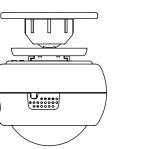


View the expanded manual: http://aeotec.com/support



Aeotec by Aeon Labs MultiSensor

Motion sensor. Humidity sensor. Thermometer. Light sensor.

too. But it's also so much more. Installing this 1 piece of Z-Wave® technology is the same as installing 4 pieces of Z-Wave technology. Your home control network will immediately understand motion, temperature, humidity and light readings wherever MultiSensor installed. Those intelligent readings will equate to intelligence

(2) Familiarize yourself with your MultiSensor.

Your MultiSensor comes packaged with a number of accessories that will help with its installation and operation.

Package Contents:

- 2) Back-Mount Plate
- 3) Back-Mount Arm



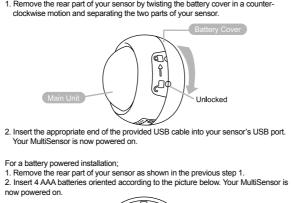
The corner of your room just got smart.

Aeotec by Aeon Labs' MultiSensor looks like a motion sensor and it acts like one automation. And intelligent automation will give you the perfect, smart home.

- 1) MultiSensor
- 4) USB Cable 5) Screws (x2)



 Remove the rear part of your sensor by twisting the battery cover in a counterclockwise motion and separating the two parts of your sensor.



AAA G

It's now time to sync your MultiSensor with a Z-Wave network. The following

instructions explain how to do this using a Z-Stick or a Minimote from Aeotec. If

you're using an alternative controller for your Z-Wave network, please refer to its user

Add your MultiSensor to your Z-Wave network.

manual for network inclusion instructions.

For a USB powered installation:

2. Insert the appropriate end of the provided USB cable into your sensor's USB port.

- Press the Z-Wave Button on your MultiSensor
- 5. You can test if your MultiSensor has been successfully synced with your Z-Wave

If you're using a Minimote

2. Take vour Z-Stick to your MultiSensor

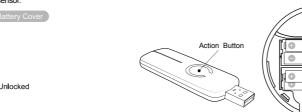
Include

- network by pressing its Z-Wave Button. If you press the button and your sensor's LED illuminates for a few seconds, then syncing has been successful. If the LED blinks when the button is pressed, the syncing has been unsuccessful and you should repeat the above steps. 6. Press the Action Button on the Z-Stick to return it to standard operating mode.
- Return it to your gateway or computer.

AAA



 Take your Minimote to your MultiSensor. 2. Press the Include button on your Minimote



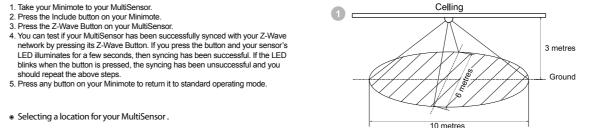
If you're using a Z-Stick:

If your Z-Stick is plugged into a gateway or a computer, unplug it.

3. Press the Action Button on your Z-Stick.

- While light can impact on the quality of motion readings, it's also important to
 - your MultiSensor should not be installed in areas of artificial temperature change. Thus, when selecting a location, avoid placing it beside or near air conditioners, humidifiers, and heaters, and avoid positioning it directly opposite a window or direct

Selecting a location for your MultiSensor to be installed depends on the use case. Whatever the case or the installation location, please ensure that it fits with your sensor's effective motion sensing range as described in these diagrams.



in elements such as rain and snow. Please note that when installed outdoors, your MultiSensor should only be relied on for temperature, light and humidity readings and that the motion sensing capabilities should be disabled on your gateway in order to avoid false readings.

understand things that may impact on other readings within your home. Specifically,

blinks when the button is pressed, the syncing has been unsuccessful and you

MultiSensor can bring its intelligent readings to many locations of your home. That

includes outside of your home. MultiSensor is weatherized and can operate outdoors

5. Press any button on your Minimote to return it to standard operating mode.

For ceiling mounting using the Back-Mount Plate:

Press the Z-Wave Button on your MultiSensor.

should repeat the above steps.

