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## AEOTEC ZWA045-A

# Aeotec TriSensor 8 User Manual

BRAND: AEOTEC

Model: ZWA045-A

## PRODUCT OVERVIEW

The Aeotec TriSensor 8 is a versatile Z-Wave 800 Series device designed to enhance your smart home security and automation. This compact sensor integrates three essential functions: motion detection, temperature sensing, and ambient light measurement. It is engineered for reliable performance and broad compatibility with various Z-Wave gateways.



Figure 1: Aeotec TriSensor 8 and its packaging.

With its advanced Z-Wave 800 chip, the TriSensor 8 offers extended range capabilities, including Z-Wave Long Range, providing up to 2500 feet of connectivity in optimal conditions. It operates wirelessly using a single CR123A battery, offering an estimated battery life of one year, making it convenient for placement anywhere in your home without the need for power outlets.

The sensor's motion detection is accurate up to 23 feet, while its temperature sensor measures from -10C to 50C (14F to 122F) with an accuracy of 1C. The light sensor provides readings from 0 to 30000 LUX with 3% accuracy. These capabilities allow for precise automation scenarios, such as turning lights on only when motion is detected and the ambient light is low, or adjusting heating based on room temperature.

## COMPONENTS AND WHAT'S INCLUDED

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The Aeotec TriSensor 8 package typically includes the following:

- Aeotec TriSensor 8 device
- Mounting bracket (if applicable, not explicitly listed but common)
- Screws and wall plugs (if applicable)
- 1 x CR123A battery (may be included or required separately)

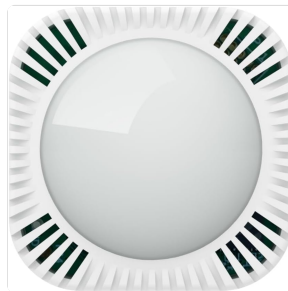


Figure 2: Front of TriSensor 8.



Figure 3: Battery Compartment.



Figure 4: Back of TriSensor 8 with label.

Familiarize yourself with the device's physical features, including the sensor dome, battery compartment, and any pairing buttons, before proceeding with installation.

## SETUP AND INSTALLATION

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### 1. Battery Installation

The TriSensor 8 is powered by one CR123A battery. To install the battery:

1. Carefully open the back cover of the TriSensor 8.
2. Insert the CR123A battery into the battery compartment, ensuring correct polarity (+ and -) as indicated inside the compartment.
3. Close the back cover securely.



Figure 5: Battery installation for the TriSensor 8.

## 2. Pairing with a Z-Wave Gateway

The TriSensor 8 must be paired with a compatible Z-Wave gateway (hub) to function within your smart home system. Compatible gateways include, but are not limited to, Samsung SmartThings, Vera, Zipabox, Open Z-Wave, Homeseer HS3, Domoticz, and Isy994i ZW universal controller.

The exact pairing process may vary slightly depending on your Z-Wave gateway. Generally, the steps involve:

1. Put your Z-Wave gateway into inclusion (pairing) mode. Refer to your gateway's manual for specific instructions.
2. On the TriSensor 8, locate the action button (often a small button near the battery compartment or on the back).
3. Press the action button once. The sensor's LED indicator may flash to confirm it's attempting to pair.
4. Once successfully paired, your gateway should confirm the addition of the new device. The sensor's LED may change state (e.g., turn solid or off).
5. If pairing fails, try moving the sensor closer to the gateway and repeat the process. You may need to exclude (unpair) the device first if it was previously paired or if the inclusion failed multiple times.

## 3. Placement Considerations

Optimal placement is crucial for the TriSensor 8's performance:

- **Motion Detection:** Place the sensor where it has a clear line of sight to the area you wish to monitor. Avoid placing it directly facing heat sources or in direct sunlight, which can cause false triggers.
- **Temperature Sensing:** For accurate temperature readings, avoid placing the sensor near vents, windows, or appliances that generate heat or cold.
- **Light Sensing:** Ensure the sensor's light sensor is not obstructed and is exposed to the ambient light conditions of the room.
- **Mounting:** The TriSensor 8 can be placed on a flat surface or mounted on a wall or ceiling using the provided mounting accessories. Consider the desired detection area when choosing a mounting height.

