



Smart Water Valve

User Guide

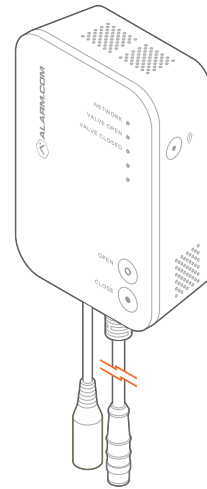
ADC-SWV100 / ADC-SWV100-EU

Installation precautions

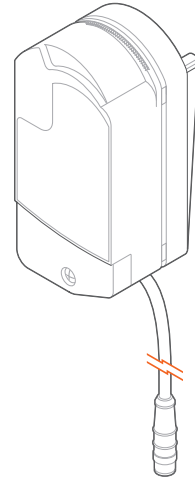
- Adhere to all relevant local codes and ordinances as they pertain to the Smart Water Valve. You are required to consult local plumbing codes and have appropriate licensing for the installation of this device.
- Never insert fingers or other objects into the Smart Water Valve. Inserting objects into the valve may result in damage or injury.
- The Smart Water Valve should only be powered using the supplied power adapter (supports mains voltage: 100-240 VAC ~50/60 HZ).

Do not apply power to the Smart Water Valve until the unit is fully assembled.

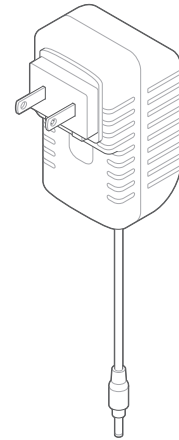
In the box



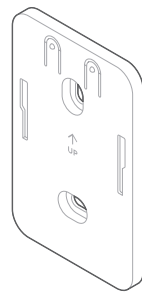
Smart Water Valve control unit



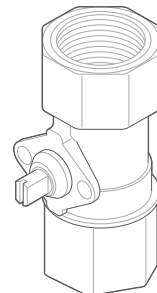
Actuator



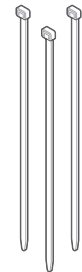
Power adapter



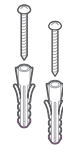
Wall bracket



Valve



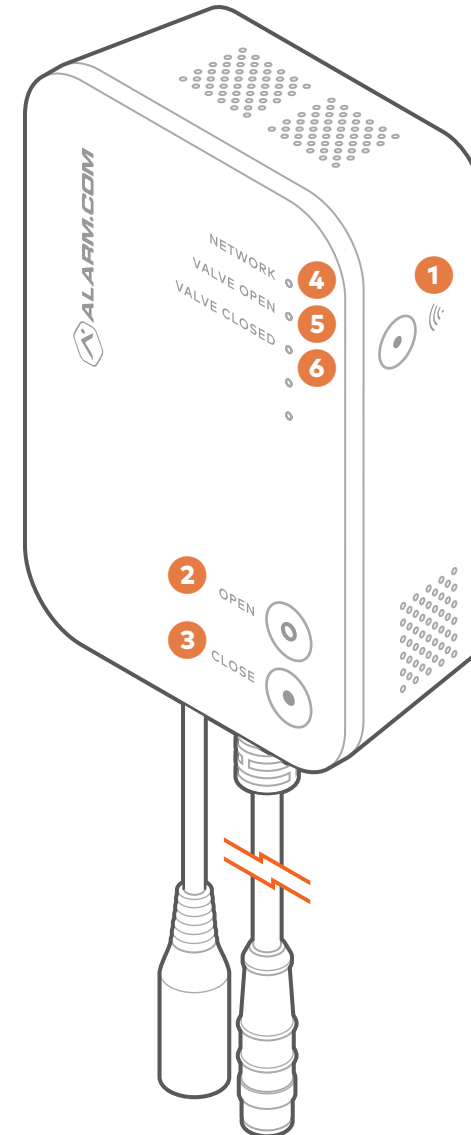
Cable ties (x3)



Wall anchors & screws (x2)

Additional parts requirements

Installation of the Smart Water Valve requires additional fittings to connect the ends of the valve to the pipe. The type of fittings needed will depend on the pipe material, industry standards, and applicable plumbing codes. Please see the "Specifications" section of the product packaging for more information on the pipe size and thread type of your specific Smart Water Valve.



