

MultiSensor

(Z-Wave 4-in-1 Sensor:

Motion, Temperature, Humidity, and Light Sensor)

Introduction

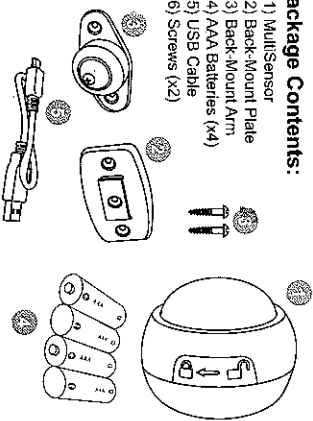
The Aeotec MultiSensor is a USB or battery-powered Z-Wave motion sensor, temperature sensor, humidity sensor, and lighting sensor all in one package. The sensor will send radio signals to up to 6 associated Z-Wave devices within its own Z-Wave network when the Motion Sensor detects IR changes in front of its viewing window.

Indoor/outdoor functional tolerances allow the Aeotec MultiSensor to function under weatherized conditions. Various sensitivity levels can be configured to avoid unintentional triggering from small animals such as cats and dogs.

By taking advantage of the Z-Wave mesh network, commands can be routed to their destination via intermediary "listening" Z-Wave products. Products that are Z-Wave certified can be used and communicate with other Z-Wave certified devices.

Package Contents:

- 1) MultiSensor
- 2) Back-Mount Plate
- 3) Back-Mount Arm
- 4) AAA Batteries (x4)
- 5) USB Cable
- 6) Screws (x2)

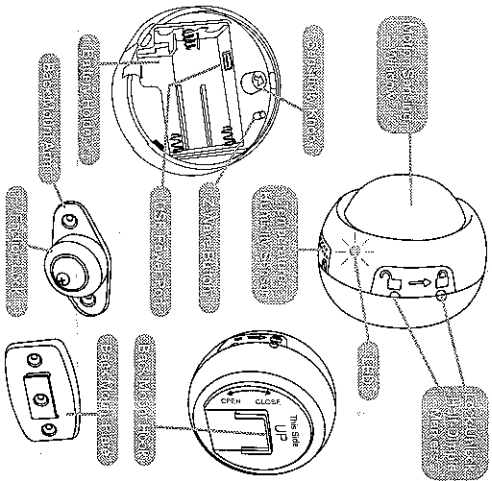


Important Disclaimer

This product uses radio to wirelessly communicate data between itself and other devices. Radio communication is inherently not always 100% reliable and as such, this product should not be used in situations in which life and/or valuables are solely dependent on its function.

Technical Specs

MultiSensor Physical Instructions:

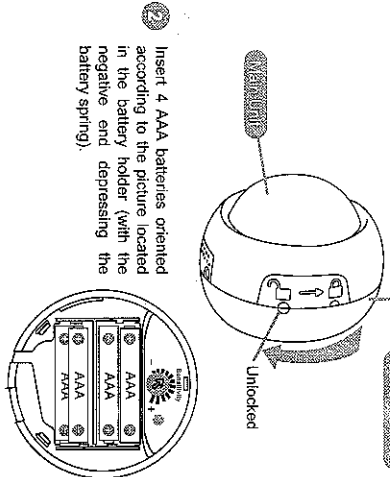


MultiSensor Power Instructions:

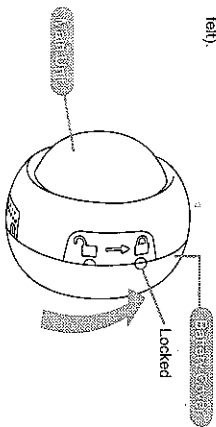
The Aeotec MultiSensor has built in battery level detection. It will automatically report its battery level to the associated gateway throughout its life until the battery is fully drained and needs replacing. The battery status will often be displayed in the user interface of the gateway.

When used properly in an optimized Z-Wave network, operation via battery can function for 12 months before battery replacement.

Unlock the MultiSensor from its battery cover by twisting the battery cover from the main unit in a counter-clockwise motion and pulling the battery cover outward to separate the main unit from the battery cover.