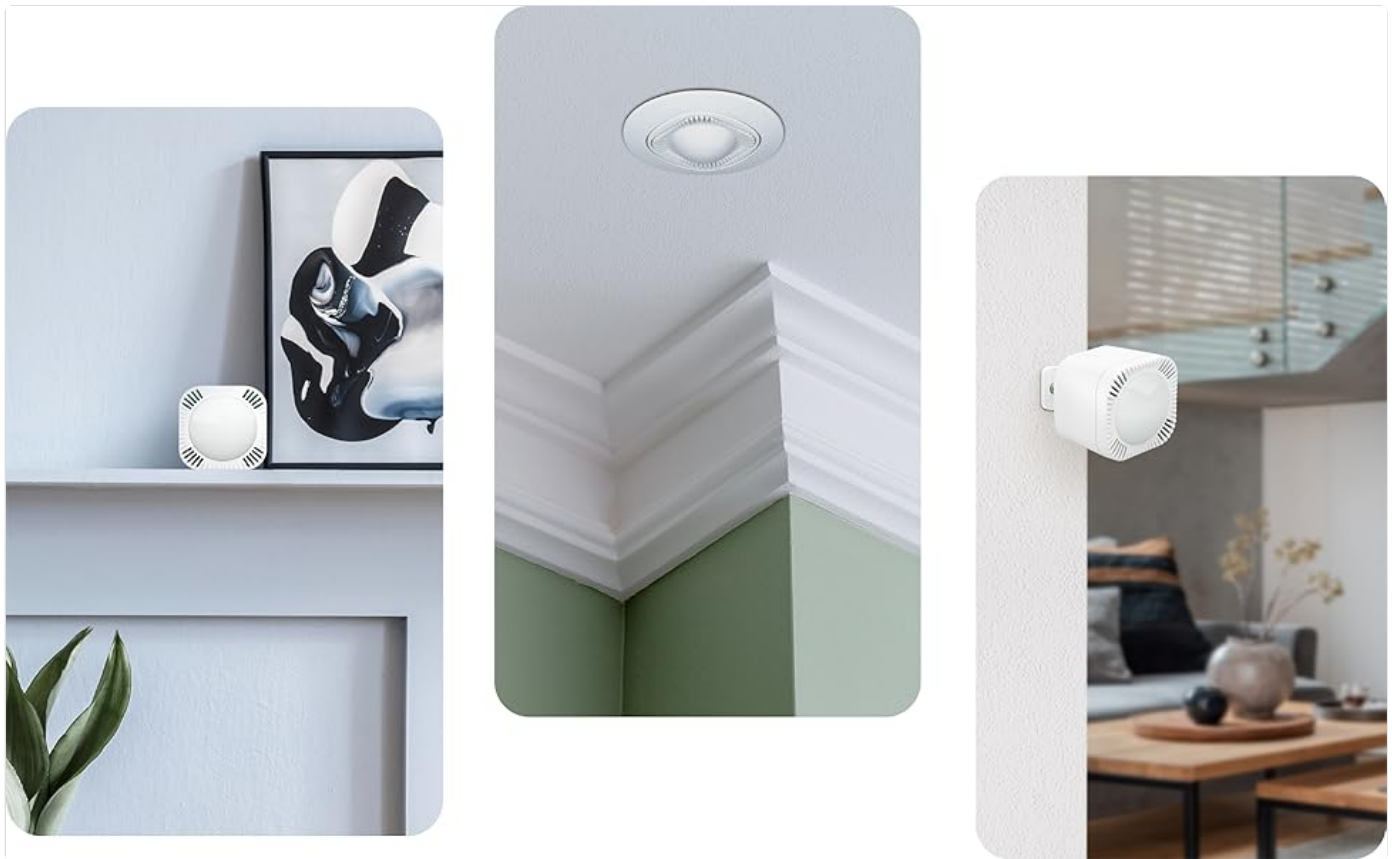


Figure 6: Various mounting options for the TriSensor 8.

## OPERATING INSTRUCTIONS

Once paired, the TriSensor 8 will begin reporting data to your Z-Wave gateway. You can then use your gateway's interface or associated smart home apps to view sensor data and create automation rules.

### Motion Detection

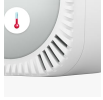


The TriSensor 8 detects motion within a range of up to 23 feet. When motion is detected, the sensor sends an update to your Z-Wave gateway. You can use this trigger to activate lights, security alarms, or other smart devices. The sensor features adjustable calibration with 3 levels of sensitivity, allowing you to fine-tune its responsiveness to suit your environment and avoid false triggers from pets or minor movements.



Figure 7: Motion detection can trigger various smart home actions.

## Temperature Sensing



The integrated temperature sensor provides readings between -10C and 50C (14F and 122F) with high accuracy. This data can be used to monitor room climate, trigger heating or cooling systems, or simply log temperature changes over time. For example, you can set up an automation to turn on a heater if the room temperature drops below a certain threshold.

