

FT122-A User Manual

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Water Sensor

[Line art drawing of Water Sensor]

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[Heading 1]FANTEM by Aeon Labs Water Sensor [/Heading 1]

FANTEM by Aeon Labs Water Sensor brings intelligence to a new level, one that is suited to both safety and convenience. It contains 4 sensor probes, which would be more accurately to detect the presence and absence of water or detect whether there is water leak in some places of your home. The Water Sensor has an inbuilt buzzer that can play alarm sounds to let you know when the water is detected.

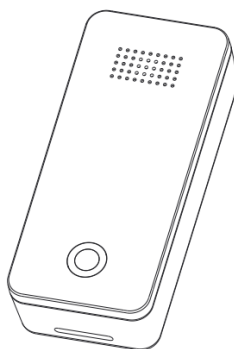
The Water Sensor is also a security Z-Wave device that supports Over The Air (OTA) for firmware updates.

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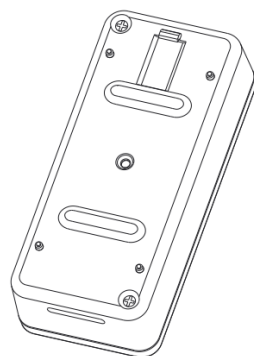
[Heading 1]Familiarize yourself with your Water Sensor.[/Heading 1]

Package contents:

1. Main sensor unit (x1).
2. CR123A battery (x1).
3. Screw (x2).

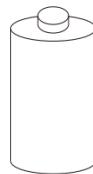


(Front)



(Back)

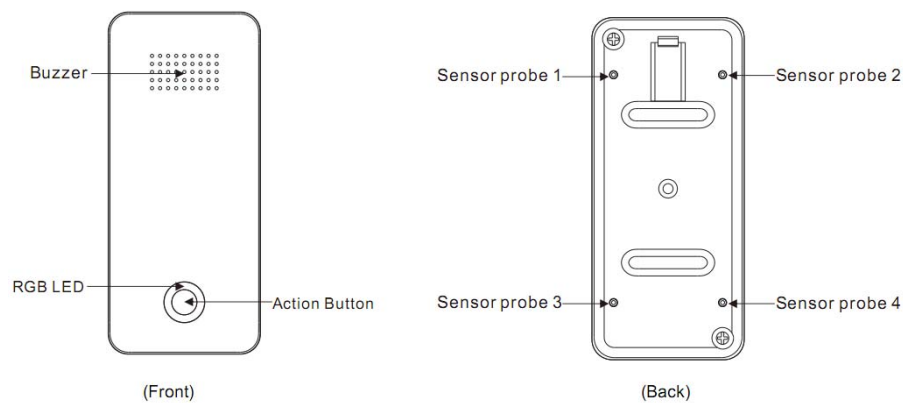
Main sensor unit



CR123A battery



Screws

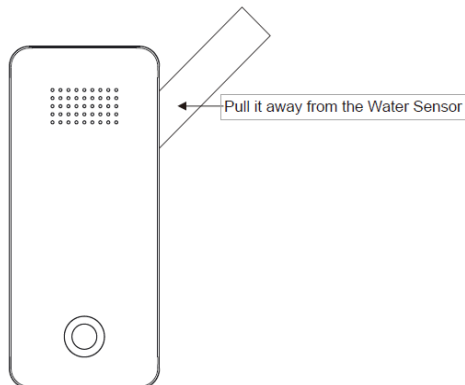


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[Heading 1]Quick Start.[/Heading 2]

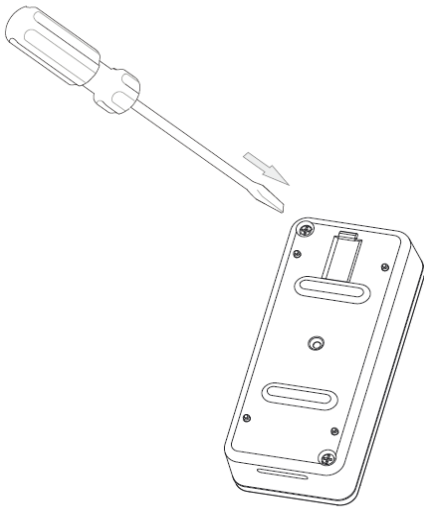
[Heading 2]Power on your Sensor.[/Heading 2]

1. Remove the clear battery insulator by pulling it away from the Water Sensor.



Now, you can try pressing the Sensor's Action Button, if you can see the RGB LED blinks, which indicates that the Sensor is powered on.

