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AEOTEC ZWA024-A

Aeotec MultiSensor 7 Z-Wave Plus 6-in-1 Sensor Instruction Manual

Model: ZWA024-A

1. Introduction

The Aeotec MultiSensor 7 is a sophisticated Z-Wave Plus device designed to enhance your smart home environment by providing comprehensive environmental monitoring. This compact sensor integrates six distinct sensing capabilities into a single unit: motion, temperature, light (lux), humidity, ultraviolet (UV) light, and vibration. It leverages 700 Series Z-Wave technology for improved performance and communication. This manual provides detailed instructions for the installation, setup, operation, and maintenance of your MultiSensor 7, ensuring optimal performance and integration with your Z-Wave network.















Image: Aeotec MultiSensor 7 with its six sensing capabilities highlighted.

2. PRODUCT CONTENTS

Verify that your package contains the following items:

- MultiSensor 7 device
- Mounting arm
- 2 x CR123A batteries
- User manual (this document)
- · Warranty card
- · Double-sided tape
- 2 x Screws



Image: All components included in the MultiSensor 7 package, including the sensor, mounting arm, batteries, and installation hardware.

3. KEY FEATURES

The Aeotec MultiSensor 7 offers a range of features designed for comprehensive smart home monitoring:

- 6-in-1 Sensing: Monitors motion, humidity, temperature, light (lux), UV, and vibration.
- **Compact Design:** Super-small form factor at 1.8 inches (45mm x 45mm x 35mm), allowing for discreet placement.
- **700 Series Z-Wave:** Utilizes the latest Z-Wave Plus Gen7 technology for faster, more efficient, and secure communication.
- Flexible Power Options: Can be powered wirelessly using the included CR123A batteries or continuously via a USB power supply.
- SmartStart Enabled: Simplifies the inclusion process with compatible Z-Wave gateways.
- **Enhanced Performance:** Offers faster spatial measurements, increased maximum detection range, faster wireless communication, and better battery performance compared to previous generations.

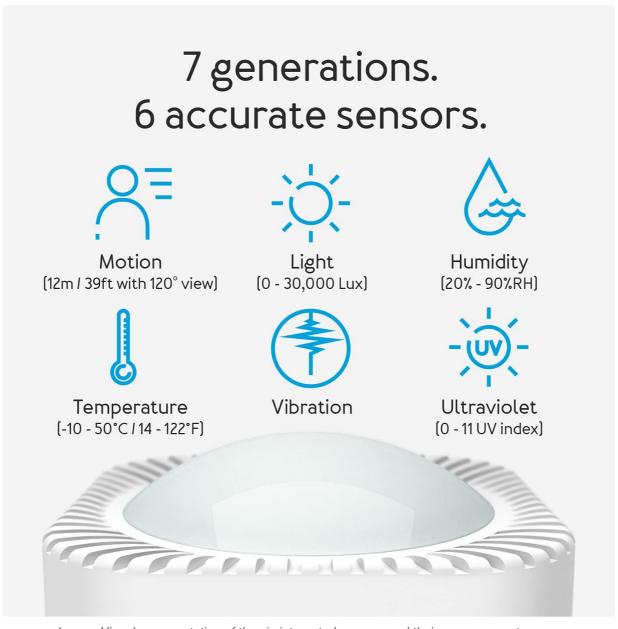


Image: Visual representation of the six integrated sensors and their measurement ranges.

18%

Calculates spatial measurements 18% faster

240%

Increased maximum detection range

70%

Faster wireless communication



64%

Better battery performance

7th generation upgrades.

Versus Aeotec MultiSensor 6.

Image: Comparison of MultiSensor 7 performance upgrades over MultiSensor 6.

4. Installation and Mounting

The MultiSensor 7 offers versatile mounting options to suit various environments. Choose the method that best fits your installation needs.

4.1 Mounting Options

The sensor can be installed in corners, on shelves, or recessed into walls or ceilings (requires an optional Aeotec Recessor, sold separately).

