Water Sensor User Manual



Thank you for your support Please read the user manual carefully before operating. Please keep the user manual for future reference.

Product Introduction

Water sensor is an intelligent security equipment that can transmit the Z-Wave network which has particular frequency. Different countries or areas, the radio frequency of Z-Wave is different. In the Z-Wave network communications, water sensor can work with any Z-Wave main controller. In the Z-Wave network communications, water sensor can send messages to the Z-Wave main controller, and realize association with other devices through the Z-Wave network. In the communication with the Z-Wave main controller, the water sensor can send messages to the Z-Wave main controller, but it can not receive messages from the Z-Wave main controller. When the water sensor is triggered, the LED light keeps on and the buzzer will make sound. The water sensor sends messages to the Z-Wave main controller at the same time, the Z-Wave main controller will display the current status of water sensor. Water sensor is battery powered, is small and can be installed easily.

Technical Parameters

- Flood detection
- Battery specification: CR2-3V x 1
- Standby current: 3uA
- Max current: 35 mA(In Radio Transmitter MODEL)
- Battery life: 2 years Radio Protocol: Z-Wave
- Radio Frequency: 868.4MHz EU;908.4MHz US
- Range: up to 80m outdoor;up to 40m indoor
- Operation temper: 0-40 °C
- Storage temperature: 0-60 °C
- Size (D x W x H): 68mm x 68mm x 34mm

Technical Information

- When alarm triggered, LED light flashes in the detection area.
- Fasily install with screws or sticker
- Detecting the location of the overflow timely and accurately
- reduce the economic losses caused by the overflow of water. Compatible with any Z-Wave main controller.
- High sensitivity and good stability.

What's in the box?

 Water sensor 	1pc
 Holder 	1pc
Battery	1pc
• Screw	2pcs
 Screw stopper 	2pcs
Probe	1pc
 User manual 	1pc

Product Configuration







1. Holder Installation Fix the holder with screws and screw stopper



3. Fix water sensor on the holder



With the detection cable, the detection range can be extended

4.Probe installation

Parameter Number: 5

Available Settings: 0.1

Parameter Size: 1

Default Setting: 1





1. When assembling the water sensor, please align the assembly mark. 2. When fixing water sensor on the holder, please align the induction foot and the induction contact

2. Do not install in the place near water vapor or smoke. 3. Do not install the water sensor main body and the probe in the place where water is soaked.

4. The sensor probe should be placed on the surface of the water

1 Make sure the water sensor is in the 7-Wave main controller's

Tips

5. Direct association is allowed between water sensor and other Zwave network devices if preset association functionality. Z wave gateway does not take part in such communication. Using this mechanism, water sensor can communicate with other devices even when gateway is damaged.

LED Color Indicato

LED Color	Led Display Status	Description
	Blink 5 Times (1s Interval)	Power on and Not Add in Z-Wave Network
	Blink 5 Times (500ms Interval)	Press Button tripled, Adding siren in a Z-Wave Network or Send Node Info.
Red	Blink 5 Times (300ms Interval)	Power on and Already Add in a Z-Wave Network
	Blink 1 Time	Press the Button Long Time, Reset the Plug torestore default settings;
	Blink with Beep On/Off	Detect water leakage

Network Configuration

Add Water Sensor to Z-Wave Network

The water sensor can be included to the Z-Wave network by pressing the code button.

- 1. Disassemble the water sensor and insert the battery into the water sensor. Make sure the device locates within the network of the 7-Wave main controller.
- 2. Set the Z-Wave main controller into the learning mode (see main controller's operating manual). 3. Quickly, triple click the code button, LED light flashes red for
- 4. Water sensor will be detected and included in the Z-Wave
- 5. Wait for the main controller to configure the water sensor.

Note:Power to the code, the device is plugged into the power 20S can not have

Remove Water Sensor from Z-Wave Network

1. Make sure the sensor is connected to power source.

2. Set the Z-Wave main controller into the learning mode (see main controller's operating manual). 3. Quickly, triple click the code button, LED light flashes red for 5

4. Wait for the Z-Wave main controller to delete the sensor.

Restore the Water Sensor to Factory Default Settings Reset procedure will delete all information on the Z-Wave network and Z-Wave controller, and restore the sensor to

- factory default settings. 1 Remove the device cover
- 2. Make sure the water sensor is connected to power source. 3. Press the reset button for 10 seconds, LED light flashes red for
- 4. Release the button.

