[MultiSensor Manual](#)

The following instructions have been designed to help you install and get the best performance out of Aeotec's [Z-Wave MultiSensor](#).
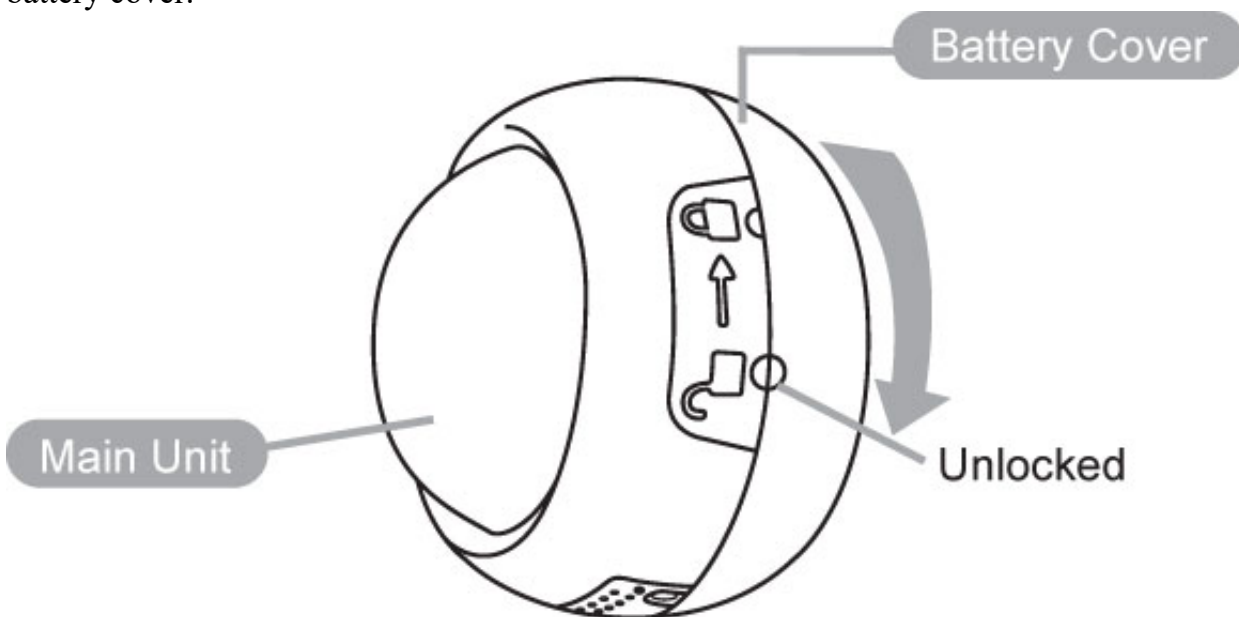
Powering The MultiSensor.

The Aeotec MultiSensor has built-in battery level detection. It will automatically report its battery level to the associated Z-Wave gateway throughout its life until the battery is fully drained and needs replacing. Most gateway user interfaces will inform you of the battery status.

When used properly in an optimized Z-Wave network, operation via battery can function for 12 months before battery replacement.
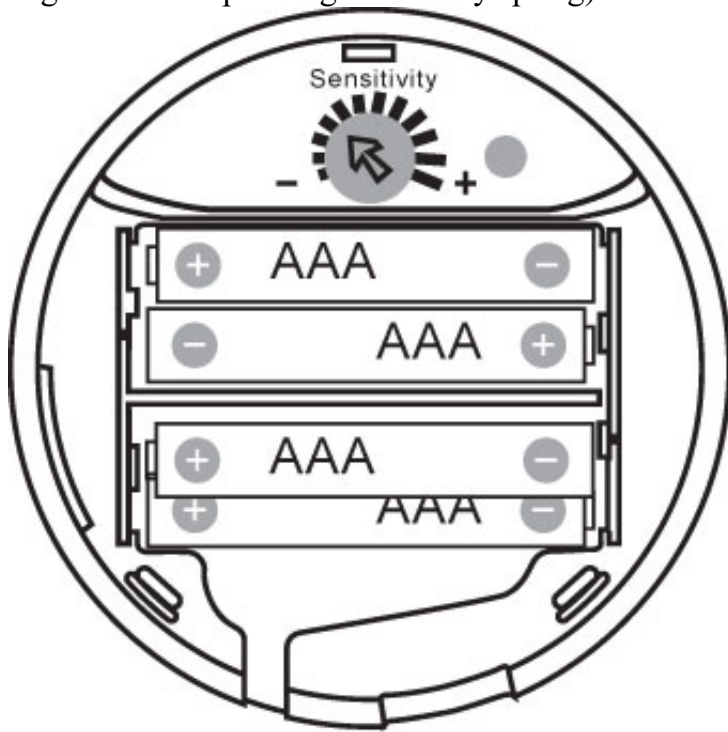
①