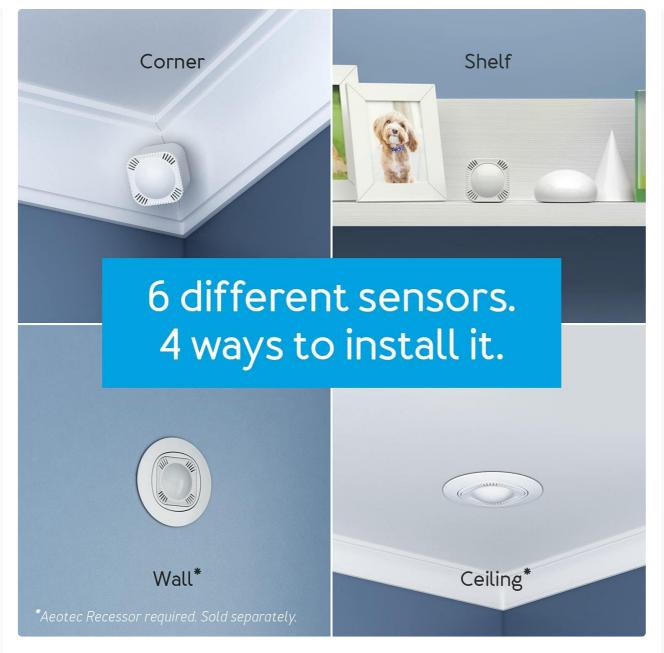


Image: Examples of MultiSensor 7 mounted in a corner, on a shelf, recessed in a wall, and recessed in a ceiling.

4.2 General Mounting Steps

- 1. Select a suitable location for optimal sensor performance. Consider motion detection range (up to 16 feet) and environmental factors for temperature/humidity readings.
- 2. Attach the mounting arm to your desired surface using the provided screws or double-sided tape.
- 3. Securely attach the MultiSensor 7 to the mounting arm. Ensure it is firmly in place.
- 4. Adjust the sensor's angle if necessary to optimize motion detection coverage.

5. Powering the Device

The MultiSensor 7 can be powered in two ways:

- **Battery Powered:** Uses two CR123A batteries (included). This option provides wireless flexibility and a battery life of approximately 3 years, depending on usage and reporting frequency.
- **USB Powered:** For continuous operation and to enable the sensor to act as a Z-Wave repeater, connect a standard USB power supply (5V DC, 1A minimum) to the micro-USB port on the device.

Power by batteries or USB. Engineered with the best power configuration possible. 2 x CR123A batteries powered

Image: Internal view of the MultiSensor 7 showing battery compartment and USB power input.

5.1 Battery Installation

- 1. Gently twist the front cover of the MultiSensor 7 counter-clockwise to open it.
- 2. Insert the two CR123A batteries, observing the correct polarity (+/-).
- 3. Replace the front cover by aligning it and twisting clockwise until it clicks into place.

6. Z-WAVE NETWORK INCLUSION (SETUP)

To integrate your MultiSensor 7 into your smart home system, it must be paired with a Z-Wave hub or gateway.

6.1 SmartStart Inclusion

If your Z-Wave gateway supports SmartStart, you can add the MultiSensor 7 by scanning its DSK QR code.

 Open your Z-Wave gateway's app or interface and select the option to add a new device using SmartStart.

- 2. Scan the QR code located on the MultiSensor 7's packaging or on the device itself.
- 3. Power on the MultiSensor 7 (insert batteries or connect USB). It will automatically begin the inclusion process.
- 4. The sensor will appear in your gateway's device list once successfully included.

6.2 Manual Inclusion

For gateways that do not support SmartStart, or for manual pairing:

- 1. Place your Z-Wave gateway into 'inclusion' or 'add device' mode. Refer to your gateway's manual for specific instructions.
- 2. Bring the MultiSensor 7 close to your Z-Wave gateway.
- 3. Press the Action Button on the MultiSensor 7 once. The LED will flash rapidly to indicate inclusion mode.
- 4. If successful, the LED will stop flashing, and the sensor will appear in your gateway's device list.
- 5. If inclusion fails, the LED will remain solid for a few seconds and then turn off. Repeat the process.

6.3 Z-Wave Network Exclusion

To remove the MultiSensor 7 from your Z-Wave network:

- 1. Place your Z-Wave gateway into 'exclusion' or 'remove device' mode.
- 2. Press the Action Button on the MultiSensor 7 once. The LED will flash rapidly.
- 3. If successful, the LED will stop flashing, and the sensor will be removed from your gateway's device list.

