

# VEMMIO

innovation in automation

## smoke sensor

MODEL: SS-100 V1.0



### INTRODUCTION

Thank you for choosing Vemmio. We welcome you in our customer society. Smoke Sensor is a smart photoelectric smoke detector with ultra-low power wireless Z-Wave network technology design. It is a warning device that detects presence of smoke and smoke particles in real-time faster than any ionizing smoke alarms. Once the smoke is detected, the 85 dB siren goes off and after the system has been configured, e-mails, sms or push notifications are sent to the users. Standardized, future-proof Z-Wave wireless technology guarantees reliable operation of your Smoke Sensor over the long term. The sensor works with any Z-Wave-certified controller.

### PACKAGE CONTENTS:

- user manual
- sensor
- pin key
- 2x screws.

### KEY FEATURES

Sensitive photoelectric smoke sensor to notify you about Built-in siren 85 dB  
Very fast smoke detection  
Low-battery use  
Smart and stylish design  
Maintenance free.

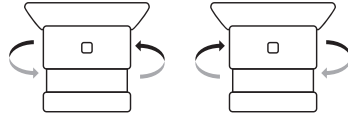
### SPECIFICATION

Wireless standard	Z-Wave Plus
Frequency	868.40 MHz
Network range	70 m line of sight
Operating temperature	-10°C - 50°C
Sound alarm	85 dB
Battery	CR 123A 3V
Battery	1 year, low power indication

### BATTERY INSTALLATION

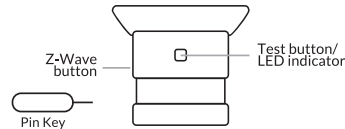
When the device reports the low battery message, the user should replace the battery to new one. The battery type is CR123A, 3V.  
To open the mounting base please follow the below steps:  
1. Turn right to dismantle the mounting base of the device.  
2. Replace the battery (pay attention to polarity). At this stage Warm Up will commence (green, red and yellow lights flashing in turns for 90 sec.).

3. Turn left to install the mounting base of the device.



### INSTALLATION

The Z-Wave button, operated with the pin key, can add, remove, reset or associate the sensor to Z-Wave network.



### ADDING THE DEVICE INTO THE Z-WAVE NETWORK FIRST INCLUSION

Bring the Smoke Sensor within direct range of your controller. Remove the mounting base (see Battery Installation for details) and remove the plastic pull-tab from the battery slot of the device. At this stage Preheating will commence (green, red and yellow lights flashing in turns for 90 sec.). Follow the instructions for your Z-Wave certified controller to enter inclusion mode. When prompted by the controller, using pin key, press Z-Wave button 3 times within 1.5 sec. The sensor will be successfully included to Z-Wave network once the green led is off. The sensor should appear on your controller's device list.  
**Please note: first inclusion may vary depending on your gateway - please see gateway manual for details.**

### INCLUSION\*

Bring the Smoke Sensor within direct range of your controller. Follow the instructions for your Z-Wave certified controller to enter inclusion mode. When prompted by the controller, using pin key, press Z-Wave button 3 times within 1.5 sec. (green LED will flash 3 times within 1 second). The sensor will be successfully included to Z-Wave network once the green led is off. The sensor should appear on your controller's device list.

\*Please note: Always exclude a Z-wave product before trying to add it to a Z-Wave network.

### DEVICE TEST

Once inclusion process is successful, press Test button to test if the device works correctly.

### EXCLUSION

Bring the Smoke Sensor within direct range of your controller. Follow the instructions for your Z-Wave certified controller to enter exclusion mode. When prompted by the controller, using pin key, press the Z-wave button quickly 3 times in a row. Once the LED indicator flashes 6 times and turns off, the exclusion process is successful. The sensor should disappear from your controller's device list.  
If the first attempt is unsuccessful, please repeat the process following all steps carefully.

### ASSOCIATION

Have Z-Wave Controller enter association mode. Pressing tamper key three times within 1.5 seconds will enter association mode.

Group ID	Maximum Nodes	Description
1	1	Association group 1: Lifeline association group include command classes: <ul style="list-style-type: none"> <li>• BATTERY_REPORT</li> <li>• NOTIFICATION_REPORT</li> <li>• BINARY_REPORT</li> <li>• DEVICE RESET LOCALLY NOTIFICATION</li> </ul>

2	5	Association group 2: Root Device group(Binary Sensor) Binary Sensor Command Class; Compatible with 300 series 1-Binary Sensor reports status of smoke or no smoke via Lifeline. 2-When the sensor detects status change between smoke and no smoke, the device will be triggered.
3	5	Association group 3: Root Device group(Notification) 1-Notification reports reports status of detect smoke or no smoke via Lifeline. 2-When the sensor detects status change between smoke and no smoke, the device will be triggered.

