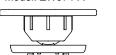


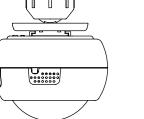
MULTISENSOR GENE



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

Model: ZW074-A





Aeotec by Aeon Labs MultiSensor

Motion sensor. Humidity sensor. Thermometer. Light sensor.

The corner of your room just got smart.

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

(2) Familiarize yourself with your MultiSensor.

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

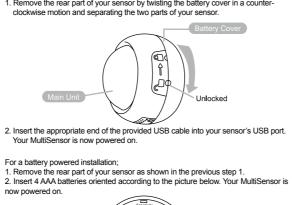
Package Contents:

- 1) MultiSensor Gen5
- 2) Back-Mount Plate
- 3) Back-Mount Arm
- 4) USB Cable 5) Screws (x2)



For a USB powered installation:

Remove the rear part of your sensor by twisting the battery cover in a counter-



AAA G

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

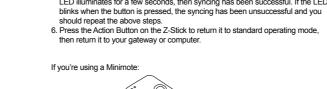
- Press the Z-Wave Button on your MultiSensor.
- 5. You can test if your MultiSensor has been successfully synced with your Z-Wave network by pressing its Z-Wave Button. If you press the button and your sensor's

2. Take vour Z-Stick to your MultiSensor

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

Include

If you're using a Z-Stick:



Add your MultiSensor to your Z-Wave network.

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 manual for network inclusion instructions.

AAA

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

 - Press the Z-Wave Button on your MultiSensor.
 - 4. You can test if your MultiSensor has been successfully synced with your Z-Wave 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.
 - 5. Press any button on your Minimote to return it to standard operating mode

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

Selecting a location for your MultiSensor.

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

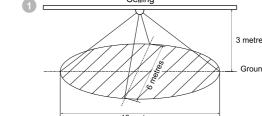


humidifiers, and heaters, and avoid positioning it directly opposite a window or direct

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.

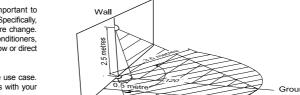
For ceiling mounting using the Back-Mount Plate:



you should orient your MultiSensor according to the following diagram so that the 10 metres

sensor perforations on the side of your sensor are facing downwards. Water can enter humidity sensor

For wall mounting using the Back-Mount Arm:



Physically install your MultiSensor.

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

WRONG

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 is. As such, during installation

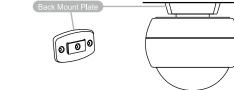
To physically install your MultiSensor;

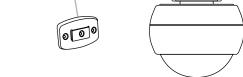
1. Reattach the two parts of your MultiSensor to each other. To do this, align the lock/unlock half-dimple markers that are under the unlock symbol and then twist in a clockwise motion.

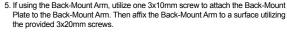
2. If used the USB cable to power your MultiSensor, ensure that power can be provided to your desired installation location. Please note that when installed in areas that where the temperature can drop below -10°C, it is advised that mains power is used and battery power is not.



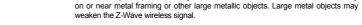
- 4. If using the Back-Mount Plate, utilize the provided 3mm screws to affix it to a surface.







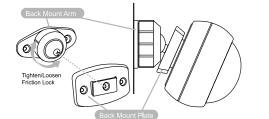
6. The Back-Mount Arm may be locked at various angles by turning the Friction Lock clockwise and counter-clockwise to respectively tighten or loosen the angle of the



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



performed in any location with your home, and not necessarily in your MultiSensor's



Advanced functions.

Changing batteries.

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 lose their charge over time.

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-Wave 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.



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

Monitoring motion.

minutes or 240 seconds.

If you're using a Minimote:

Remove



- Take your Minimote to your MultiSensor.
- Press the Remove Button on your Minimote.
- 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-wave 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 commands for the support of 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 controller's operation manual for specific instructions on setting your timing and start timing again.

Setting automatic report flags this function is Configuration Command Class) Please consult the operation manual for these control points for specific instructions on setting the MultiSensor. Parameter 101-103 [4 byte decimal] can be configured through your gateway in case

default settings of your MultiSensor are not what you desire. 128 Light Sensor

seconds as you like. So if you want the time out to be 5 minutes after the Motion The table above shows a decimal representation of all flags that can be set on

Adjusting the sensitivity of your MultiSensor

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

Monitoring temperature, humidity and luminance.

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

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

And if you want to report all of the sensors, you would add the whole table together Operating Temperature: -10°C to 60°C and set the sum (225) to parameter 101, 102, or 103. Measured Temperature Range: -10°C to 50°C. Accuracy: ±1°C

Setting an automatic report interval.

Parameter 111-113 [4 byte decimal] can be configured through your gateway in case Water Proofing: IP42. Wireless Range: Up to 500 feet/150 metres outdoors.

accomplish this.

Resetting your MultiSensor.

then turn off as a confirmation.

Lighting: 0 to 1000 LUX.

Motion Sensitivity: 3 to 5 meters.

Humidity Range: 20% to 80%, Accuracy: ±5% (at 25°C).