2. Secure the Sensor plate using the screws provided.



After complete the securing of the Sensor plate, your Water Sensor unit will possess the high waterproof level of IP65.

Your Water Sensor also can be powered by the Dock, if you want to know more about it, please refer to the Dock manual.

[Heading 2] Adding your Sensor to your Z-Wave network.[/Heading 2]

With your sensor is powered on, it's time to add it to your Z-Wave network.

1. Let your Z-Wave primary controller/gateway enter into adding/inclusion mode.
2. Take your Sensor near to your primary controller.
3. Press the Action Button once on your Sensor, the green LED will blink.
4. If your Water Sensor has been successfully added to your Z-Wave network, its green LED will be solid for 2 seconds and then the orange LED will fast blink for 10 minutes if the Sensor does not receive the Wake Up No More info Command from Controller. If the adding was unsuccessful and the red LED will be solid for 2 seconds and then become colourful gradient for a few seconds before it turns off, repeat the above steps.

With your Sensor now working as a part of your smart home, you'll be able to configure it from your home control software or phone application. Please refer to your software's user guide for precise instructions on configuring the Water Sensor to your needs.

[Heading 2]Installing your Water Sensor.[/Heading 2]

The installation of your Water Sensor is very simple, since you just need to select where you'll place your Water Sensor in your home to detect whether there is water leakage.

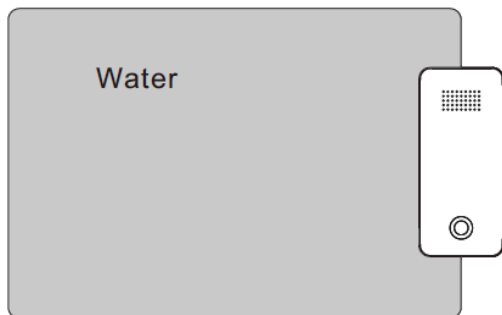
For example, you can put it on the floor or somewhere of your washroom or kitchen and so on. In case, your washroom's water pipe is ruptured or the water leakage happens without knowing it. However, the Water Sensor detected this water leakage event, it sends out the notification message immediately to tell your home gateway to shut off the main water gate of your home for avoiding water leakage accident. At the same time, the buzzer keeps playing alarm sounds to tell the people at home that the water leak is detected.

If you want to detect whether or not there would be water leakage from the fridge, you can put the Water Sensor near to the fridge. Just note that the Water Sensor cannot be put inside the fridge or other metal container, since the metal container will affect the signal strength of the Sensor unit and your main controller.

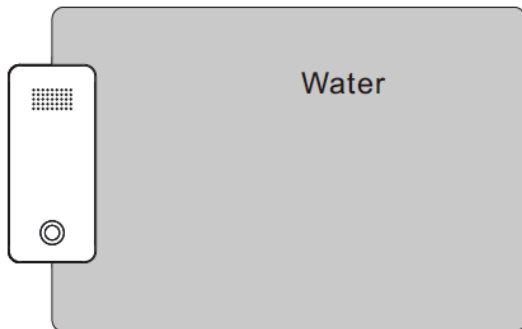
[Heading 2]Some conditions of the water can be detected by the Sensor.[/Heading 2]

The Water Sensor will be triggered when the water leak happens in below situations:

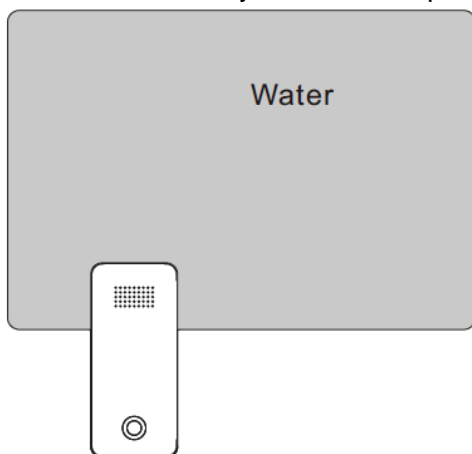
1. Water is detected by the Sensor's probe 2 and 4



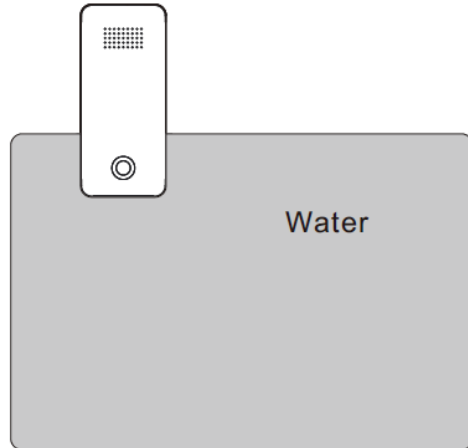
2. Water is detected by the Sensor's probe 1 and 3



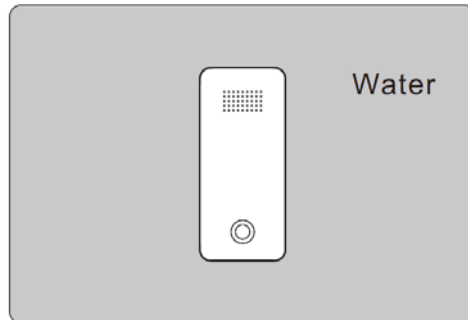
3. Water is detected by the Sensor's probe 1 and 2



4. Water is detected by the Sensor's probe 3 and 4



5. Water is detected by the Sensor's probe 1,2,3 and 4



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[Heading 1]Advanced.[/Heading 1]

[Heading 2]Send a wake up notification.[/Heading 2]

In order to send your Sensor new configuration commands from your Z-Wave controller or gateway, it will need to be woken up.

1. Press the Action Button on the Sensor unit and then release the Action Button. This will trigger and send a wake up notification command to your controller/gateway.
2. If you want your Sensor to keep awake for a longer time, press and hold the Action Button on the back of the Sensor unit for 3 seconds, then your Sensor will wake up for 10 minutes and the orange LED will fast blink while it is awake.

[Heading 2]Removing your Sensor from your Z-Wave network.[/Heading 2]

Your sensor can be removed from your Z-Wave network at any time. You'll need to use your Z-Wave network's main controller/gateway. To do this, please refer to the part of their respective manuals that tell you how to remove devices from your network.

1. Turn your primary controller into device removal mode.
2. Take the Sensor unit near to your primary controller.
3. Press the Action Button on your Sensor.
4. If your Water Sensor is successfully removed from the Z-Wave network, the RGB LED will become a colourful gradient for a few seconds and then turn off. If the removing was unsuccessful, the blue LED will be solid for 2 seconds and then turn off, repeat the above steps.

[heading 2] Security or Non-security feature of your Sensor in Z-Wave network.[/heading 2]

Including Water Sensor as a non-secure device:

If you want your Sensor as a non-security device in your Z-Wave network, you just need to press the Action Button once on Water Sensor when you use a controller/gateway to add/include your Sensor. The green LED will be on for 2 seconds and then the orange LED will fast blink for 10 minutes (if the Sensor does not receive the Wake Up No More Info command from primary Controller) to indicate the inclusion is successful.

Including Water Sensor as a secure device:

In order to take full advantage of all functionality the Water Sensor, you may want your Sensor is a security device that uses secure/encrypted message to communicate in Z-wave network, so a security enabled controller/gateway is needed for the Water Sensor to be used as a security device. You need to press the Sensor's Action Button 2 times within 1 second when your security controller/gateway starts the network inclusion. The blue LED will be on for 2 seconds and then the orange LED will fast blink for 10 minutes (if the Sensor does not receive the Wake Up No More Info command from primary Controller) to indicate the inclusion is successful.

