



## Z-WAVE WIRELESS WATER VALVE

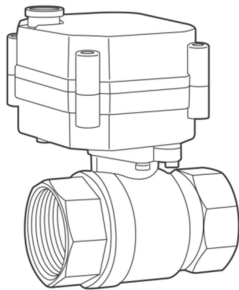
Z-Wave is the world's leading wireless smart home automation technology, providing affordable solutions for homeowner's convenience, allowing them to save time and money. Z-Wave has been incorporated into a range of devices capable of interacting with your household utilities and appliances.

With Z-Wave devices you can automate everyday tasks, like opening and closing windows, switching off lights, locking doors, adjusting room temperature and much more.

This zConnect water valve is a wireless Z-Wave enabled device and is fully compatible with any Z-Wave network with the same region Radio Frequency.

This zConnect water valve is designed for residential and light commercial usage, primarily for integration with home automation systems such as VeraEdge/VeraPlus/VeraSecure, Fibaro HC2/Lite or similar. As an example, you can combine this water valve with a Fibaro leak sensor. When the leak sensor detects water, it can trigger the scene in Fibaro software to automatically activate and instantly close the valve to prevent any further water leaking and damage. By adding multiple sensors, you can monitor leaks throughout your home and immediately shut off the main water supply. If you are away from your home or property where you might want to remotely turn the main water supply on and off, you can do it remotely from your smart phone or any internet enabled device via home automation application.

For irrigation solutions this device is a perfect match for Fibaro Home Center 2 sprinklers panel. You can schedule all sprinklers in your garden to automatically turn on and off.



### PACKAGE CONTENTS

1 x Z-Wave Wireless Water Valve

1 x Power supply 110 - 250 V AC 50/60 Hz, output 5V DC

1 x Quick User Guide

### PRODUCT DESCRIPTION

zConnect Z-WAVE WIRELESS WATER VALVE is an electromechanical device with a motor, z-wave control module and two-way ball valve that can be remotely or manually controlled to open / close water pipes.

This valve can be operated manually, which gives the ability to open and close the valve even in the absence of electricity.

### SPECIFICATION

Supply Voltage	5VDC, 110 - 250 V AC 50/60 Hz power supply
Operating temperature	from +1 ° C to 60 ° C
RF Power output	2 MW
Z-Wave RF	921.4 MHz ANZ, Brazil, Thailand
Power consumption when on	<0.72W
Power consumption in stand-by mode	<0.2W
Highest primary pressure	1.0 MPa
Dimensions	93 * 66 * 65 mm
Pipe sizes	15 mm (1/2 - inch), 20 mm (3/4 - inch)
Life cycle	400,000 cycles
Protection	IP-65
Power supply nominal input voltage (V in)	100 - 240 V AC 50/60 Hz
Power supply rated output voltage (V out)	DC 5V
The output current (I out)	1000mA
Power supply protection	IP-50 protection, short-circuit and overload



**ATTENTION! THE POWER SUPPLY OF THE DEVICE IS A 230 VOLT 50 HZ. OBSERVE SAFETY RULES DURING THE ASSEMBLY / DISASSEMBLY OF THE DEVICE. BEFORE INSTALLATION, YOU MUST TURN OFF THE WATER AND TURN THE POWER OFF UNTIL FULLY INSTALLED.**

BEFORE INSTALLING THE VALVE IT IS NECESSARY TO CHOOSE THE RIGHT PLACE OF INSTALLATION AND TO PROVIDE THE POWER FOR THE DEVICE. **IN AUSTRALIA, THE INSTALLATION OF THIS PRODUCT MUST BE CARRIED OUT IN AN APPROVED MANNER BY A SUITABLE QUALIFIED PLUMBING/ELECTRICAL CONTRACTOR IN ACCORDANCE WITH AS/NZS3000.**

**Note:** If you are installing a complete Z-Wave system for the first time, please refer to the installation guide of your Z-Wave Interface Controller before installing this device.

1. To Include the zConnect Z-WAVE WIRELESS WATER VALVE in Z-Wave network, set the controller into learning mode with NWI (see your controller manual for auto inclusion) and plug in zConnect Z-WAVE WIRELESS WATER VALVE power supply into a power point. The device will be added automatically (NWI). Wait until your Z-Wave controller has finished configuration.

2. If your controller doesn't support NWI mode or this valve was part of another Z-Wave network you'll need to reset this valve to the factory defaults.

a. Open the top cover (Figure 1) by unscrewing 4 cover screw and 1 manual override screw. Then locate inclusion/exclusion button on PCB (Figure 2)