7. Sensor Operation

Once included in your Z-Wave network, the MultiSensor 7 will begin reporting data from its various sensors to your Z-Wave gateway.

- **Motion Sensor:** Detects movement within its field of view (up to 16 feet with a 120° view). Reports motion events to the gateway.
- **Temperature Sensor:** Measures ambient temperature (range: -10°C to 50°C / 14°F to 122°F). Reports temperature changes based on configured thresholds or intervals.
- **Humidity Sensor:** Measures relative humidity (range: 20% to 90% RH). Reports humidity changes based on configured thresholds or intervals.
- Light (Lux) Sensor: Measures ambient light levels (range: 0 to 30,000 Lux). Reports light intensity changes.
- UV Sensor: Measures ultraviolet light index (range: 0 to 11 UV index). Reports UV levels.
- Vibration Sensor: Detects physical vibrations or tampering. Can be used for security alerts or to detect device movement.

Reporting intervals and sensitivity for each sensor can typically be configured through your Z-Wave gateway's device settings. Refer to your gateway's documentation for advanced configuration options.

8. COMPATIBILITY

The Aeotec MultiSensor 7 is compatible with various Z-Wave hubs and smart home platforms that support Z-Wave Plus devices, including:

SmartThings

- Hubitat
- Home Assistant
- Z-Wave JS
- Autopilot
- Eedomus
- HomeSeer
- ELAN

For detailed compatibility information and specific gateway instructions, scan the QR code below or visit the provided link:

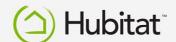
Compatible with Z-wave.

















Scan the QR code to learn more about MultiSensor 7's gateway compatibility.





and



Image: Logos of compatible Z-Wave hubs and a QR code for more information. **Scan for Gateway Compatibility Information**

9. MAINTENANCE

9.1 Battery Replacement

When the battery level is low, the MultiSensor 7 will report this to your Z-Wave gateway. To replace the

batteries:

- 1. Gently twist the front cover of the MultiSensor 7 counter-clockwise to open it.
- 2. Remove the old CR123A batteries.
- 3. Insert two new CR123A batteries, ensuring correct polarity.
- 4. Replace the front cover by aligning it and twisting clockwise until it clicks into place.

9.2 Cleaning

To clean the MultiSensor 7, wipe it with a soft, dry cloth. Avoid using abrasive cleaners or solvents, as these can damage the device.

10. TROUBLESHOOTING

If you encounter issues with your MultiSensor 7, consider the following common problems and solutions:

• Sensor Not Reporting / Slow Updates:

- Ensure the sensor is within range of your Z-Wave hub or a Z-Wave repeater.
- Check battery levels. Low batteries can affect reporting frequency.
- Verify the sensor's configuration settings in your Z-Wave gateway. Reporting intervals and thresholds might be set too high.
- If USB powered, ensure the power supply is stable.

• Inaccurate Temperature Readings:

- The sensor's internal temperature can be affected by its own operation or power source. Some
 users report a slight offset (e.g., 5 degrees Fahrenheit higher). Your Z-Wave gateway may offer
 calibration options to adjust the reported temperature.
- Ensure the sensor is not placed near heat sources (e.g., direct sunlight, electronics, vents) or cold drafts.

· Motion Detection Issues:

- Verify the sensor's placement and angle. Obstructions can block its field of view.
- Adjust motion sensitivity settings in your Z-Wave gateway if available.
- Ensure the motion sensor is enabled and configured correctly in your smart home rules.

Device Not Pairing:

- Ensure the sensor is in close proximity to the Z-Wave hub during the inclusion process.
- Try performing a Z-Wave exclusion first, even if the device has never been included, to clear any lingering network data.
- Check that your Z-Wave hub is in inclusion mode.

• Unexpected Behavior (e.g., Vibration alerts instead of Motion):

 This may indicate a configuration issue or a device-specific anomaly. Check your Z-Wave gateway's device handler or driver settings to ensure the correct sensor types are being interpreted.