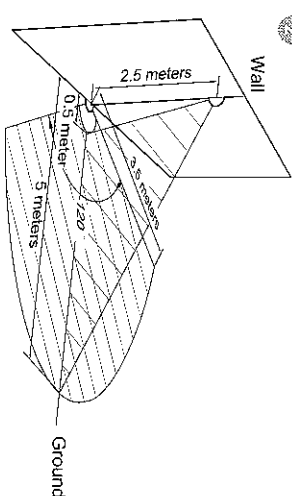
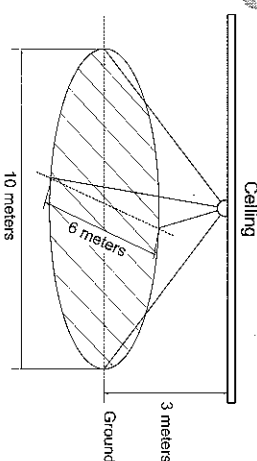


Lock the MultiSensor main unit to its battery cover by aligning the Lock/Unlock Half-Dimple Markers under the "unlock" symbol and twisting the battery cover from the main unit in a clockwise motion until the Lock/Unlock Half-Dimple Markers form a circle under the "lock" symbol (a tangible click will be felt).



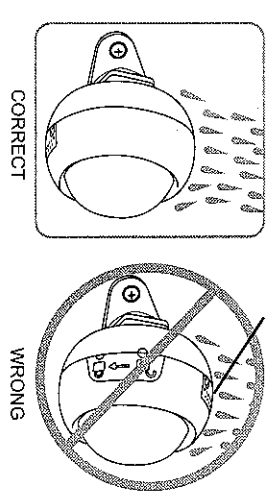
Recommendation: For networks with multiple MultiSensors, it is recommended to place the sensor in a central location. This will help to ensure that the sensor is able to communicate with the gateway and other sensors in the network. The sensor should be placed in a central location, away from walls and other obstructions.

Motion Sensor Effective Range:



Weatherization Orientation:

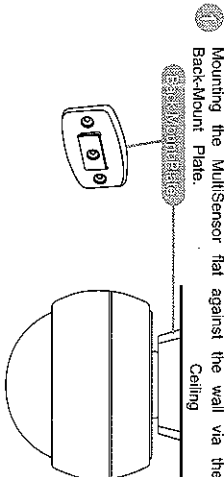
Water can enter humidity sensor



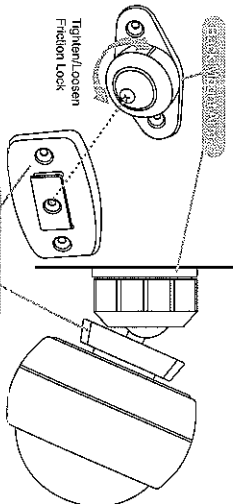
MultiSensor Physical Installation Instructions:

There are 2 methods to physically mount the MultiSensor on the wall or ceiling. It can be mounted flat against the wall via the Back-Mount Plate or angled in a direction via the Back-Mount Arm.

Important: The MultiSensor is weatherized and can operate outdoors in rain and snow. Placed outdoors where directly exposed to rain and snow, the MultiSensor should be oriented such that the Temperature/Humidity Sensor is facing downward and positioned on the bottom of the unit. (See the Weatherization Orientation section.)



Mounting the MultiSensor angled in a direction via the Back-Mount Arm.

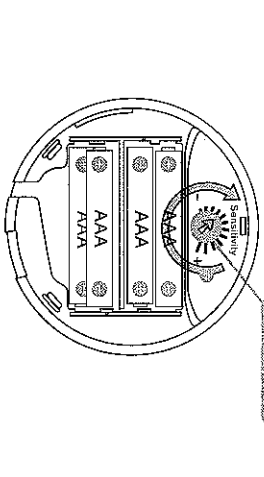


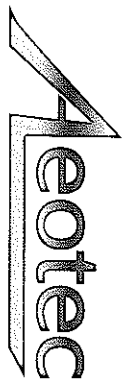
Note: The Back-Mount Arm may be locked in various angles by turning the Friction Lock clockwise and counter-clockwise to tighten or loosen (respectively) the angle of the arm.

Recommendation: For networks with multiple MultiSensors, it is recommended to place the sensor in a central location. This will help to ensure that the sensor is able to communicate with the gateway and other sensors in the network. The sensor should be placed in a central location, away from walls and other obstructions.

Adjusting the Sensitivity on the MultiSensor

Turn the Sensitivity Knob in a clockwise direction to increase sensitivity and counter-clockwise to decrease sensitivity.