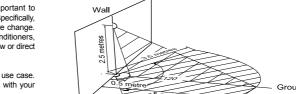
Selecting a location for your MultiSensor.

If selecting an outdoor location, it's important to position your MultiSensor in a sheltered location. It is best if your MultiSensor is not directly exposed to rain and integral that the humidity venting on your MultiSensor neer is. As such, during installation you should orient your MultiSensor according to the following diagram so that the sensor perforations on the side of your sensor are facing downwards.





4. If using the Back-Mount Plate, utilize the provided 3mm screws to affix it to a surface.



weaken the Z-Wave wireless signal.

Further, for optimal performance your MultiSensor should NOT be mounted directly

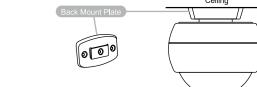
With your MultiSensor now part of your Z-Wave network, it's time to finish its physical

There are 2 ways that your MultiSensor can be mounted on on a wall or ceiling. Using the Back-Mount Plate, you can mount it flat against a wall or ceiling. Using the Back-Mount Arm you can mount it on a surface or in a corner and angle it as desired

To physically install your MultiSensor;

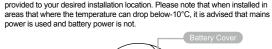
Physically install your MultiSensor

on or near metal framing or other large metallic objects. Large metal objects may lock/unlock half-dimple markers that are under the unlock symbol and then twist in a clockwise motion.



- the provided 3x20mm screws. 1. Reattach the two parts of your MultiSensor to each other. To do this, align the

WRONG

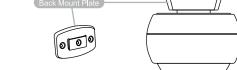


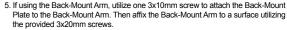
2. If used the USB cable to power your MultiSensor, ensure that power can be



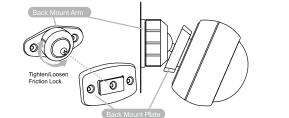








6. The Back-Mount Arm may be locked at various angles by turning the Friction Lock clockwise and counter-clockwise to respectively tighten or loosen the angle of the



Advanced functions.

Changing batteries.

lose their charge over time.

Your MultiSensor has built in battery level detection. It will automatically report its battery level to the associated control point 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 control point.

When used properly in an optimised Z-Wave network, your MultiSensor can be powered by batteries for 12 months before battery replacement is necessary.

Recommendation: For networks which do not offer a method to display the battery level of your MultiSensor, it is recommended that the sensor be tested occasionally to ensure that the batteries still hold enough charge to operate. Batteries naturally

Removing your MultiSensor from a Z-Wave network.

Your MultiSensor can be removed from your Z-Wave network at any time. You'll need to use your Z-Waye network's main controller to do this and the following instructions tell you how to do this using Aeotec by Aeon Labs' Z-Stick and Minimote controllers. If you are using other products as your main Z-Wave controller, please refer to the part of their respective manuals that tells you how remove devices from vour network.

If you're using a Z-Stick:



- 1. If your Z-Stick is plugged into a gateway or a computer, unplug it.
- 2 Take your Z-Stick to your MultiSensor
- 3 Press and hold the Action Button on your 7-Stick for 3 seconds and then release
- 4 Press the 7-Wave Button on your MultiSensor
- 5. If your MultiSensor has been successfully removed from your network, its LED will blink when you press the Z-wave Button. If the removal was unsuccessful, the LED will stay solid for a few seconds when you press the Z-wave Button.
- Press the Action Button on the Z-Stick to take it out of removal mode.

If you're using a Minimote:

Remove



- Take your Minimote to your MultiSensor.
- Press the Remove Button on your Minimote.
- 3. Press the Z-wave Button on your MultiSensor
- 4. If your MultiSensor has been successfully removed from your network, its LED will blink when you press the Z-wave Button. If the removal was unsuccessful, the LED will stay solid for a few seconds when you press the Z-waye Button.
- 5. Press any button on your Minimote to take it out of removal mode.

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 Setting automatic report flags. Motion Sensor is triggered again in 4 minutes, the MultiSensor will reset the timing and start timing again.