11. TECHNICAL SPECIFICATIONS

Specification	Value
Brand	AEOTEC
Model Number	ZWA024-A
Color	White
Power Source	Battery Powered (2 x CR123A) or USB Powered (5V DC, 1A)
Battery Life	Approximately 3 years (battery dependent)
Item Weight	2.6 Ounces (73.7 grams)
Product Dimensions	1.77"D x 1.77"W x 1.38"H (45mm x 45mm x 35mm)
Maximum Motion Range	16 Feet (4.8 meters)
Motion Detection View	120 degrees
Mounting Type	Wall Mount, Corner Mount, Shelf, Recessed (with optional accessory)
Operating Temperature	-10°C to 50°C (14°F to 122°F)
Compatible Devices	Z-Wave Hub, SmartThings, Hubitat, Home Assistant, etc.
Z-Wave Technology	Z-Wave Plus, Gen7, S2 Security, SmartStart Enabled
UPC	810667025403



Image: Detailed dimensions of the MultiSensor 7.

12. WARRANTY AND SUPPORT

The Aeotec MultiSensor 7 comes with a manufacturer's warranty. Please refer to the warranty card included in your product packaging for specific terms and conditions.

For technical support, troubleshooting assistance, or further product information, please visit the official Aeotec support website or contact their customer service department. Contact details are typically available on the manufacturer's website or in the product packaging.

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[pdf] Agent Authorization

Adam Authorization Letter AEOTEC LIMITED ZWA024 MultiSensor 7 2AOGIZWA024 zwa024

Aeotec Limited Authorization Letter We, the approval holder Company name Addresss

Aeotec Limite ... to Micom Labs for product certification below Product Description

MultiSensor 7 Type or Model s **ZWA024-A** Tradename or Brand s Aeotec Attestation:

City: China Date: Name: this must be a perso...

lang:en score:36 filesize: 80.15 K page_count: 1 document date: 2020-11-23

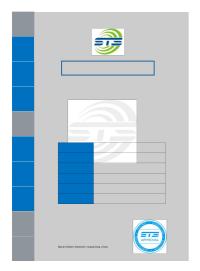


[pdf] Agent Authorization

PLEASE PRINT ON COMPANY LETTERHEAD MiCOM Labs Inc QMS Agent Authorization Rev 1 0 AEOTEC LIMITED ZWA024 MultiSensor 7 2AOGIZWA024 zwa024

Aeotec Limited Agent Authorization Company: Aeotec Limited Address: OFFICE 4 10/F KWAN CHART TOWER NO. 6 TONNOCHY ROAD WANCHAI HK Product Name: MultiSensor 7 Model Number s: **ZWA024-A** Product Description: MultiSensor 7 We authorize MiCOM Labs Inc., 575 Boulder Court, Pleasanton, California 94566, US...

lang:en score:34 filesize: 34.91 K page_count: 1 document date: 2020-11-25



[pdf] Test Report

Measurement Report Kent TR STS2009094W01 RF FCC Part 15 249 AEOTEC LIMITED ZWA024 MultiSensor 7 2AOGIZWA024 zwa024

S T S L A B FCC TEST REPORT Report No.: STS2009094W01 Issued for Aeotec Limited OFFICE 4 10/F KWAN CHART TOWER NO. 6 TONNOCHY ROAD WANCHAI HK Product Name: MultiSensor 7 Brand Name: Aeotec Model Name: **ZWA024-A** Series Model: N/A FCC ID: 2AOGIZWA024 Test Standard: FCC Part 15.249 Any reproduction of...

lang:en score:34 filesize: 3.31 M page_count: 31 document date: 2020-11-27



[pdf] User Manual Instructions Label

AL501002400001 AA MultiSensor 7 AL001 EG ai AEOTEC ZWA024 A 01 MANUAL Manual Hub drive google file d 1fL35TlJ5 GEOUyYZk3WsdDHhSLd8iDzd preview |||

ZWA024-A https://manual-hub.com/ https://manual-hub.com/ FCC Warning a 15.19 Labeling requirements. 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 i...

lang:en score:34 filesize: 3.81 M page_count: 3 document date: 2023-09-09



Climax Z-Wave and ZigBee Compatibility Guide for Smart Home Gateways

Explore the Climax Z-Wave and ZigBee Compatibility Guide to discover a wide range of smart home devices, including sensors, switches, and locks, that seamlessly integrate with Climax's Smart Home Security Gateways.