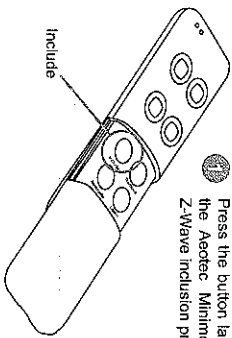
Harmonizing the Digital Home

Z-Wave Network Instructions

The Aeotec MultiSensor must be paired (included) into a Z-Wave network before it can send Basic Set Command, Temperature, Humidity, and Light Level Reports to association group 1, which is setup via the Association Command button. The MultiSensor can only communicate to devices within its own Z-Wave network.

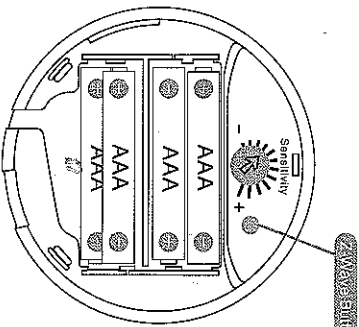
Note: The LED on the MultiSensor will blink if it is currently not paired into a Z-Wave network when pressing the Z-Wave Button.

Adding/Including/Pairing the MultiSensor into a Z-Wave Network



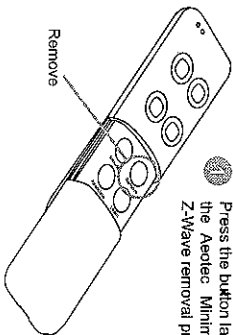
Press the button labeled 'Include' on the Aeotec Minimote to begin the Z-Wave inclusion process.

Press the Z-Wave Button under the Battery Cover to begin the Z-Wave pairing process.



Troubleshooting: If the MultiSensor was not successfully paired into any Z-Wave network, the MultiSensor's LED will blink when pressing the Z-Wave Button. If the MultiSensor was successfully paired into a Z-Wave network, the LED will stay solid for a few seconds when pressing the Z-Wave Button.

Removing/Resetting the MultiSensor from your Z-Wave Network



Press the button labeled 'Remove' on the Aeotec Minimote to begin the Z-Wave removal process.

Note: To remove the MultiSensor from any Z-Wave network, please consult the operation manual to check capabilities of how to remove Z-Wave products from an existing network.

Troubleshooting: If the MultiSensor was successfully removed from the Z-Wave network, pressing the Z-Wave Button will cause the LED to blink. If the MultiSensor was not successfully removed from the Z-Wave network the LED will stay solid for a few seconds.

Monitoring Motion

The MultiSensor can send Basic Set Command to association group 1, which is setup via the Association Command Class, when the Motion Sensor detects movement to control the associated devices to 'OPEN' state. After 4 minutes by default, if the Motion Sensor is not triggered again, the MultiSensor will send Basic Set Command to these devices to set them to their 'CLOSE' state. However, if the Motion Sensor is triggered again in 4 minutes, the MultiSensor will reset the timing and start timing again.

The 4 minutes delay time can be changed through the usage of Z-Wave command built into Z-Wave certified controllers/gateways. (The specific Z-Wave command supporting this function is Configuration Command Class) Please consult the operation manual for these controllers / gateways for specific instructions on setting the MultiSensor.

Monitoring Temperature, Humidity and Luminance

The MultiSensor can report temperature, humidity, and luminance to a Z-Wave gateway or controller when requested. If this function is supported by the gateway/controller, the data will be displayed in the user interface of the gateway/controller. (The specific Z-Wave command supporting the monitoring is the Multilevel Sensor Command Class and Mult Channel Command Class. Automatic reports are sent to association group 1, which is setup via the Association Command Class.) Please consult the operation manual for these gateways/controllers for specific instructions on setting the MultiSensor.

Warranty

Aeon Labs warrants to the original purchaser of Products that for the Warranty Period (as defined below), the Products will be free from material defects in materials and workmanship. The foregoing warranty is subject to the proper installation, operation and maintenance of the Products in accordance with installation instructions and the operating manual supplied to Customer. Warranty claims must be made by Customer in writing within thirty (30) days of the manifestation of a problem. Aeon Labs' sole obligation under the foregoing warranty is, at Aeon Labs' option, to repair, replace or correct any such defect that was present at the time of delivery, or to remove the Products and to refund the purchase price to Customer.

The "Warranty Period" begins on the date the Products is delivered and continues for 12 months.

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THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

STORE INDOORS WHEN NOT IN USE. SUITABLE FOR DRY LOCATIONS. DO NOT IMMERSE IN WATER. NOT FOR USE WHERE DIRECTLY EXPOSED TO WATER.

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 undesired operation. 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.

Warning:

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.

Contact your local government for information regarding the collection systems available.

Certifications (regional):

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