### FACTORY RESET

Long press the Z-Wave button while installing batteries in Smoke Sensor. The device will be reset locally and notification will be transmitted.

**Please note: All previously recorded activity and custom settings will be erased from the device's memory.**

### PHYSICAL INSTALLATION

#### Choosing a Suitable Location

- The sensor should be installed on the ceiling preferably in the center (keep 30 cm distance from lighting and decorations and minimum 15 distance from walls and corners). With sloping ceiling - install the sensor 90 cm away from ceiling top.
- Please avoid installation in bathrooms and other very humid places, dusty or greasy areas, or very airy places e.g. near air conditioning or fans.
- Keep the sensor clean and do not let the dust to accumulate. It is recommended to clean the Smoke Sensor every 6 months.

### MOUNTING

**Pay attention! Include the Smoke Sensor to your Z-Wave network before mounting it.**

Please remove the protective layer from the installation base. Following Battery Installation section remove the installation base and, using the provided screws, attach the installation bracket to the ceiling.

#### Over the Air Firmware Update

The device supports the Z-Wave firmware update via OTA. Let the controller into the firmware update mode, and then press the Z-Wave button once to start the update. After completing the firmware download, LED will start flashing every 0.5 second. During this time, please don't remove the battery, otherwise it will cause the firmware failure, and the device will stop functioning. After LED stops flashing, it is recommended that user powers up the device. Caution: After battery removal, please wait about 30 seconds, and then re-install the battery.

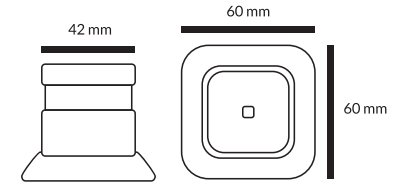
#### Supported Command Classes:

COMMAND\_CLASS\_ASSOCIATION\_GRP\_INFO  
COMMAND\_CLASS\_ASSOCIATION  
COMMAND\_CLASS\_BATTERY  
COMMAND\_CLASS\_DEVICE\_RESET\_LOCALLY  
COMMAND\_CLASS\_MANUFACTURER\_SPECIFIC  
COMMAND\_CLASS\_NOTIFICATION  
COMMAND\_CLASS\_POWERLEVEL  
COMMAND\_CLASS\_SENSOR\_BINARY  
COMMAND\_CLASS\_VERSION  
COMMAND\_CLASS\_WAKE\_UP  
COMMAND\_CLASS\_ZWAVEPLUS\_INFO

### LED INDICATION

Status	LED status	Alarm sound
Normal	Red LED flash every 53 seconds	No sound
Test mode	Red LED flash quickly	Sound 3x beep
Alarm	Red LED flash quickly	Sound 3x beep
Silence mode	Red LED flash once every 10 seconds	No sound
Low battery	Red LED flash once every 53 seconds	Sound 1 x beep every 53 seconds

Fault	Red LED flash twice every 53 seconds	Sound 2 x beep every 53 seconds



### WARRANTY

This Limited Warranty applies to physical goods, and only for physical goods, purchased from Vemmio (the "Physical Goods"). This Limited Warranty of Vemmio, applies to products manufactured and distributed by Vemmio.

### PRODUCTS COVERED AND DURATION OF WARRANTY

Warranty Period: 12 months for business customer and 24 months for individual customer from the date of purchase. The product purchased shall be free from defects in material and workmanship from the date of purchase. This Limited Warranty covers any defects in material or workmanship under normal use during the Warranty Period.

### PRODUCTION STATUS

Each product is manufactured from new parts.

### TERMS OF THE WARRANTY

Vemmio warrants that the product you have purchased from Vemmio or a Vemmio's authorized reseller is free from defects in materials and workmanship under normal use during the warranty period. The warranty period begins on the day of purchase. The warranty extends only to the original purchaser. It is not transferable to anyone who subsequently purchases the product from the original purchaser.  
During the Warranty Period, Vemmio will repair or replace (at the sole discretion of Vemmio), at no charge, products or parts of a product that proves defective. Once the defected product, during the guarantee period, is returned, it will be repaired or replaced no later than within 30 days. The warranty period is extended by the amount of days it has taken to repair or replace the product. All used elements changed under the guarantee become the property of Vemmio. The warranty period for replaced elements expires on the same date as the original warranty period for the product. There is a possibility that it will not be feasible to repair or replace the product (for example when the product is no longer a part of Vemmio's offer). Should this happen, Vemmio will repair/replace the product with parts/product of similar technical characteristics. Such procedure will result in fulfilling Vemmio's warranty obligation against the customer. It is not possible to have money returned by Vemmio for the purchased product. Warranty claim rated by Vemmio as unwarranted will be charged for handling and servicing costs.

