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.

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.

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.

Package Contents:

1) MultiSensor
2) Back-Mount Plate
3) Back-Mount Arm
4) AAA Batteries (x4)
5) USB Cable
6) Screws (x2)
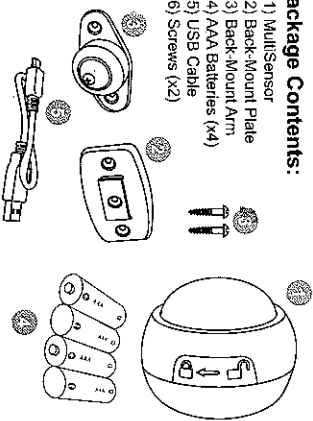
Technical Specs
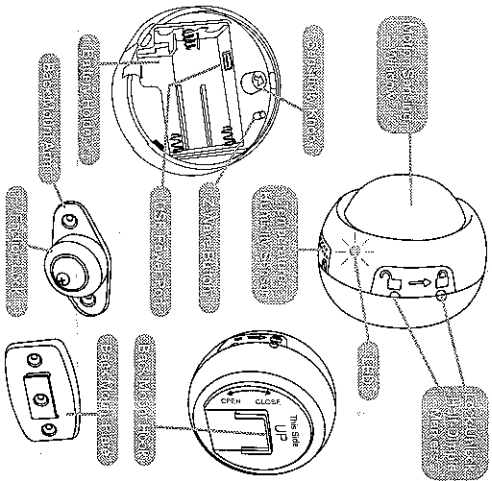
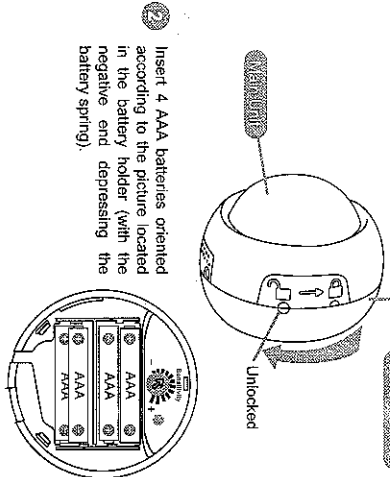### MultiSensor Physical Instructions:
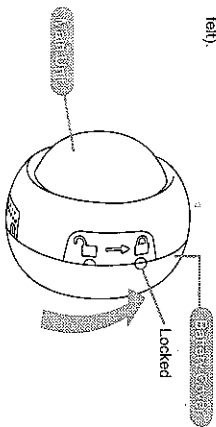

MultiSensor Power Instructions:

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 it's 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.

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

Unlocked

Motion Sensor Effective Range:
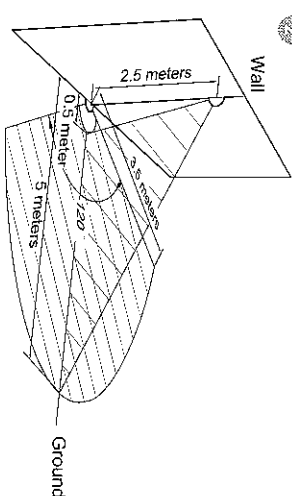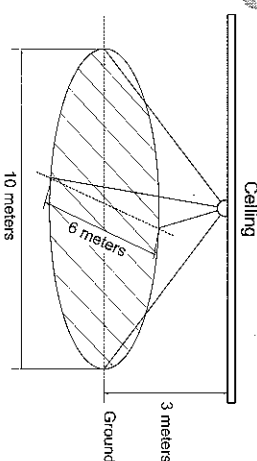

Ceiling

10 meters

6 meters

3 meters

Ground

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).
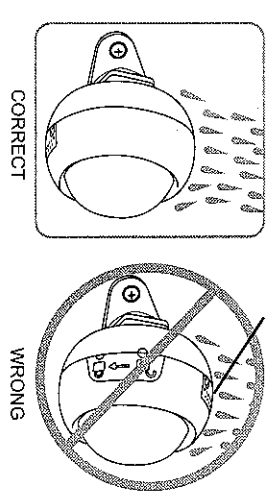

Locked

Weatherization Orientation:

Water can enter humidity sensor

CORRECT   WRONG

2.5 meters

0.5 meter

5 meters

Wall

Ground

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 flat against the wall via the Back-Mount Plate.
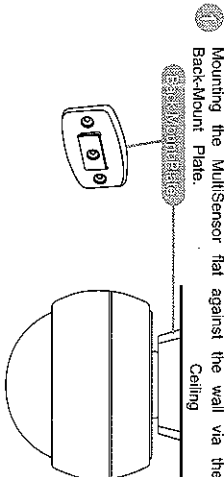
Mounting the MultiSensor angled in a direction via the Back-Mount Arm.
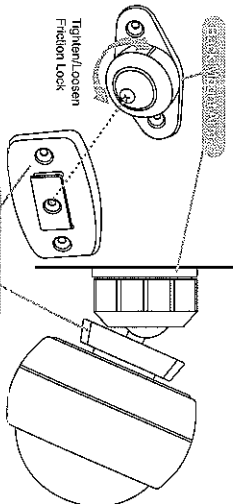

Note: The Back-Mount Arm may be locked in various angles by turning the Friction Lock clockwise and counter-clockwise to tighten or loosen (respectively) the angle of the arm.

Tighten/Loosen Friction Lock

Adjusting the Sensitivity on the MultiSensor

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


Sensitivity

AEON LABS
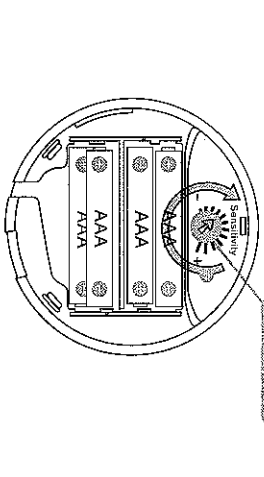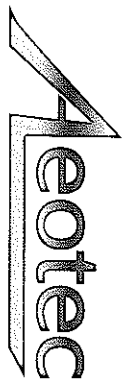
Harmonizing the Digital Home

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 class. The MultiSensor can only communicate to devices within its own Z-Wave network.
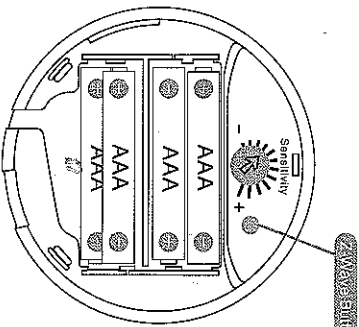
Note: The LED on the MultiSensor will blink if it is currently not paired into a Z-Wave network when pressing the Z-Wave Button.

Adding/Including/Pairing the MultiSensor into a Z-Wave Network
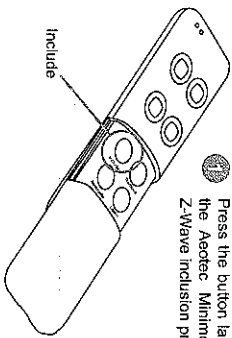
Press the button labeled "Include" on the Aeotec Minimote to begin the Z-Wave inclusion process.

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.

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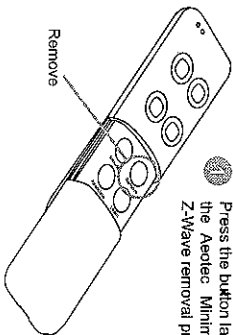
Press the button labeled "Remove" on the Aeotec Minimote to begin the Z-Wave removal process.

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 or 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 Multi 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.