

# VEMMIO

innovation in automation

## flood sensor

MODEL: FL-100  
V1.0



### INTRODUCTION

Thank you for choosing Vemmio. We welcome you in our customer society. Flood Sensor is a battery powered Z-Wave Plus device that can detect wetness and send a notification. With Vemmio Flood Sensor you can gain peace of mind and reliable security against water damage. Perfect for use in frequently wet spaces. This sensor can be set up to trigger sirens, lights or even turn off the water when used with water main shut-off valve. The sensor works with any Z-Wave-certified gateway.

### PACKAGE CONTENTS:

- user manual
- sensor.

### KEY FEATURES

Early detection of impending water damage

Low energy consumption

Easy to use in hard to reach area thanks to 120 cm long sensor cable.

Wireless standard	Z-Wave Plus
Frequency	868.40 MHz
Network range	up to 100 m line of sight
Operating temperature	-10°C ~ 50°C
Working humidity	maximum 95%
Battery	2 x AAA
Battery: run time	1 year, low power indication

### BATTERY INSTALLATION

When the device reports the low battery message, the user should replace the batteries to new ones. The device requires 2x AAA, 1.5V batteries.

To access the batteries, when the product is mounted, simply slide up the front cover.

### INSTALLATION

The Z-Wave button, located behind the cover, can add, remove, reset or associate the sensor to Z-Wave network

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

#### INCLUSION\*

Bring the Flood Sensor within direct range of your controller. Slide down the back cover to access Z-Wave button. Follow the instructions for your Z-Wave certified controller to enter inclusion mode. When prompted by the controller, press the Z-Wave button quickly 3 times in a row. You will notice a green LED flashing quickly 9 times and once it is included the flashing will stop indicating successful inclusion to your Z-Wave network. The sensor should appear on your controller's device list. If the first attempt is unsuccessful, please repeat the process following all steps carefully.

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

Please note: inclusion may vary depending on your gateway - please see gateway manual for details.

#### EXCLUSION

Bring the Flood Sensor within direct range of your controller. Slide down the back cover (or once mounted-slide up the front cover) to access Z-Wave button. Follow the instructions for your Z-Wave certified controller to enter exclusion mode. When prompted by the controller, press the Z-wave button quickly 3 times in a row. The green LED indicator will flash slowly 6 times indicating successful exclusion. The sensor should disappear from your controller's device list.

#### TROUBLESHOOTING TIPS

If you are unable to include the Flood Sensor to your controller, please try one of the following:

- Bring the Flood Sensor closer to your Z-Wave controller.
- Once in inclusion mode, press and release the Z-Wave button quickly 6-7 times to ensure the command has gone through.
- Put your controller into exclusion mode. Press the Z-Wave button quickly 3 times, and then try adding it to your network again.

#### ASSOCIATION

Have Z-Wave Controller enter association mode.

Pressing Z-Wave button three times within 1.5 seconds will enter association mode.

#### PHYSICAL INSTALLATION

##### Choosing a Suitable Location

- a. Choose an area prone to flooding.
- b. The probe should touch the surface.
- c. When choosing a suitable location remember that the sensor will only reach once the water reaches the probe.

### MOUNTING

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

To mount the device, after having chosen even surface, remove protective layer from the double coated tape and stick the sensor onto the surface. Make sure the probe has contact with the surface prone to flooding.

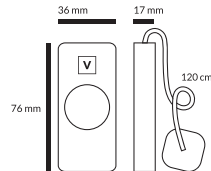
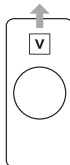
**Please note: After completing installation it's recommended to test sensor's operation by placing the probe onto water surface.**

#### Over the Air Firmware Update

The device supports the Z-Wave firmware update via OTA. Before starting the procedure, please remove the cover of the device. Otherwise the hardware check will fail. 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\_ZWAVEPLUS\_INFO  
COMMAND\_CLASS\_VERSION  
COMMAND\_CLASS\_MANUFACTURER\_SPECIFIC  
COMMAND\_CLASS\_DEVICE\_RESET\_LOCALLY  
COMMAND\_CLASS\_POWERLEVEL  
COMMAND\_CLASS\_BATTERY  
COMMAND\_CLASS\_ALARM  
COMMAND\_CLASS\_ASSOCIATION  
COMMAND\_CLASS\_ASSOCIATION\_GRP\_INFO  
COMMAND\_CLASS\_FIRMWARE\_UPDATE\_MD  
COMMAND\_CLASS\_WAKE\_UP  
COMMAND\_CLASS\_SENSOR\_BINARY  
COMMAND\_CLASS\_SENSOR\_ALARM



### 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.

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## 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: Flood Sensor

Regulatory model: FL-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 one, the retailer is legally obligated to take back your old appliance for disposal at least for free of charge.

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