#### Vemmio may reject a warranty claim if:

- the product has not been operated according to its intended purpose and the user manual
- the returned product is incomplete
- the cause of insufficient operation is other than a material or production defect
- warranty date has expired or if the customer can not provide proof of purchase.

The Limited Warranty extends only to products purchased from Vemmio or a Vemmio's authorized reseller. The Limited Warranty does not extend to any product that has been damaged or rendered defective (a) as a result of accident, misuse or abuse; (b) as a result of an act of God; (c) by operation outside the usage parameters stated in the user manual; (d) by the use of parts not manufactured or sold by Vemmio (e) by modification of the product; (f) as a result of war or terrorist attack; or (g) as a result of service by anyone other than Vemmio or a Vemmio's authorized service center.

EXCEPT AS EXPRESSLY SET FORTH IN THIS WARRANTY, VEMMIO MAKES NO OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. VEMMIO EXPRESSLY DISCLAIMS ALL WARRANTIES NOT STATED IN THIS LIMITED WARRANTY. ANY IMPLIED WARRANTIES THAT MAY BE IMPOSED BY LAW ARE LIMITED TO THE TERMS OF THIS EXPRESS LIMITED WARRANTY.

#### LIMITED WARRANTY STATEMENT

VEMMIO is not liable for any damages caused by the product or by the failure of the product to perform, including any lost profits, lost savings, incidental damages, or consequential damages. VEMMIO is not liable for any claim made by a third party or made by you for a third party.

This limitation applies whether damages are sought, or a claim made, under this warranty or as a tort claim (including negligence and strict product liability), a contract claim, or any other claim. This limitation can not be waived or amended by any person. This limitation of liability will be effective even if VEMMIO or an authorized VEMMIO'S representative has been advised by you of the possibility of any such damages.

#### HOW TO OBTAIN WARRANTY SERVICE?

Please contact us first through support@vemmio.com for advice because we are very often able to resolve issues/problems without the need for warranty claim.

For a defect during the warranty period, you will need a proof of purchase. Contact your place of purchase or a Vemmio's authorized service center. Return the defective item, freight and insurance prepaid, in the original packaging to your place of purchase. Vemmio is not responsible for any loss or damages incurred in shipping. A Vemmio Failure Analysis/Test Engineer or a Vemmio's authorized reseller must validate all warranty claims.

#### WHAT IS NOT COVERED BY THIS WARRANTY?

Product purchased from anyone other than Vemmio or a Vemmio's authorized reseller.

Routine cleaning or normal cosmetic and mechanical wear.

Damage from misuse, abuse or neglect including ingress of water, dust or damage from dropping.

Damage from use outside the product's usage or storage parameters.

Damage from use of parts not manufactured or sold by Vemmio.

Damage from modification or incorporation into other products.

Damage from repair or replacement of warranted parts by a service provider other than a Vemmio's authorized service provider.

Damage from failure to perform preventative maintenance as imposed by the application environment (such as recurrent cleaning in dusty surroundings).

#### DECLARATION OF CONFORMITY



The manufacturer Vemmio Sp. z o.o. declares under sole responsibility that the product:

Marketing model: Smoke Sensor

Regulatory model: SS-100

Brand name: Vemmio

is in conformity with the Low Voltage Directive 2009/95/EC, EMC Directive 2004/108/EC, R&TTE Directive 1995/5/EC and carries the CE marking accordingly.

The following harmonized standards were applied:

**R&TTE (1995/5/EC)**

EN 300 220-1: V2.4.1

EN 300 220-2: V2.4.1

**EMC (2004/108/EC)**

EN 301 481-1: V1.9.2

EN 301 489-3: V1.6.1

**LVD (2006/95/EC)**

EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011

Changes of modification not expressly approved by Vemmio Sp. z o.o. for compliance could void the user's authority to operate the equipment.



#### FCC INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- 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.
- Consult the dealer or an experienced radio/TV technician for help.

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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

#### IN ACCORDANCE WITH ROHS 2011/65/EU



#### WARNING

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposal at least for free of charge.

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