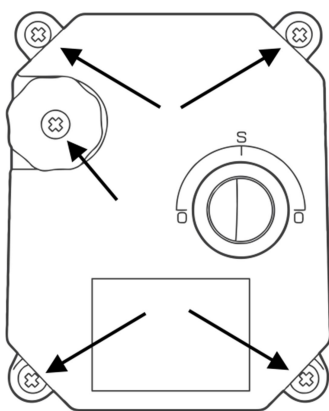


Figure 1

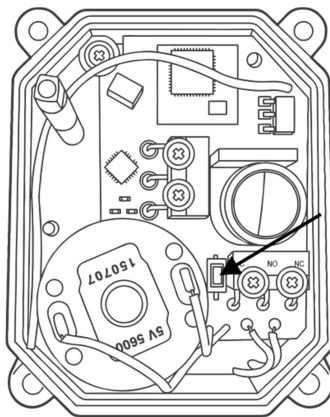


Figure 2

b. Set the controller into exclusion mode and press that button(shown in figure 2) once. You should see on controller interface that exclusion procedure was completed successfully. Next step is to set the controller into inclusion mode and press this inclusion/exclusion button again.

c. After inclusion you'll see new device in controller interface. For most Z-Wave controllers valve will be represented as switch ON/OFF

In some Z-Wave Gateways interfaces you can easily change the icon to an appropriate function. Let's see below how to configure zConnect Z-WAVE WIRELESS WATER VALVE as irrigation control device in Fibaro HC2/Lite.

a. Using NWI inclusion method described in part 1 connect Z-WAVE WIRELESS WATER VALVE as a new device.

To add device You should:

Set the duration of the learning period, then click ADD. During the learning period, simply activate the chosen device to add it to the system.

Duration of Learning Mode  Seconds

☒ Device is located far from the Home Center  
☒ NWI - Network-Wide Inclusion  
☐ Add in security mode if device supports it

### Configuration of the device

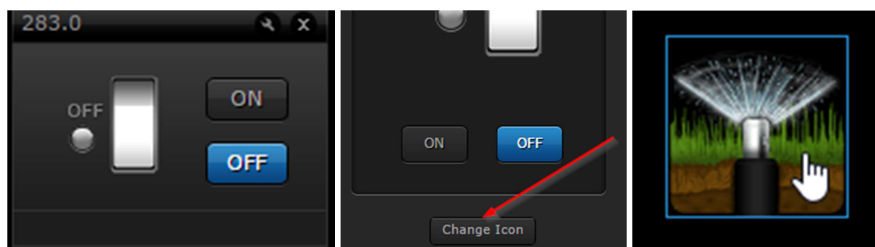
#### Device configuration in progress

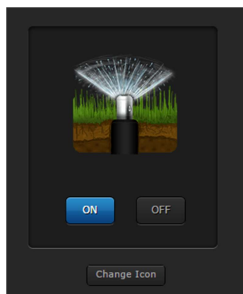
The device is now configured, it may take a few minutes depending on the type. Battery operated devices should be waken up. In order to simultaneously access the interface, click "Close". We recommend that you first complete the device configuration before adding the next one.

**In order to properly configure the device parameters and the association of the battery operated device, please wake it up.**

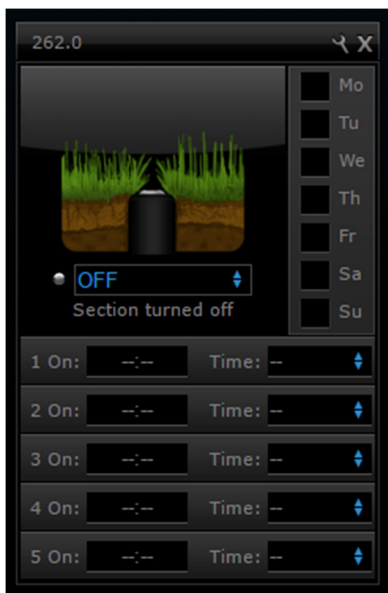
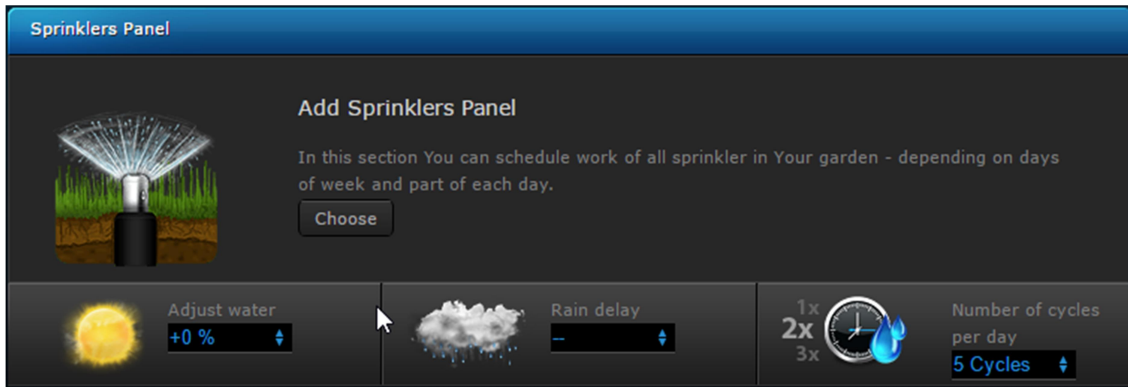
```
[17:30:55] Home Center in learning mode
[17:31:02] Device added
[17:31:13] Add node status protocol done
[17:31:13] Adding devices complete
```

- b. You'll see the new device as single switch. Change icon to irrigation and save.





