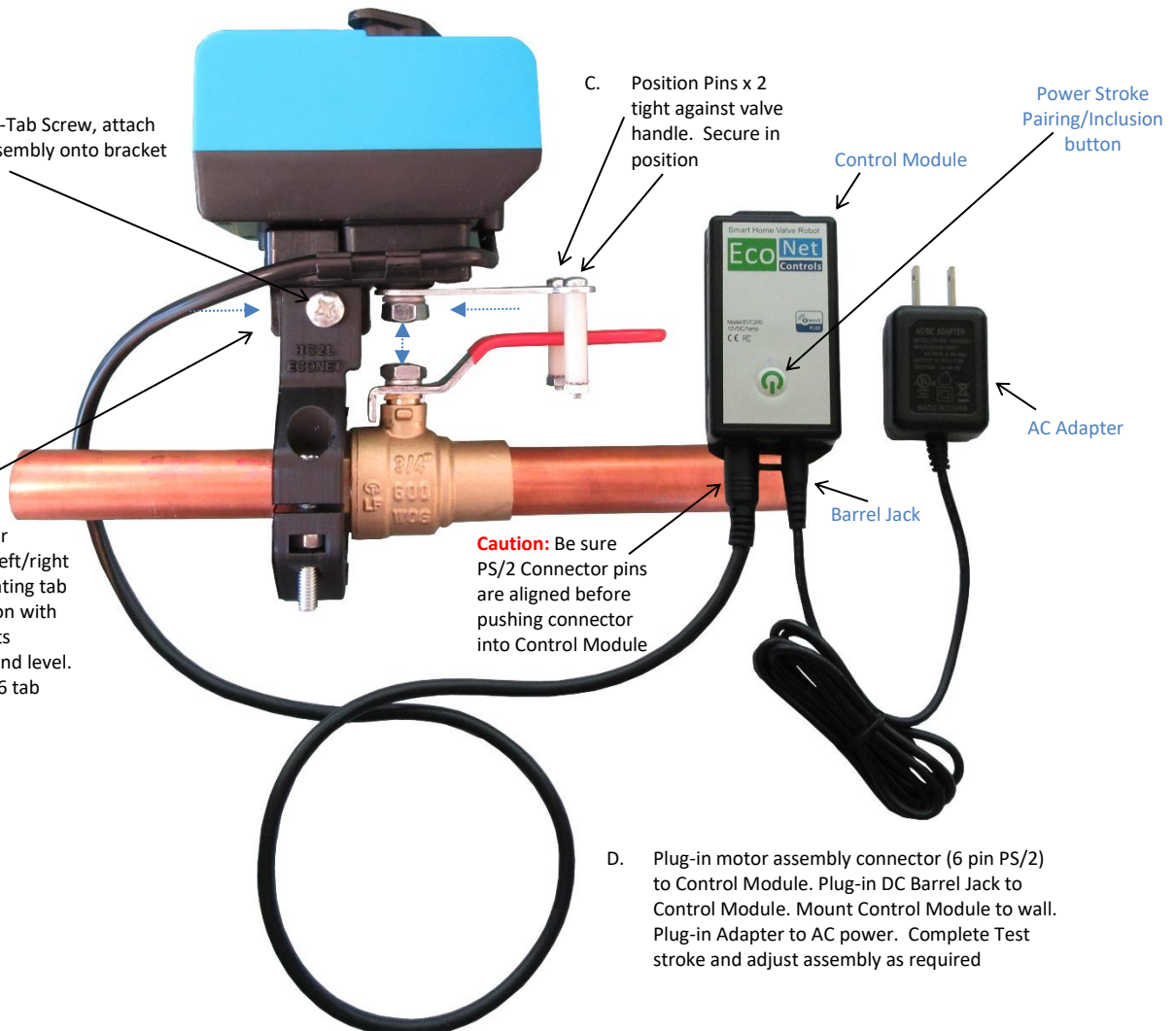
A. Using M6-Tab Screw, attach motor assembly onto bracket Tab Slot.

B. Slide motor assembly left/right over mounting tab and position with pivot points centered and level. Tighten M6 tab screw.

C. Position Pins x 2 tight against valve handle. Secure in position

Caution: Be sure PS/2 Connector pins are aligned before pushing connector into Control Module

D. Plug-in motor assembly connector (6 pin PS/2) to Control Module. Plug-in DC Barrel Jack to Control Module. Mount Control Module to wall. Plug-in Adapter to AC power. Complete Test stroke and adjust assembly as required



Control Module

Power Stroke Pairing/Inclusion button

AC Adapter

Barrel Jack

EVC200 Z-Wave Plus Commands:			
Z-Wave Network inclusion	<p>Putting your controller into inclusion mode (adding new devices). Press the Power button 3 or more times rapidly (within 1.5 seconds). It is recommended to keep the EVC200 within 1M/3ft of the controller. (Set controller to inclusion mode first)</p> <p>While waiting for inclusion/adding commands from controller, LED blinks 1 time per second. If after 30 seconds device is still not included (timeout), LED will blink rapidly for 1 seconds signaling an including/adding error.</p>		
Z-Wave Network exclusion	<p>Power the button 3 or more times rapidly (within 1.5 seconds). It is recommended to keep the EVC200 within 1M/3ft of the controller. (Set controller to inclusion mode first)</p> <p>While waiting for inclusion/adding commands from controller, LED blinks 1 time per second. If after 30 seconds device is still not included (timeout), LED will blink rapidly for 1 seconds signaling the including/adding error.</p>		
Device Reset	<p>Press and hold the Power button for 10 seconds. The device will send the reset notification to the list node in the group-1 and erases the device memory. The led light flashes acknowledging successful reset.</p> <p>Note: This should only be used in the event your networks primary controller is missing or otherwise inoperable</p>		
Association capabilities	<p>This device supports only the Lifeline Association Group which holds a maximum of 1 node ID. The only command sent to this group is the Device Reset Locally message.</p> <p>This device cannot be used to control other devices by association. The pushbutton only opens and closes the water valve connected to it.</p>		
Z-Wave Command Class	<p>COMMAND_CLASS_ZWAVEPLUS_INFO, COMMAND_CLASS_SWITCH_BINARY, COMMAND_CLASS_ASSOCIATION, COMMAND_CLASS_ASSOCIATION_GRP_INFO, COMMAND_CLASS_VERSION, COMMAND_CLASS_MANUFACTURER_SPECIFIC, COMMAND_CLASS_DEVICE_RESET_LOCALLY, COMMAND_CLASS_POWERLEVEL</p>		

If you have any questions or if you are experiencing any issues with the EVC200, please contact EcoNet Controls Support via email at support@EcoNetControls.com or by phone at 888-320-9188. For more details, please visit www.EcoNetControls.com.