Note: When the water sensor is being restored factory settings, please make sure power source is connected.

1.The Guarantee is provided by our company (hereinafter "Manufacture")

2. The Manufacturer is responsible for equipment malfunction resulting from

3. During the Guarantee period, the Manufacturer shall repair or replace any

physical defects (manufacturing or material) for 12 months from the date of its

Wakeup the Sensor Manual

Guarantee

User can press button once to wake-up this sensor to send wakeup notification to controller, the Led will be blink one time.

Associations

This Sensor supports 4 association groups. Each group supports max 5 associated nodes

This has the effect that when the sensor is triggered, all devices associated with the sensor will receive the relevant reports. Through an association the sensor may control another Z-Wave network device, e.g. siren device, wall plug, lamp etc.

GROUP 1 is lifeline service that assigned to Sensor (Water leakage detector) status. It enables the sensor to send reports and readings to Z-Wave Controller or Z-Wave Gateway whenever the sensor is triggered. This Group Support: NOTIFICATION REPORT V4.BATTERY REPORT. SENSOR BINARY REPORT V2, DEVICE RESET LOCALLY NOTIFI CATION

GROUP 2 allows for sending control commands to associated devices such as relay module, lighting, etc. This association group is configured through the advanced parameters no. 7. If the sensor clears the Notification Event that a Basic Set with

0x00 is sent to the nodes associated in Group 2 in order to turn off the device. This Group Support:BASIC_SET.

GROUP 3 allows for Send Notification to associated devices in this group. This Group Support:NOTIFICATION_REPORT_V4

GROUP 4 allows for Send Notification to associated devices in this group. This Group Support:SENSOR_BINARY_REPORT V2

Advanced Configuration



1. Configuring Alarm Duration Time

This configuration parameter that can be used to adjust the time for beep and LED turned on when water leakage is detected. If this parameter is set to '0', the beep and LED will be turn on always until water leakage is not detected. Prefer Parameter Number: 1 Parameter Size: 1 Available Settings: 0-255min

2. Configure Alarm Interval

Default Setting: 120min

This Parameter defines beep on /off interval time when water leakage is

detected.Prefer to Figure 1. Parameter Number: 2 Parameter Size: 1 Available Settings: 1 - 255min

Default Setting: 1min

Default Setting: 5s

2. Battery Installation

3. Configure First Alarm On Time Duration

This parameter defines beep on duration first time when water leakage is detected.Prefer to Figure 1 Parameter Number: 3

Parameter Size: 1 Available Settings: 1 - 255s Default Setting: 60s

4. Configure Alarm on Time Duration

This parameter defines beep on duration after fist beep on when water leakage is detected. Prefer to Figure 1. Parameter Number: 4 Parameter Size: 1 Available Settings: 5-255s

5. Configure Alarm Enable/Disable

This parameter defines been on is enabled or disabled when water leakage is detected '0' indicate been on is disable, but LED will be turned on when water leakage detected, '1' indicate been on is enabled, the BEEP and LED will be turned on when water leakage detected.

6. Configure Water Leakage Detected Enable/Disable This parameter defines the function than water leakage detect is enabled or

disabled. '0' indicate disable water leakage detect, '1' indicate enable water leakage detect. Parameter Number: 6 Parameter Size: 1 Available Settings: 0,1

Default Setting: 1

Value:0x00

Parameter Number: 7

Default Setting: 255

Available Settings: 0-99.255

Parameter Size: 1

7. Basic Set Level Basic Set Command will be sent where contains a value when the door/window is opened or closed, the receiver will take it for consideration; for instance, if a lamp module is received the Basic Set Command of which value is decisive as to how bright of dim level of lamp module shall be. SENSOR BINARY REPORT Sensor Type: SENSOR DOOR WINDOW

Binary Sensor Report Command:

