

#### I . GENERAL INFORMATION ABOUT FLOOD SENSOR

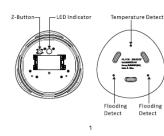
The Flood Sensor is capable of both detecting leaks and floods and

when the level of water gets too low in a pool or a tank. Flood Sensor

#### 1. Product layout

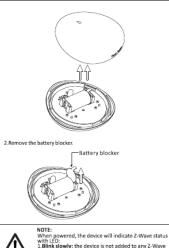
(7)Low battery alert.

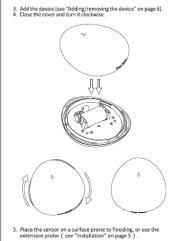
(8) Firmware OTA upgrade supported.



#### Power supply: ER14250 3.6V Battery Storage environment: -10°C-50°C 0%-90% Operational temperature: 0~40°C Radio protocol: Z-Wave plus Radio frequency: 868.42MHz (EU) 908.42MHz (US) 921.42MHz(ANZ More than 100m outdoors Range: About 30m indoors (depending on building materials) Main body: 68 mm(Φ)\*22mm(H) Dimensions Extension probe: 50 mm(Ф)\*5mm(H) Wire: 1000mm(L) Working current About 60mA Standby current: About 30uA

# II. ACTIVATION 1. Turn the cover counter-clockwise and open it.





### III. INSTALLATION

The Flood Sensor should not be mounted directly on or near metal framing or other large metallic objects since metal objects may weaken the radio signal strength

After "activation" process, the sensor can work without any installation. Furthermore, you can use the extension probe to fix To install with extension probe, follow the steps:

(1) There are 3 kinds of methods to install the baseplate of extension probe into the wall.



Glue on the wall

Buckle on the nail

(2)Magnet the sensor body (Note the direction)



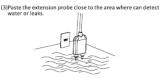
Parameter No.24 Enable/Disable blinking LED when alarm being

FLOOD SENSOR

OPERATING MANUAL

FLOOD SENSOR

HKZW-FLD01



Wipe clean the surface where the flood sensor will be mounted. Any dust and particles can reduce the adhesion of double-sided mounting tape.

# IV. ADDING/REMOVING THE DEVICE

#### Included as a non-secure device (1)Open the cover.

(2)Place the device within the direct range of your Z-Wave controller. (3)Set the main controller in Adding Mode (see the controller's

(4)Click the Z-button once or triple click the Z-button quickly, the LED indicator should blink fast in blue



(5)Wait for the adding process to end. (6)Successful adding will be confirmed by the Z-Wave controller's message.

#### Included as a secure device (50 or 52) (1)Open the cover.

(2) Place the device within the direct range of your Z-Wave controller. (3)Set the main controller in security add mode (see the controller's

(4) Press and hold the Z-button for more the 3 seconds and then release, the LED indicator should blink fast in green.



(5) Wait for the adding process to end. (6)Successful adding will be confirmed by the Z-Wave controller's maccaga

If you want your flood sensor to be a security device that use secure/encrypted message to communicate in a Z-Wave

orange

2)Place the device within the direct range of your Z-Wave controller. 3)Set the main controller remove mode (see the controller's manual). 4)Triple click the Z-button quickly, the LED indicator should blink fast in

network, then a security enabled Z-Wave controller is needed.



(5) Wait for the removing process to end (6) Successful removing will be confirmed by the Z-Wave controller's

#### V. RESETTING

2. Specifications

Reset procedure clears the flood sensor's memory, including Z-Wave network controller information and advanced configuration

To reset a Flood Sensor: Press and hold the Z-button for more than 20 seconds.

Use this procedure only in the event that the network primary controller is missing or otherwise inoperable.

#### VI. ASSOCIATION

Association allows flood sensor to control other Z-Wave device such

as Siren, Smart Switch, etc. The Flood Sensor supports two association groupings.

Group 1 reports the flooding detection, shock detection and the battery level. Group 2 is assigned to send BASIC SET command.

 The max number of associated nodes of all these 2 groups is 5. 2. Association allows for direct transmission of control command between devices and takes place without the participation of the main controller

#### WI. WAKE UP

#### Wake up interval: Available settings: 0-2678400

Default setting: 0 Defining a time period by which the flood Sensor sends a wake up notification command frame to communicate with the assigned device, update parameters, update software, detects battery level. Wake up interval set to 0 disables the sending wake up notification command, in such configuration it is needed to manually wake the device up by press the Z-button.

WL. ADVANCED CONFIGURATION

2.Solid: the device is already added to the Z-Waye

60 seconds is the step of wake up interval time, which

command by a timeline that is multiple 0f 60 seconds.

0~59 = 0 second, the device will not wake up by itself.

60~119 = 60 seconds, the device will wake up every 60

means flood Sensor will send wake up notification

3

# seconds

Setting examples:

The Flood Sensor offers a wide variety of advanced configuration settings. Below parameters can be accessed from main controllers configuration interface.

Parameter No.14 Enable/Disable BASIC SET command The Flood sensor can send BASIC SET command to nodes associated with group 2.

0 - Disable. 1 - Enable. Default setting: 0

Parameter size: 1 [byte]

#### Parameter No.15 Value of the BASIC SET The Flood sensor can reverse its value of BASIC SET when flooding is triggered.

0 - Send BASIC SET VALUE = 255 to nodes associated with group 2 when flooding alarm is triggered. Send BASIC SET VALUE = 0 to nodes associated with group 2 when

flooding alarm is canceled.

1 – Send BASIC SET VALUE = 0 to nodes associated with group 2 when flooding alarm is triggered.
Send BASIC SET VALUE = 255 to nodes associated with group 2 when flooding alarm is canceled.

Default setting: 0 Parameter size: 1[byte] Parameter No.18 Enable/Disable shock alarm

Parameter No.17 Enable/Disable flooding alarm

Default setting: 1 Parameter size: 1[byte]

0-Disable

0-Disable 1-Enable.

Default setting: 0 Parameter size: 1[byte]

Default setting: 0

Parameter size: 1[byte]

Parameter size: 2[byte]

1-Enable.

Default setting: 0

Parameter size: 1[byte]

Default setting (US): 0 (°F)

Parameter size: 2[byte]

Default setting (Other): 0 (°C)

Default setting (US): 1040 (\*F)

Default setting (Other): 400(°C)

Parameter No.17 Enable/Disable high temperature alarm

0-Disable 1 - Enable

Parameter No. 20 Set the high temperature alarm trigger value Available settings(US): -670 - 2570 (-67 - 257°F) Available settings(Other): -550 - 1250 (-55 - 125°C)

Parameter No.21 Enable/Disable low temperature alarm

Parameter No.22 Set the low temperature alarm trigger value

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Available settings(US): -670 - 2570(-67 - 257°F)

Available settings(Other): -550 - 1250(-55 - 125°C)

# IX. FCC NOTICE

triggered

1-Enable

Default setting: 1

Parameter size: 1[byte]

Default setting: 20 (20%) Parameter size: 1[byte]

Parameter No.32 Level of low battery

Available settings: 10-50 (10% - 50%)

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, and (2) This device must accept any interference received, including

This parameter defines a battery level as the "low battery".

interference that may cause undesired operation. Note: The Grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance, such

modifications could void the user's authority to operate the

Note: 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 istalled and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no quarantee 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:

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-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.