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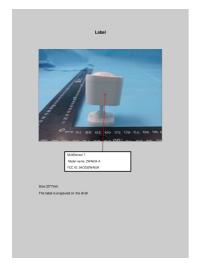


[pdf] Quick Start Guide Instructions Guide Label

AL501002400001 AA MultiSensor 7 AL001 EG AEZWA024 Quick Start Guide homecontrols products s AE Aeotec

ZWA024-A FCC Warning a 15.19 Labeling requirements. 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 ...

lang:en score:29 filesize: 2.8 M page_count: 3 document date: 2020-09-18



[pdf] Label

admin Label AEOTEC LIMITED ZWA024 MultiSensor 7 2AOGIZWA024 zwa024

Label MultiSensor 7 Model name: **ZWA024-A** FCC ID: 2AOGIZWA024 Size:20*7mm The label is engraved on the shell ...

lang:en score:28 filesize: 21.67 K page count: 1 document date: 2020-11-23

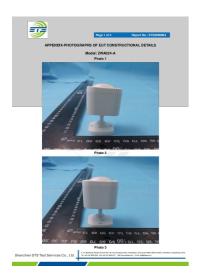


[pdf] Product Photos

admin Test Setup Photos AEOTEC LIMITED ZWA024 MultiSensor 7 2AOGIZWA024 zwa024 Page 1 of 1 DXX Setup photo Model name:**ZWA024-A** DXX radiation L FCC ID: 2AOGIZWA024 DXX radiation H ...

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[pdf] Product Photos

Measurement Report Kent External Photos AEOTEC LIMITED ZWA024 MultiSensor 7 2AOGIZWA024 zwa024

Page 1 of 3 Report No.: STS2009094 APPENDIX-PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS Model: **ZWA024-A** Photo 1 Photo 2 Photo 3 Page 2 of 3 Report No.: STS2009094 Photo 4 Page 3 of 3 Photo 5 Report No.: STS2009094 Photo 6 ...

lang:en score:27 filesize: 490.94 K page_count: 3 document date: 2020-09-30



[pdf] Product Photos Teardown

Measurement Report Kent Internal Photos AEOTEC LIMITED ZWA024 MultiSensor 7 2AOGIZWA024 zwa024

Page 1 of 3 Report No.: STS2009094 APPENDIX-PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS Model: **ZWA024-A** Photo 1 Photo 2 TX ANT Page 2 of 3 Photo 3 Report No.: STS2009094 Photo 4 Page 3 of 3 Photo 5 Report No.: STS2009094 Photo 6 ...

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[pdf] Quick Start Guide Instructions Guide Label

AL501002400001 AA MultiSensor 7 AL001 EG FCC Warning a § 15 19 Labeling requirements This device complies with part of the Rules Operation is subject to following two AEZWA024 Quick Start Guide srsltid AfmBOoo6D70MdcH63w8OlijJVEIPODSEjywqktd7n6ePgoXNzBhQIST homecontrols products s AE Aeotec AfmBOor DJGxjswtfX79dUzznMljY984nLIMEZc O0 qikLLu7c4YBwj ||| ||| ZWA024-A FCC Warning a 15.19 Labeling requirements. 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 an

ZWA024-A FCC Warning a 15.19 Labeling requirements. 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 ...

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[pdf] User Manual

AeoTec ZWA024 Multisensor 7 User Manual Denny Chen Aeotec Multi sensor Home Automation hometechsupply 2023 02 |||

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Aeotec Smart Home Products Compatible with SmartThings

A comprehensive list of Aeotec smart home devices, including buttons, sensors, switches, and more, compatible with Aeotec Smart Home Hub and the SmartThings platform.

lang:en score:25 filesize: 93.4 K page_count: 7 document date: 2022-04-01



[pdf] Confidentiality Request Letter

Fiona Ffuellenbach FCC Short Long Term Confidentiality Request AEOTEC LIMITED ZWA024 MultiSensor 7 2AOGIZWA024 zwa024

Aeotec Limited Office of Engineering Technology Federal Communications Commission 7435 Oakland Mills Road Columbia, MD 21046 USA Subject; Request for Confidentiality FCC ID: 2AOGIZWA024 Date: 2020/11/19 To Whom It May Concern, Pursuant to the provisions of the Commission s rules Title 47 Sections... lang:en score:22 filesize: 62 K page_count: 1 document date: 2020-11-23