Notification Command Class

Notification Report Command:

Command: NOTIFICATION REPORT

Command: NOTIFICATION_REPORT,

nodes in lifeline

Command Class

Event Present:

OWN LOCATION

Event Clear:

Once the detector detected a water leakage, it will send

Command Class: COMMAND CLASS NOTIFICATION

Command Class: COMMAND CLASS NOTIFICATION,

Notification Type: NOTIFICATION TYPE WATER ALARM

Notification Type: NOTIFICATION_TYPE_WATER_ALARM,

Event:NOTIFICATION EVENT WATER ALARM NO EVENT

NOTIFICATION REPORT and SENSOR BINARY REPORT to the nodes of lifeline

to inform there is a water leakage event. When water leakage is not detected.

For compliant to Z-Wave 300 Series, There also realize the Binary Sensor

NOTIFICATION REPORT and SENSOR BINARY REPORT will be sent again to the

Event:NOTIFICATION EVENT WATER ALARM WATER LEAK DETECTED UNKN

Event Present: Command Class: COMMAND_CLASS_SENSOR_BINARY Command: SENSOR BINARY REPORT Sensor Type: SENSOR_WATER

Event Clear:

Command Class: COMMAND CLASS SENSOR BINARY Command: SENSOR BINARY REPORT Sensor Type: SENSOR WATER Value: 0x00

Battery Check Command

The users can also enquire the battery status of the water detector by sending BATTERY_GET command. Once the water detector receivers the command, it will return BATTERY REPORT command. The water detector will send BATTERY LEVEL = 0xFF command to the Z-Wave Controller to inform that the water detector is in dead battery status otherwise BATTERY LEVEL value range is 0% to 100%.

Wakeup Command Class

The water detector stays in sleep status for the majority of time in order to conserve battery life. The minimum wakeup interval is 300s The maximum wakeup interval is 16,777,200s (about 194 days) Allowable interval among each wakeup interval is 60 second, such as 360, 420,

Note: The default value is 12 hours. This value is longer, the battery life is

Command Classes

* COMMAND_CLASS_VERSION (V2)

This Sensor supports Command Classes as Below: * COMMAND_CLASS_ZWAVEPLUS_INFO (V2)

* COMMAND CLASS MANUFACTURER SPECIFIC (V2) * COMMAND CLASS DEVICE RESET LOCALLY (V1)

* COMMAND CLASS POWERLEVEL (V1)

* COMMAND CLASS NOTIFICATION (V4)

* COMMAND CLASS SENSOR BINARY (V2)

* COMMAND CLASS CONFIGURATION (V1)

* COMMAND_CLASS_BATTERY (V1) same type (e.g. the device is no longer available in the commercial offer), the * COMMAND CLASS ASSOCIATION (V2) Manufacturer may replace it with a different device which has similar technical parameters as the faulty one. Such activity shall be considered as fulfilling the * COMMAND CLASS ASSOCIATION GRP INFO (V1) obligations of the Manufacturer. The Manufacturer shall not refund money paid * COMMAND CLASS WAKE UP (V2)

5.The guarantee shall not cover:

for the device

defects, free of charge.

4.In special cases, when the device cannot be r

a. mechanical damages (cracks, fractures, cuts, abrasions, physical deformations caused by impact, falling or dropping the device or other object, improper use or not observing the operating manual)

b. damages resulting from external causes, e.g.: flood, storm, fire, lightning, natural disasters, earthquakes, war, civil disturbance, force majeure, unforeseen accidents, theft, water damage, liquid leakage ,battery spill, weather conditions, sunlight, sand, moisture, high or low temperature, air pollution

c. damages caused by malfunctioning software, attack of a computer virus, or by failure to update the software as recommended by the Manufacturer.

FCC Warning

(2) this device must accept any interference received, including interference that may cause

oursuant 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 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. ncrease the separation between the equipment and receiver.

Consult the dealer or an experienced radio/TV technician for help. The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

All above is for reference only, please see the subject products.

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

(1) This device may not cause harmful interference, and

undesired operation. Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, 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

Connect the equipment into an outlet on a circuit different from that to which the