(6) Warranty. 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 Your MultiSensor can report temperature, humidity, and luminance across a Z-Wave for Group 3 (parameter 103). Aeon Labs warrants to the original purchaser of Products that for the Warranty Period network when requested. If this function is supported by a controller, generally (as defined below), the Products will be free from material defects in materials and As an example, you have set parameter 101 to 225 which will report all of the a gateway, the data will be displayed within its interface. The specific Z-Wave workmanship. The foregoing warranty is subject to the proper installation, operation sensors, and you want to report it every 1800 seconds. Set parameter 111 to 1800 to

At some stage or your primary controller is missing or inoperable, you may also wis

to reset all of your MultiSensor's settings to their factory defaults. To do this, press

Waking up vour Multisensor.

If your MultiSensor is battery powered, you will need to ensure that it is active when remove the Products and to refund the nurchase price to Customer configuring it. To do this, press and hold its Z-Wave Button for 3 seconds and then release it. Your MultiSensor's LED should now be solid to indicate that it is active.

When you are done configuring or communicating with your MultiSensor, you can put it back into sleep mode to conserve battery power. To do this, press and hold its Z-Wave button for 3 seconds and then release it. Your MultiSensor's LED should unauthorized persons shall void this warranty. now be off to indicate that it is asleen.

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

12 months.

Aeon Labs does not authorize any person or party to assume or create for it any other obligation or liability in connection with the Products except as set forth herein

the operating manual supplied to Customer. Warranty claims must be made by

and hold the Z-Wave Button for 20 seconds and then release it. Your MultiSensor Aeon Labs will pass on to Customer all manufacturers' Material warranties to the will now be reset to its original settings, and the LED will stay solid for 2 seconds and extent that they are transferable, but will not independently warrant any Material

> Customer must prepay shipping and transportation charges for returned Products. and insure the shipment or accept the risk of loss or damage during such shipment and transportation. Aeon Labs will ship the repaired or replacement products to

Customer freight prepaid.

injury to property to the extent any of the foregoing is proximately caused either by a

defective product (including strict liability in tort) or by the negligent or willful acts or

shareholders, directors, officers, employees, contractors, agents and other representatives harmless from all demands, claims, actions, causes of action, proceedings, suits, assessments, losses, damages, liabilities, settlements, iudgments, fines, penalties, interest, costs and expenses (including fees and disbursements of counsel) of every kind (i) based upon personal injury or death or

(ii) arising from or relating to any actual or alleged infringement or misappropriation of any patent, trademark, mask work, copyright, trade secret or any actual or alleged violation of any other intellectual property rights arising from or in connection with the products, except to the extent that such infringement exists as a result of Aeon Labs' manufacturing processes. and maintenance of the Products in accordance with installation instructions and

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Customer in writing within thirty (30) days of the manifestation of a problem. Aeon OR USE INCURRED BY CUSTOMER OR ANY THIRD PARTY, WHETHER IN AN ACTION IN Labs' sole obligation under the foregoing warranty is, at Aeon Labs' option, to repair, CONTRACT, OR TORT, OR OTHERWISE EVEN IF ADVISED OF THE POSSIBILITY OF SUCH replace or correct any such defect that was present at the time of delivery, or to DAMAGES, AFON LABS' LIABILITY AND CUSTOMER'S EXCLUSIVE REMEDY FOR ANY CAUSE OF ACTION ARISING IN CONNECTION WITH THIS AGREEMENT OR THE SALE OR USE OF THE PRODUCTS, WHETHER BASED ON NEGLIGENCE, STRICT LIABILITY, BREACH OF The "Warranty Period" begins on the date the Products is delivered and continues for WARRANTY BREACH OF AGREEMENT, OR FOUITABLE PRINCIPLES, IS EXPRESSLY LIMITED TO, AT AFON LABS' OPTION, REPLACEMENT OF OR REPAYMENT OF THE PURCHASE PRICE FOR THAT PORTION OF PRODUCTS WITH RESPECT TO WHICH DAMAGES ARE CLAIMED Any repairs under this warranty must be conducted by an authorized Aeon I abs ALL CLAIMS OF ANY KIND ARISING IN CONNECTION WITH THIS AGREEMENT OR THE SAL service representative and under Aeon Labs' RMA policy. Any repairs conducted by OR USE OF PRODUCTS SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING WITHIN THIRTY (30) DAYS FROM AFON LABS'S DELIVERY, OR THE DATE FIXED FOR DELIVERY IN THE EVENT OF NONDELIVERY

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Customer shall indemnify, defend, and hold Aeon Labs and Aeon Labs' affiliates. 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.

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

Contact your local government for information regarding the collection systems









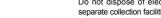
its subsidiaries in the United States and other countries











Certifications (regional):



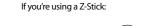






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default, if the Motion Sensor is not triggered again, the MultiSensor will send Basic Set Command to these devices to set them to their "CLOSE" state. However, if the Motion Sensor is triggered again within 4 minutes, the MultiSensor will reset the

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

Setting Motion Sensor delay time.

Decimal Parameter 3 [2 byte decimal] can be configured through your gateway in case the

For example, this parameter setting is initially set to 240 which is the delay time in 4 Humidity Sensor

Temperature Sensor You may set the value to the desired Motion Sensor delay time to any amount of Battery Sensor

Sensor is triggered, set this parameter to 300. parameter 101-103 to report specific data.

Example use of the report table.

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

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