Buttons

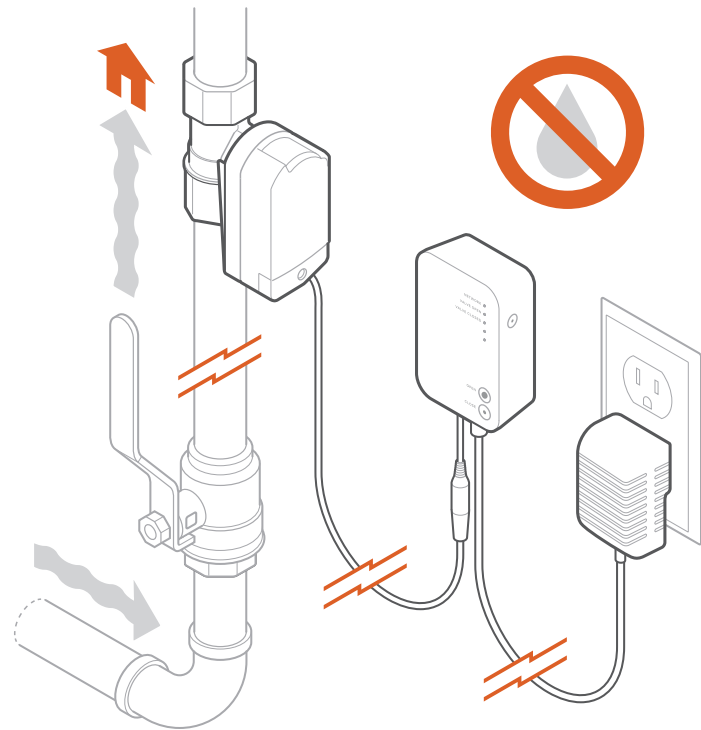
- 1 Networking** Places the device into learn mode. This button is also used to factory reset the device. See "Resetting the Smart Water Valve to factory default settings."
- 2 Open:** Opens the valve
- 3 Close:** Closes the valve

LEDs

- 4 Network**
 - **On:** Added to a Z-Wave network
 - **Blinking:** In learn mode
 - **Off:** Not added to a Z-Wave network
- 5 Valve open**
 - **On:** Open
 - **Blinking:** Opening
 - **Off:** Closing or closed
- 6 Valve closed**
 - **On:** Closed
 - **Blinking:** Closing
 - **Off:** Opening or open

If all LEDs are off, the device has no power. All LEDs will flash for five seconds during a factory reset.

Installation location



The Smart Water Valve must be installed:

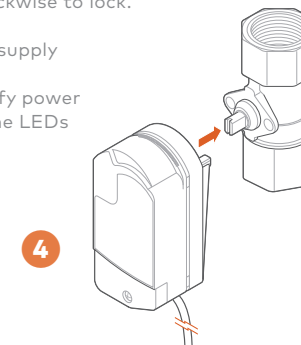
- In a dry, indoor location.
- Downstream from the main shut-off valve on the desired water supply line.
- With the control unit located above the valve. Use drip loops wherever possible to avoid damaging the electronics in the event of a leak.
- In compliance with all local plumbing and electrical codes.
- Within 20 feet of a wall outlet.
- Easily visible and accessible to the end user.

Water shutoff valves and leak detection devices should never be installed on a fire suppression system.

Installation

Installing the Smart Water Valve

1. Shut off the water supply line and drain the system.
2. Install the valve in the desired water supply line using appropriate fittings. See "Installation Location" for more information on choosing a location.
3. After installing the valve, turn the water supply on and ensure there are no leaks originating from the valve or connections to the valve.
4. Use a wrench or actuator to move the valve stem so that it is parallel to the valve. Line up the posts on the actuator with the holes on the valve. Connect the actuator to the valve by pressing on the actuator until it snaps into place.
5. Connect the actuator to the control unit using the attached cable. The connector is keyed to ensure proper alignment.
6. Mount the control unit to the wall using the supplied wall bracket and anchors.
7. Connect the power supply to the locking barrel connector on the control unit. Turn counterclockwise to lock.
8. Plug the power supply into the nearest wall outlet. Verify power by checking if the LEDs are illuminated.