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.


②

Insert 4 AAA batteries oriented according to the picture located in the battery holder (with the negative end depressing the battery spring).

3

Lock the MultiSensor main unit to it's 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).
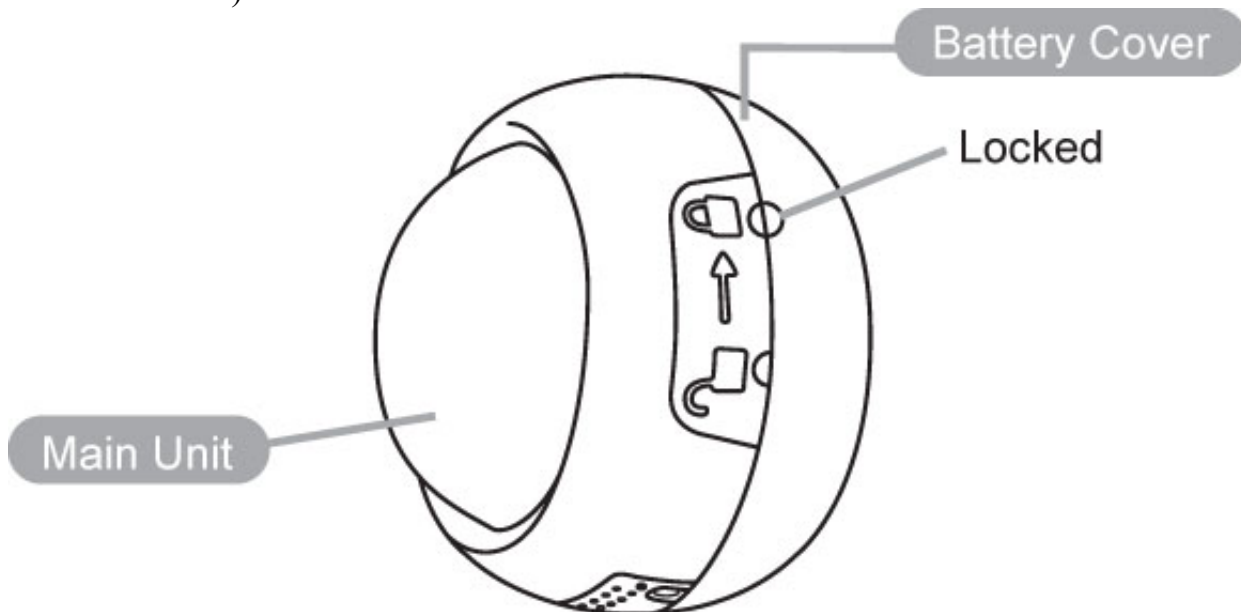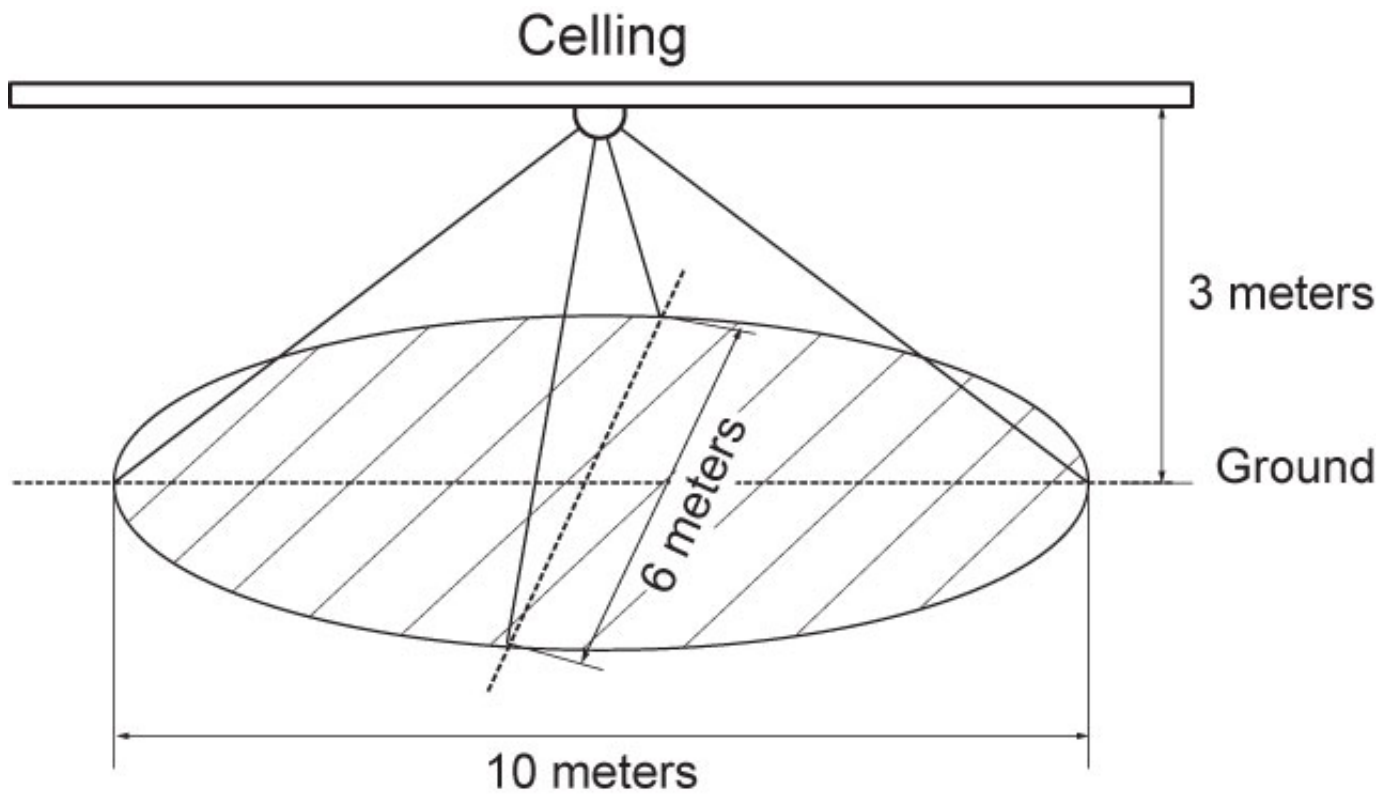