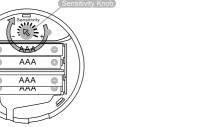
The 4 minutes delay time can be changed through the usage of Z-Wave command built into Z-Wave certified control points. (The specific Z-Wave command supporting Decimal this function is Configuration Command Class) Please consult the operation manual for these control points for specific instructions on setting the MultiSensor. 128 Light Sensor

Adjusting the sensitivity of your MultiSensor

AAA

Monitoring motion.

Turn the Sensitivity Knob in a clockwise direction to increase sensitivity and counter The table above shows a decimal representation of all flags that can be set on clockwise to decrease sensitivity.



Monitoring temperature, humidity and luminance.

Your MultiSensor can report temperature, humidity, and luminance across a Z-Wave sensors, and you want to report it every 1800 seconds. Set parameter 111 to 1800 to network when requested. If this function is supported by a controller, generally a

gateway, the data will be displayed within its interface. The specific Z-Wave Waking up your Multisensor.

commands for the support of monitoring is the Multilevel Sensor Command Class and Multi Channel Command Class, Automatic reports are sent to association group If your MultiSensor is battery powered, you will need to ensure that it is active when 1. which is setup via the Association Command Class. Please consult the controller's configuring it. To do this, press and hold its Z-Wave Button for 3 seconds and the operation manual for specific instructions on setting your MultiSensor. release it. Your MultiSensor's LED should now be solid to indicate that it is active.

Humidity Sensor

parameter 101-103 to report specific data.

Example use of the report table.

Setting an automatic report interval

for Group 3 (parameter 103).

Temperature Sensor

Battery Sensor

the default settings of your MultiSensor are not what you desire.

Parameter 111-113 [4 byte decimal] can be configured through your gateway in case

As an example, you have set parameter 101 to 225 which will report all of the

Parameter 101-103 [4 byte decimal] can be configured through your gateway in case Z-Wave button for 3 seconds and then release it. Your MultiSensor's LED should the default settings of your MultiSensor are not what you desire. now be off to indicate that it is asleep.

Resetting your MultiSensor.
At some stage or your primary controller is missing or inoperable, you may also wish to reset all of your MultiSensor's settings to their factory defaults. To do this, press
and hold the Z-Wave Button for 20 seconds and then release it. Your MultiSensor

will now be reset to its original settings, and the LED will stay solid for 2 seconds and then turn off as a confirmation.

For example, if you want to report only the temperature and light sensor you would) Technical specifications. add 32 + 64 and set the sum (96) to parameter 101, 102, or 103.

As another example, if you want to report only the light sensor and battery, you would Power Supply: USB DC 5V or battery power(4×AAA batteries). add 1 + 128, then set the sum (129) to parameter 101, 102, or 103, Operating Temperature: -10°C to 60°C.

Measured Temperature Range: -10°C to 50°C, Accuracy: ±1°C And if you want to report all of the sensors, you would add the whole table together Humidity Range: 20% to 80%, Accuracy: ±5% (at 25°C). and set the sum (225) to parameter 101, 102, or 103.

Lighting: 0 to 1000 LUX. Motion Sensitivity: 3 to 5 meters.

Wireless Range: Up to 500 feet/150 metres outdoors.

Parameter 111 will set the interval for Group 1 (parameter 101), parameter 112 will set the interval for Group 2 (parameter 102), and parameter 113 will set the interval (6) Warranty.

Water Proofing: IP42.

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.

When you are done configuring or communicating with your MultiSensor, you can The "Warranty Period" begins on the date the Products is delivered and continues for put it back into sleep mode to conserve battery power. To do this, press and hold its Any repairs under this warranty must be conducted by an authorized Aeon Lab

> service representative and under Aeon Labs' RMA policy. Any repairs conducted by unauthorized persons shall void this warranty.

military authority, civil disturbance, war, strikes, fires, other catastrophes, misuse, misapplication, storage damage, negligence, electrical power problems, or modification to the Products or its components.

Excluded from the warranty are problems due to accidents, acts of God, civil o

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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. Consul 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. OR USE OF PRODUCTS SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING WITHIN

Contact your local government for information regarding the collection systems THIRTY (30) DAYS FROM AEON LABS'S DELIVERY, OR THE DATE FIXED FOR DELIVERY IN

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