Now you can use this device in the Sprinklers panel:



## Z-WAVE INTERFACE SETUP and PARAMETERS SETUP

You can change the device sequence of operations by using configuration parameter in Z-Wave controller interface settings if required. These setting are available in all Z-wave controllers. However in some controllers you will need to add parameter line if it's hidden in the system.

Z-WAVE WIRELESS WATER VALVE can be operated in 2 modes:

- Normal mode - close the electric valve when you turn OFF (displayed OFF), when the open (displayed ON);
- Reverse mode - open when turning OPEN the electric valve (displayed OFF), when the close (displayed ON);

Options allow you to change status of the valve - close the valve, and when turned off, on the contrary, open it. This can be used in cases where a logical switch means by a closed state and vice versa electro valve (normally open valve, security systems, etc.)

## PARAMETER № 1 - SELECTING THE OPERATING MODE for zConnect Z-WAVE WIRELESS WATER VALVE

Parameter value = 0 (OPERATE normally) - default

Parameter value = 1 (OPERATE in reverse mode)

## ASSOCIATIONS

Z-Wave devices can communicate with each other and exchange data and other information as to the central controller, and directly, without the participation of the controller. Each event can correspond to a list of recipients, a group called the Association. Refer to the owner's manual of your Z-Wave controller to configure associations.

zConnect Z-WAVE WIRELESS WATER VALVE provides two ASSOCIATIONS GROUPS (subject to controller implementation):

**Group 1** - the device (recommended to use controller in this group), which will get reports about changing the position of Z-WAVE WIRELESS WATER VALVE. Group size is - 3 devices.

**Group 2** - the device that will get status of valve movement. Group size - 10 devices

## MANUAL OVERRIDE

Manual Override should only be used when power has been cut

1. Lift the hand-wheel (Figure 3) and turn it left or right until the valve is in place (Figure 4)

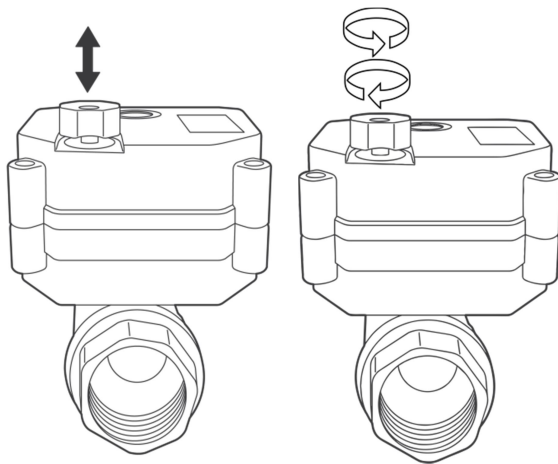


Figure 3

Figure 4

2. When the red line on the indicator is horizontal, the valve is on; when vertical, the valve is off.
3. Press down manual override wheel after using manual override in order for the valve to work properly when power is supplied.

## EXCLUSION FROM Z-WAVE NETWORK

1. Open the top cover (Figure 1) by unscrewing 4 cover screw and 1 manual override screw, locate inclusion/exclusion button (Figure 2)
2. Set the controller into exclusion mode and press that button once. You should see on the controller interface that the exclusion procedure was completed successfully.

## TROUBLESHOOTING

zConnect Z-WAVE WIRELESS WATER VALVE does not respond to Z-Wave gateway command:

- Make sure that the maximum range (30m) is not exceeded and the signal path is not obstructed by heavy metal obstacles such as metal beams, reinforced concrete mesh, etc.
- Make sure the device is not in the including/excluding mode, repeat the programming process.

## LEGAL

Specifications are subject to change without further notice

The information in this document is subject to change without notice. Digital Home Systems Pty Ltd (DHS) does not make any representations or warranties (implied or otherwise) regarding the accuracy and completeness of this document and shall in no event be liable for any loss of profit or any commercial damage, including but not limited to special, incidental, consequential, or other damage.

### TRADEMARKS

All trademarks and registered trademarks are the property of their respective owners or companies.

### DHS One (1) Year Limited Warranty

Digital Home Systems Pty Ltd warrants this DHS branded hardware product against defects in materials and workmanship under normal use for period of one (1) year from the date of retail purchase by the original end user purchaser ('Warranty Period').

PLEASE NOTE: breaking security label will void the warranty.

### Terms and conditions

To see complete terms and conditions browse to

[http://www.digitalhomesystems.com.au/images/stories/DHS\\_Terms\\_and\\_conditions.pdf](http://www.digitalhomesystems.com.au/images/stories/DHS_Terms_and_conditions.pdf)

Distributed by Digital Home Systems Pty Ltd in Australia and New Zealand

See all range of compatible devices at [www.digitalhomesystems.com.au](http://www.digitalhomesystems.com.au)

Enquiries Sales and Marketing Email: [office@dhsys.com.au](mailto:office@dhsys.com.au)

© 2016 Digital Home Systems Pty Ltd. All rights reserved.