TIP

Tip
For networks that do not have a method to display the battery level of the Aeotec MultiSensor, it is recommended that the sensor be tested occasionally to ensure that the battery still holdd enough charge to operate. Batteries naturally lose their charge over time.
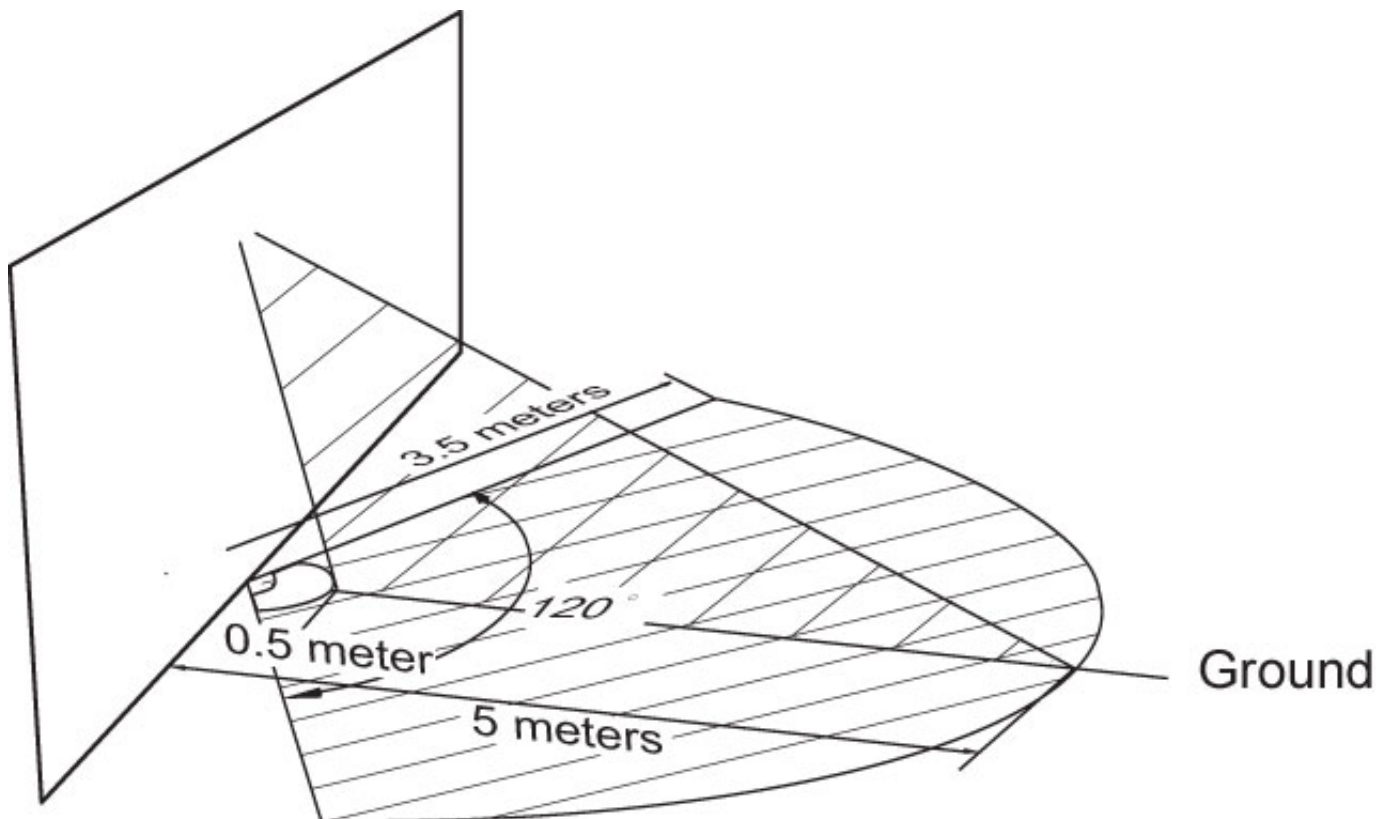
Motion Sensor Effective Range.

Aeotec's MultiSensor can be mounted to a wall or to a ceiling – the effective range differs for each mounting.

When mounted to a ceiling;

Celling

3 meters

Ground

6 meters

10 meters

When mounted to a wall;
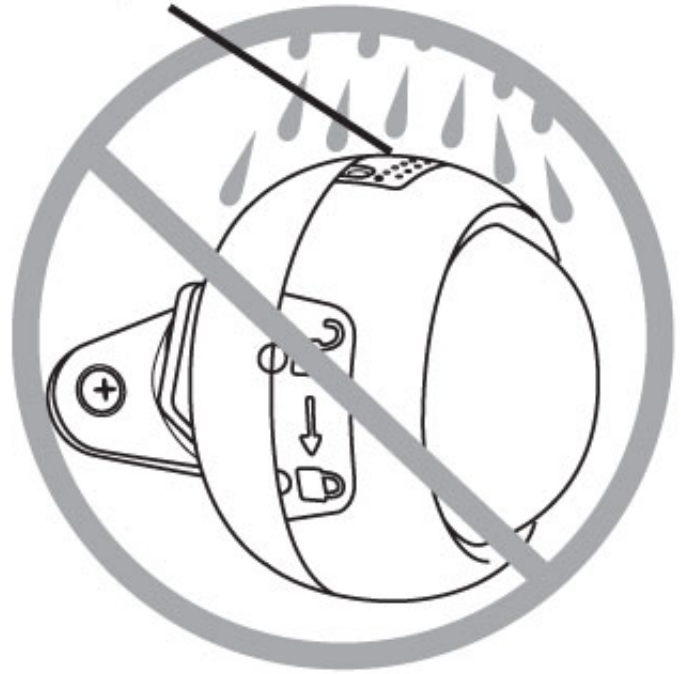

3.5 meters

120 °

0.5 meter

5 meters

Ground

Weatherization Orientation.