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Engineering Spec MultiSensor 7 Denny Chen Manuál 780 9 kB AEOTEC ZWA024 My Smart Home aeotec multisensor zwa024 mysmarthome cz user related files |||

Pelozeno z anglictina do cestina - www.onlinedoctranslator.com Rev. 0,6 Multisenzor 7 ZWA024 Rev. 0,6 Technick specifikace Tento produkt lze zahrnout a provozovat v jakkoli sti Z-WaveTM s dalsmi certifikovanmi zazenmi Z-WaveTM od jinch vrobci a/nebo jin aplikace. Vsechny nebateriov provozovan u...

lang:hr score:22 filesize: 780.92 K page count: 24 document date: 2021-01-14



[pdf] User Manual Instructions

Handleiding Multisensor 7 Aeotec ROBBshop 24 nov 2022 — Important safety information Please read this manual carefully Failure to follow the recommendations in may be dangerous or violate the AEO ZWA024 C 1 robbshop nl media 44 63 87 1669316788 |||

Aeotec MultiSensor 7 SKU: AEOEZWA024 Quickstart This is a secure Alarm Sensor for Europe. To run this device please insert fresh 2 * CR123A batteries. Please make sure the internal battery is fully hchuabrgsuedp.p lofrytsouthriZs-.Wave gateway supports SmartStart, you can scan the QR code on the...

lang:en score:21 filesize: 2.29 M page_count: 37 document date: 2022-11-24



Aeotec Product Roadmap May 2024 Update - Smart Home Devices

Explore the Aeotec Product Roadmap for May 2024, featuring a comprehensive list of smart home devices including hubs, controllers, actuators, and sensors. Discover Z-Wave, Zigbee, Wi-Fi, and Matter compatible products from Aeotec and POPP. lang:en score:20 filesize: 1.17 M page_count: 25 document date: 2024-05-07

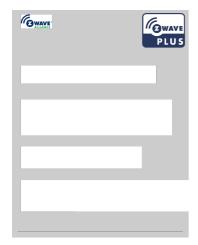


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ZC12 21080291 products z wavealliance org 4088 pics $\mid\mid\mid$

Z-Wave Protocol Implementation Conformance Statement MultiSensor 7 General Information Product Identifier: Brand Name: Product Version: Z-Wave Certification #: **ZWA024-A** Aeotec HW: 1 FW: 1.01 ZC12-21080291 Product Features Battery Type Color Battery Quantity Firmware Updatable CR123A White 2 Up...

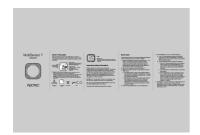
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[pdf] Catalog

MultiSensor 7 Catalog of Certified Z Wave Products 31 dic 2020 — ZC12 20120147 products z wavealliance org 4061 pics

Z-Wave Protocol Implementation Conformance Statement MultiSensor 7 General Information Product Identifier: Brand Name: Product Version: Z-Wave Certification #: ZWA024-C Aeotec HW: 1 FW: 1.01 ZC12-20120147 Product Features Battery Quantity Battery Type Color Firmware Updatable 2 CR123A White Up... lang:en score:18 filesize: 38.7 K page_count: 2 document date: 2021-10-01

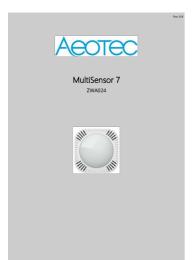


[pdf] User Manual Decleration of Conformity

MultiSensor 7 manual Denny Chen Z Wave Aeotec ZWA024 C Keywords Created Date 12 18 2020 3 06 45 PM in questa guida Gebruikt deze handleiding Används i den här handboken K9111 Battery slot Ranura de la batería Emplacement la apr 2021 — Manufacturer Manual User 1 products z wavealliance org ProductManual File folder filename product documents 4061 doc eedomus files

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[pdf] User Manual Specifications

Engineering Spec MultiSensor 7 Denny Chen AEZWA024_User_Manual homecontrols products pdfs AE-Aeotec

Rev. 0.6 MultiSensor 7 ZWA024 Rev. 0.6 Engineering Specifications This product can be included and operated in any Z-Wave TM network with other Z-Wave TM certified devices from other manufacturers and/or other applications. All non-battery operated nodes within the network will act as repeaters r...

lang:en score:12 filesize: 357.48 K page_count: 24 document date: 2021-01-14