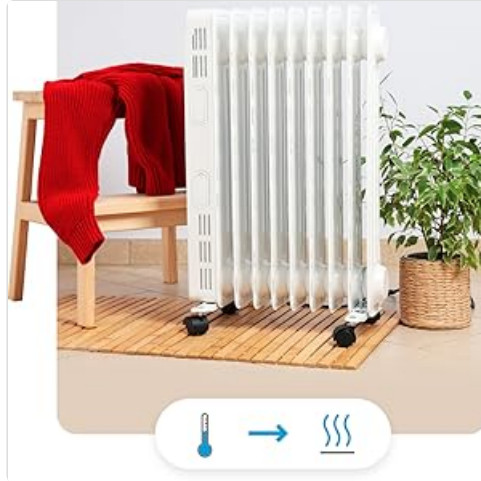


Figure 8: Temperature sensing for climate control.

## Light Sensing



The TriSensor 8 measures ambient light levels from 0 to 30000 LUX. This feature is particularly useful for energy-saving automations, such as ensuring lights only turn on when it's dark enough, even if motion is detected. This prevents unnecessary lighting during daylight hours.

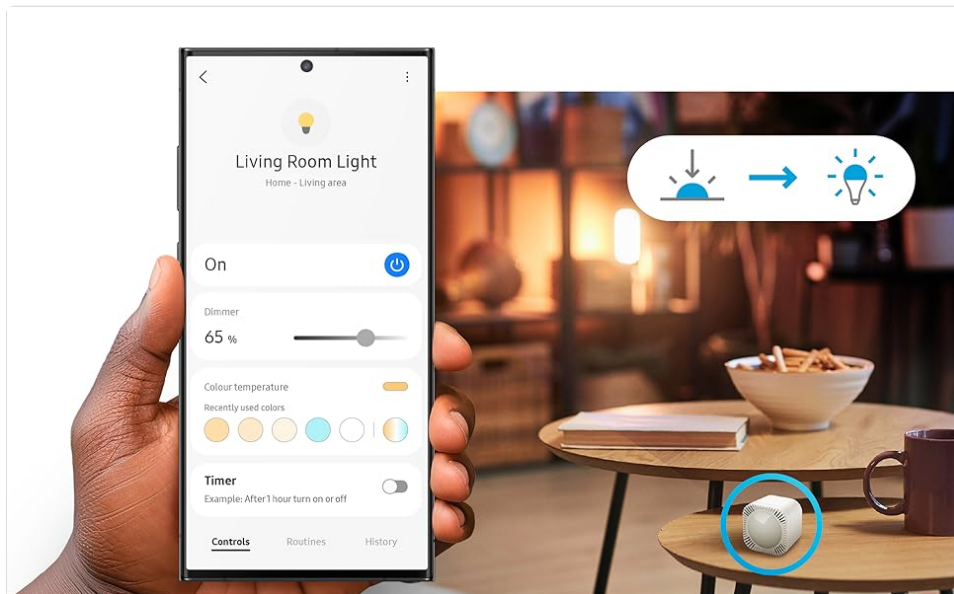


Figure 9: SmartThings app integration showing light-based automation.

## Z-Wave 800 Series and Long Range

The TriSensor 8 utilizes the latest Z-Wave 800 Series technology, offering improved communication range and efficiency. It also supports Z-Wave Long Range (LR), which can extend the wireless communication distance up to 2500 feet in open air, significantly improving network coverage in larger homes or properties.



Figure 10: Z-Wave Plus LR.



Figure 11: Z-Wave 800 Series Chip.

## MAINTENANCE

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### Battery Replacement

The TriSensor 8 is designed for long battery life (approximately 1 year). When the battery level is low, your Z-Wave gateway should report this status. To replace the battery:

1. Open the back cover of the device.
2. Remove the old CR123A battery.
3. Insert a new CR123A 3V Lithium battery, observing the correct polarity.
4. Close the back cover securely.

It is recommended to use high-quality lithium CR123A batteries for optimal performance and battery life.

### Cleaning

To maintain the sensor's performance, periodically clean its exterior. Use a soft, dry cloth to wipe away dust. Do not use abrasive cleaners, solvents, or immerse the device in water.

## TROUBLESHOOTING

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If you encounter issues with your Aeotec TriSensor 8, consider the following troubleshooting steps:

- **Device Not Responding/Offline:**

- Check the battery level. Replace if low.
- Ensure the device is within range of your Z-Wave gateway. Walls and large metal objects can reduce signal strength.
- Try re-pairing the device with your Z-Wave gateway. You may need to perform an exclusion first.