Water can enter humidity sensor

CORRECT WRONG

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 for more information.
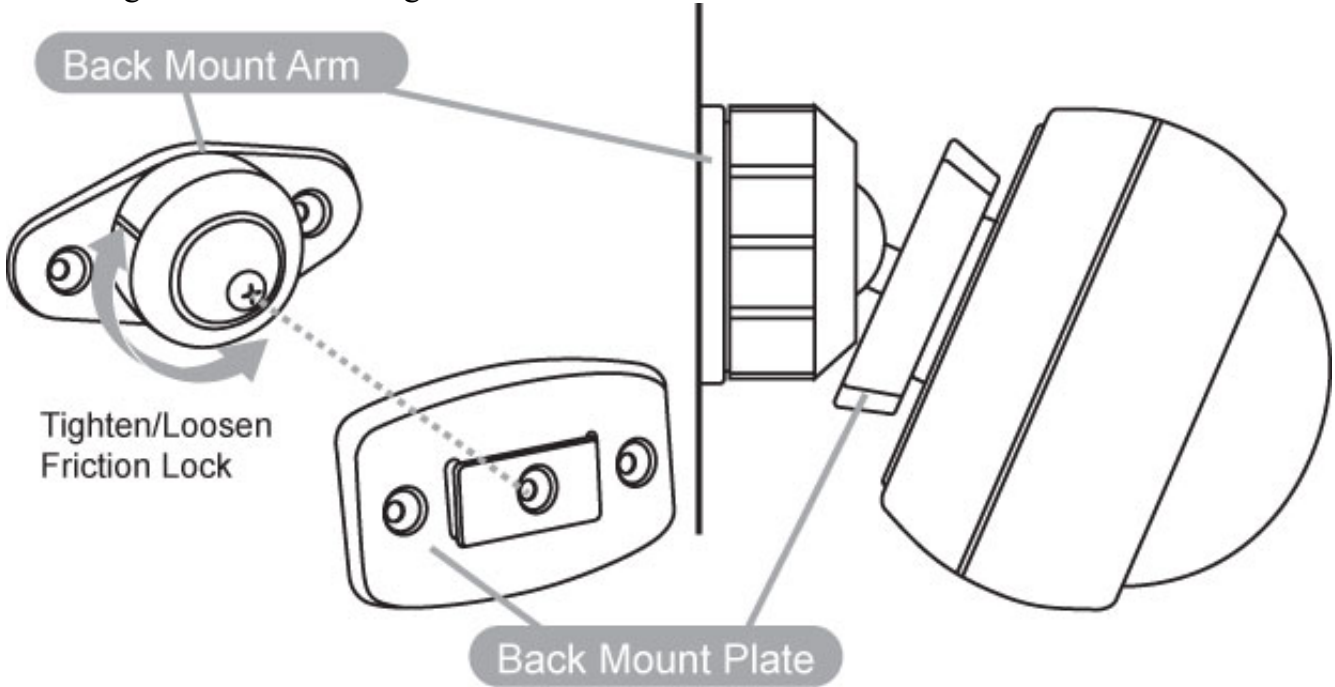
①

Mounting the Multisensor flat against the ceiling via the back-mount plate.