Testing the Smart Water Valve

1. Open a tap or faucet downstream of the Smart Water Valve.
2. Press the close button and wait for the Smart Water Valve closed light to turn solid. Check that the valve has closed by verifying that no water is flowing from the open fixture.
3. Press the open button and wait for the valve open light to turn solid. Check that the valve has opened by verifying that water is flowing from the open fixture.
4. Close the open tap or faucet.
5. Add the Smart Water Valve to the Z-Wave network.

Adding the Smart Water Valve to the Z-Wave network

For best results, we recommend bringing the Z-Wave controller into the area where the Smart Water Valve is installed.

1. Put the Z-Wave controller into add mode. Refer to controller guide for more information.
2. Press the networking button on the side of the Smart Water Valve control unit to begin the add process. The network light on the control unit will begin flashing.
3. After the Smart Water Valve is successfully added, the network light on the Smart Water Valve will turn solid. If the network light is not illuminated after the add process, repeat Steps 1 and 2.

Troubleshooting


The Smart Water Valve is not communicating with the Z-Wave controller

1. Remove power from the Smart Water Valve. Wait at least 2 minutes before reapplying power and reattempting communication with the Z-Wave controller.
2. If Step 1 does not resolve the issue, try removing the device from the network (see "Removing the Smart Water Valve from the Z-Wave network") and re-adding it to the network.
3. If Step 2 does not resolve the issue, we recommend installing a Z-Wave repeater nearby and performing a Z-Wave network rediscovery.

Any wall powered Z-Wave device will act as a repeater and improve the range between the Z-Wave controller and the Z-Wave device you are installing.

Removing the Smart Water Valve from the Z-Wave network

For best results, we recommend bringing the Z-Wave controller into the area where the Smart Water Valve is installed.

1. Put the Z-Wave controller into remove mode. Refer to the controller documentation for more information.
2. Press the networking  button on the side of the Smart Water Valve control unit to begin the remove process. The network light on the control unit will begin flashing.
3. The network light will turn off if the remove process is successful. If the network light is still illuminated after the removal process, repeat Steps 1 and 2.

Resetting the Smart Water Valve to factory default settings

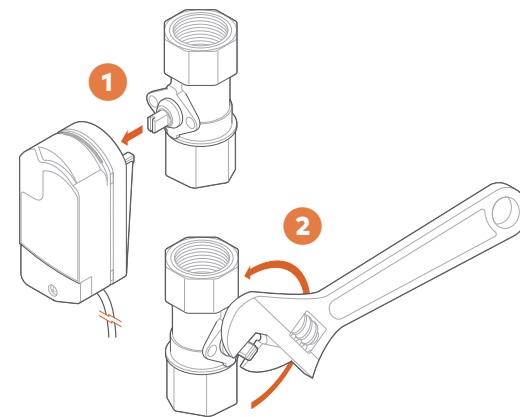
Caution: Resetting the Smart Water Valve to its factory default settings will remove the device from the network and restore all user settings to their default values.

Local Reset: Press and hold the networking button for 15 seconds. All three LEDs will blink for five seconds and the device will restart.

Manual valve actuation

In the event of a power loss or system failure, the Smart Water Valve can be manually actuated using the following procedure:

- 1 Remove the actuator from the valve by pulling the actuator away from the valve.
- 2 Use pliers, an adjustable crescent wrench, or a flat head screwdriver to move the valve stem to the correct position, as shown below.



Notices

FCC

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

NOTE: Changes and Modifications not expressly approved by Building 36 can void your authority to operate this equipment under Federal Communications Commissions rules.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

IC Notice

Under Industry Canada Regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

CE Notice

Hereby, Alarm.com declares that the radio equipment type ADC-SWV100-EU is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: <https://www.alarm.com/about/international/eu-red>

Frequency: 868.42MHz | Output Power: 2 mW

Questions?

Visit: www.alarm.com/supportcenter or contact your service provider



8281 Greensboro Drive
Suite 100
Tysons, VA 22102

190701
© 2019 Alarm.com. All rights reserved.
Designed in the USA by Building 36, an Alarm.com company. Made in the EU.