- **Inaccurate Readings (Temperature/Light):**

- Verify the sensor's placement. Ensure it's not near heat sources, direct sunlight, or obstructions.
- Some Z-Wave gateways allow for calibration offsets for temperature. Check your gateway's settings.

- **False Motion Triggers:**

- Adjust the motion sensor's sensitivity settings through your Z-Wave gateway, if supported.

- Ensure the sensor is not pointing at moving objects (e.g., curtains, pets) or heat sources.

- **Inclusion/Exclusion Issues:**

- Perform a factory reset on the TriSensor 8 (refer to the official Aeotec support documentation for specific steps, as this often involves pressing the action button multiple times or holding it).
- Ensure your gateway is in the correct mode (inclusion for adding, exclusion for removing).

For more detailed troubleshooting or advanced configuration, please refer to the official Aeotec support website or contact their customer service.

## SPECIFICATIONS

Feature	Specification
Model Number	ZWA045-A
Brand	AEOTEC
Color	White
Power Source	Battery Powered (1 x CR123A)
Battery Life (Estimated)	12 months
Motion Detection Range	Up to 23 Feet
Temperature Range	-10C to 50C (14F to 122F) with 1C accuracy
Light Sensor Range	0 to 30000 LUX with 3% accuracy
Wireless Technology	Z-Wave 800 Series, Z-Wave Long Range (LR) capable
Maximum Range (Long Range)	Up to 2500 ft (762 m)
Item Weight	1.76 ounces
Product Dimensions	1.38"D x 1.77"W x 1.77"H
Mounting Type	Wall Mount
Compatible Devices	Certified Z-Wave gateways (e.g., SmartThings, Vera)
UPC	810667020200

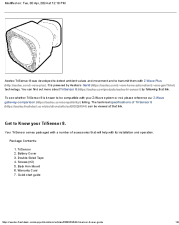
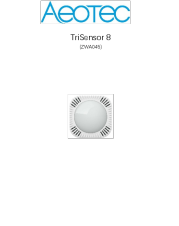


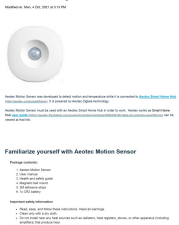
## WARRANTY AND SUPPORT

Aeotec products are designed for reliability and performance. For specific warranty information, please refer to the warranty card included with your product or visit the official Aeotec website. Keep your proof of purchase for warranty claims.


For technical support, frequently asked questions, and additional resources, please visit the official Aeotec support portal. You can also find more information and products at the [Aeotec Store on Amazon](#).



## Related Documents - ZWA045-A

	<p><a href="#">Aeotec TriSensor 8 User Guide: Setup, Features, and Safety</a></p> <p>Comprehensive user guide for the Aeotec TriSensor 8, detailing its Z-Wave Plus functionality, installation steps, button operations, safety precautions, and advanced features for smart home automation.</p>
	<p><a href="#">Aeotec TriSensor 8 (ZWA045) User Manual - Smart Home Sensor</a></p> <p>User manual for the Aeotec TriSensor 8 (ZWA045), a Z-Wave Plus smart home sensor with temperature, light, and motion detection. Learn about its features, specifications, and Z-Wave network integration.</p>
	<p><a href="#">Aeotec Motion Sensor User Guide: Setup, Connection, and Operation</a></p> <p>Comprehensive guide for the Aeotec Motion Sensor (IM6001-MTP). Learn how to connect, use, remove, and factory reset the sensor with Aeotec Smart Home Hub and SmartThings Connect.</p>
	<p><a href="#">Aeotec TriSensor ZWA005 User Manual and Specifications</a></p> <p>Comprehensive guide to installing, configuring, and using the Aeotec TriSensor ZWA005 Z-Wave motion, temperature, and light sensor. Includes setup, association, parameter configuration, and safety information.</p>
	<p><a href="#">Aeotec Motion Sensor User Guide: Setup, Usage, and Troubleshooting</a></p> <p>Comprehensive user guide for the Aeotec Motion Sensor, covering setup with Aeotec Smart Home Hub, usage within the SmartThings app, battery replacement, and factory reset procedures.</p>



	<p><a href="#">Aeotec TriSensor 8: Z-Wave Plus Multi-Sensor Manual and Configuration Guide</a></p> <p>Comprehensive guide to the Aeotec TriSensor 8, a Z-Wave Plus multi-sensor detecting motion, temperature, and light. Includes quickstart, installation, safety, inclusion/exclusion, product usage, troubleshooting, association, configuration parameters, and technical data.</p>
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