Ceiling

Back Mount Plate
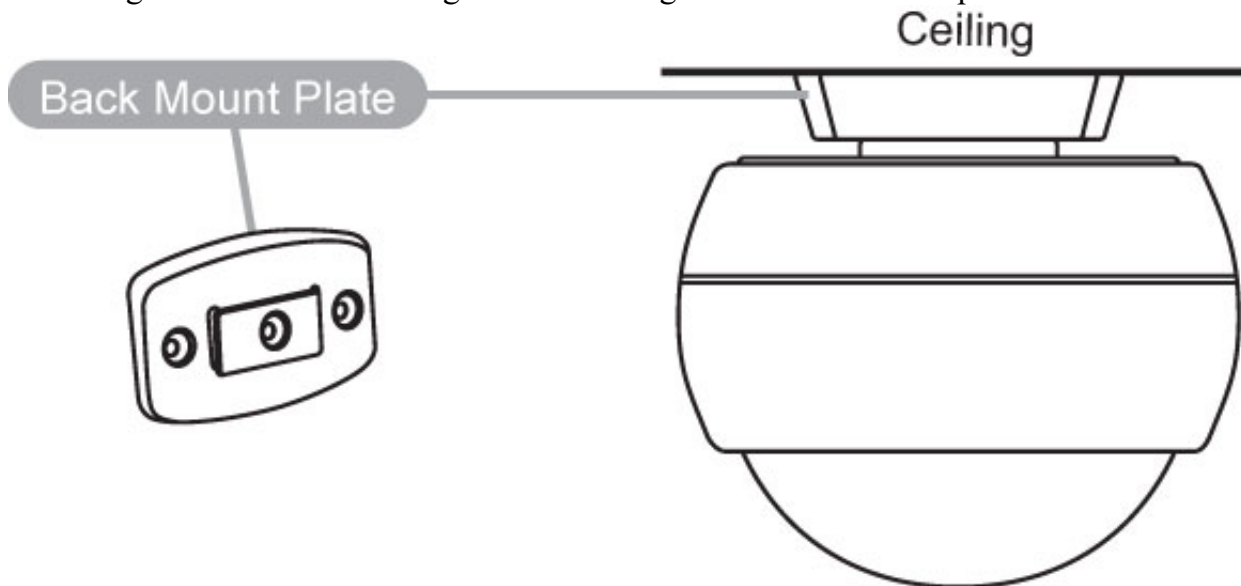
②

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.

Tip

For best performance, the MultiSensor should not be mounted directly on or near metal framing or other large metallic objects. Large metal objects may weaken the radio signal transmitted.

Adjusting the Sensitivity on the MultiSensor.

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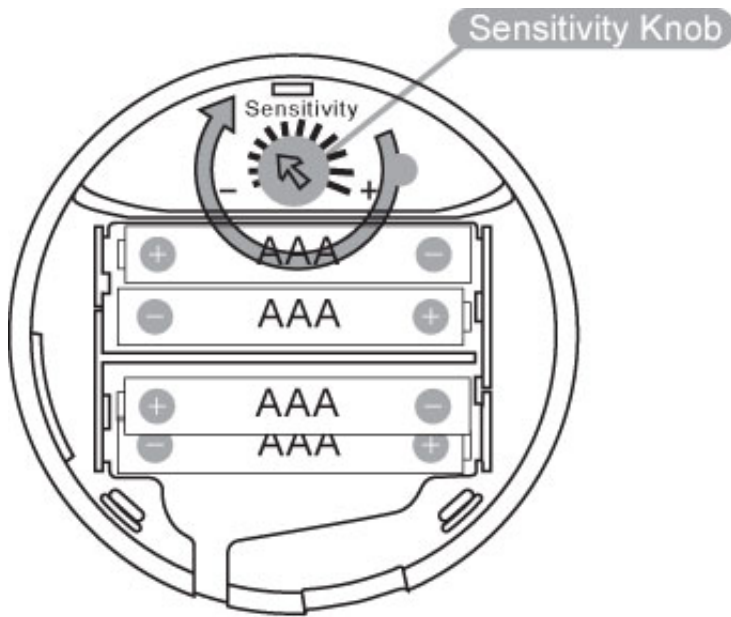
Z-Wave Network Instructions.

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 class. 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.
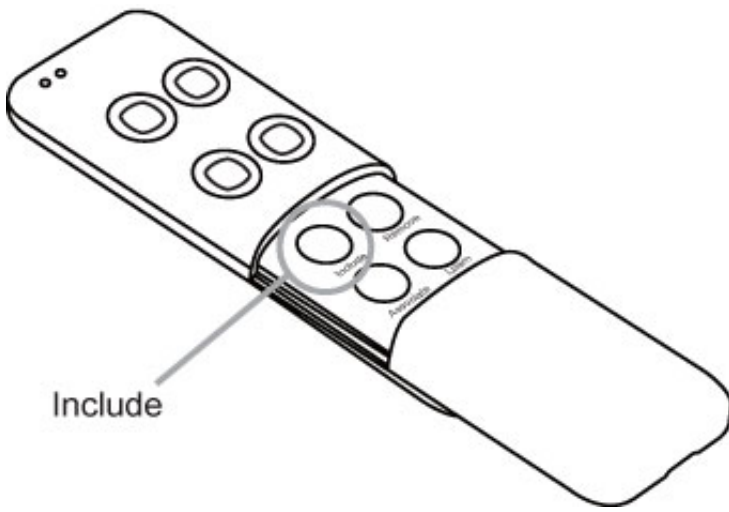

Note
To include the MultiSensor with other controllers, please consult the operation manual for these controllers on how to include Z-Wave products into an existing network.