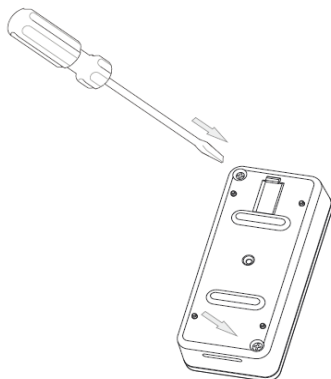
[heading 2]Factory reset your Sensor.[/heading 2]

If your primary controller is missing or inoperable, you may wish to reset all of your Water Sensor's settings to their factory defaults. To do this, press and hold the Action Button for 20 seconds and the green LED will be solid for 2 seconds and then be colourful gradient to confirm a success.

[heading 2]Your Sensor's battery.[/heading 2]

Your Water Sensor has a internal lithium battery that will last about 2 years when it is in normal use condition. If you find the Water Sensor's battery is drained, you will need to replace it with a new CR123A battery, refer to the below steps to replace the battery:

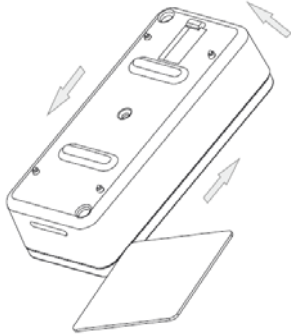
1. Unscrew the 2 screws from the Sensor.



2. Separate the battery cover from the Sensor unit.

If you have a hard plastic board(about 0.8 to 1.0mm thickness) on hand, you can use it to separate the battery cover directly:

Push or move the plastic board along the gap between battery cover and Sensor unit, refer to the direction of arrows, see the figure below:

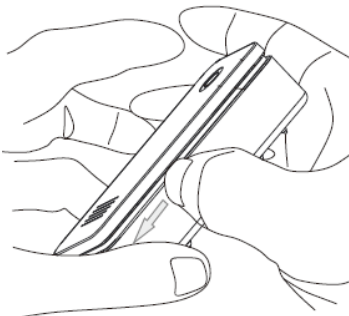


You can also open the battery cover through your fingers if you are confident about this way. Find the position of the screw side, see the operating steps below:

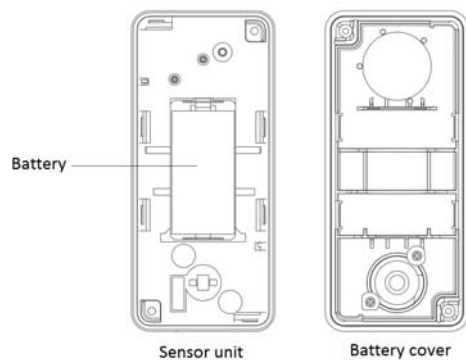
a. Pull open a small gap between the battery cover and Sensor unit.



b. Push or move your fingernail along the gap between battery cover and Sensor unit, as below:



3. Battery cover is separated from the Sensor unit



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[heading 1]Technical specifications. [/heading 1]

Model number: FT122-A.

Power supply: CR123A lithium battery, 3V, 1500mAh.

Operating temperature: 0°C to 40°C.

Storage temperature: -20°C to 60°C.

Water proofing: IP65.

Max volume of buzzer: 60dB at 2 meters away.

Operating distance: Up to 100 feet/30 metres indoors or 492 feet/150 metres outdoors.

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[heading 1]Warranty.[/heading 1]

[As is defined for the whole company]

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[heading 1]Certifications.[/heading 1]

FCC ID: XBAFT122

FCC Part 15.19 Warning Statement

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 INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

FCC Part 15.21 Warning Statement

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 EQUIPMENT.

FCC Part 15.105 Warning Statement

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 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.

RF warning statement:

The device has been evaluated to meet general RF exposure requirement. To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.