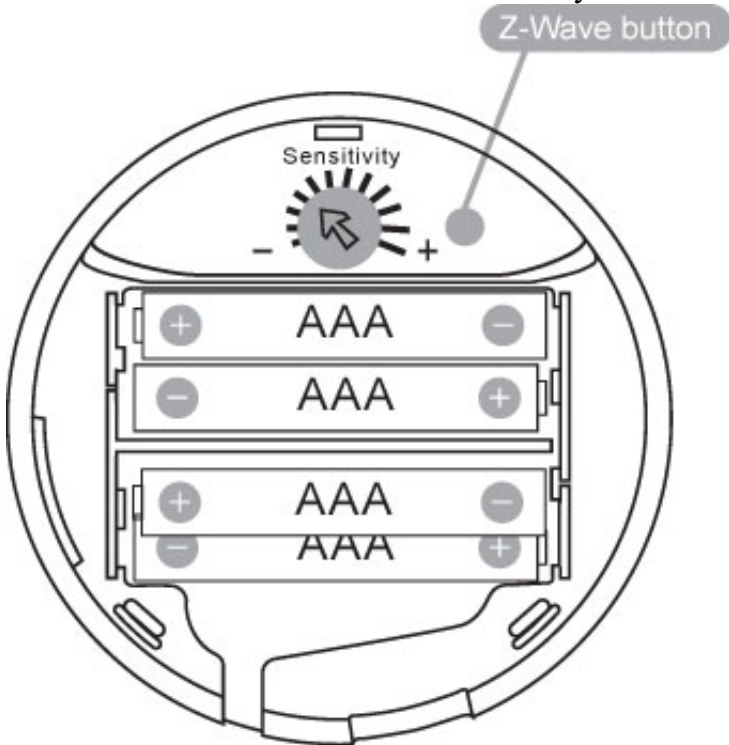## Adding/Including/Pairing the MultiSensor into a Z-Wave Network.

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

Include

②

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

Z-Wave button

Sensitivity

TIP

Troubleshooting

If the MultiSensor was not successfully paired into any Z-Wave network the LED on the MultiSensor 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 the MultiSensor from your Z-Wave network

①

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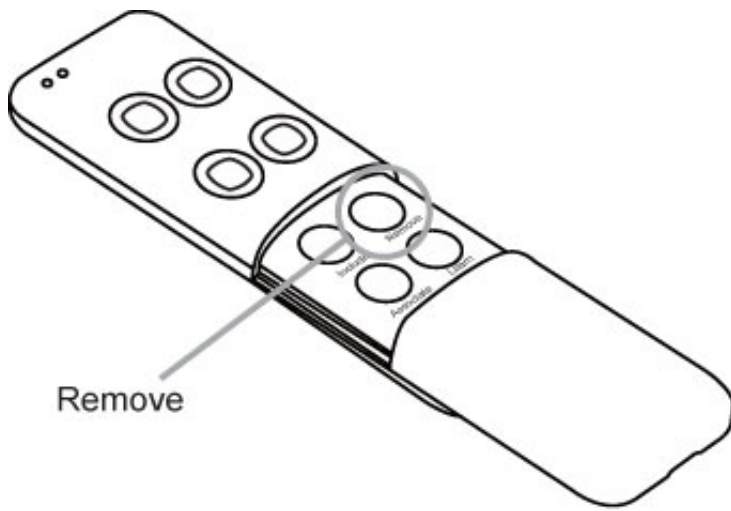
Remove

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 MultiSensor detects motion 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 control them to "CLOSE" state, but if the Motion Sensor is triggered again in 4 minutes, the MultiSensor will reset the timing, and start to 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. 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.

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.
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