

Monitors - 230V

concentration. To protect yourself and others from danger and to protect the device from damage, please read the safety information before using it.

This is a **Sensor** for **Europe**. To run this device please connect it to your mains power supply.

You can find further information in the device manual.

The MCOHome PM2.5 Monitor is an air quality controller which is compatible with Z-Wave technology, it is mainly used to monitor PM2.5

Step 1: Follow the wiring diagram to insert all wires into right terminals and tighten screws. Pay attention to the current direction of positive and negative, otherwise device will easily be burn!

Step 2: Separate panel and bottom case by removing the screw at the bottom of device, and mount the bottom case onto wall with two screws (M4*25mm). The hole pitch 60mm is for 86/60mm box, and 82mm is for American 120mm box.

Step 3: Mount the panel back by aligning its tabs and card slot onto the bottom case. Step 4: Tighten the fastening screw and the device is ready for normal work.

What is Z-Wave?

Z-Wave is the international wireless protocol for communication in the Smart Home. This device is suited for use in the region mentioned in the Quickstart section. (For more information about frequency regulations please refer to the frequency coverage overview at Sigma Designs Website).

Z-Wave ensures a reliable communication by reconfirming every message (two-way communication) and every mains powered node can act as a repeater for other nodes (meshed network) in case the

Prepare for Installation / Reset

Installation

Terminals

Cable

Location:

Please read the user manual before installing the product.

range.

receiver is not in direct wireless range of the transmitter. This device and every other certified Z-Wave device can be used together with any other certified Z-Wave device regardless of brand and origin as long as both are suited for the same frequency

this device provides the same or a higher level of security. Otherwise it will automatically turn into a lower level of security to maintain backward compatibility.

If a device supports secure communication it will communicate with other devices secure as long as

Product Description

amplify your home automation sstem with an additional device increasing your secrurity and comfort.

For more information about Z-Wave technology, devices, white papers etc. please refer to www.z-wave.info. The quality of the air contributes significantly to the room atmosphere and to the own welfare. With the quality monitor MCOEMH10-PM of MCO Home you can check the air quality inside of your home and get notified immediately if the quality is such bad that you and your loved ones is at risk. The air quality monitor detects PM2.5 (fine dust) in the air in real-time and alarms if it reaches defined limit values. In addition, it has integrated sensors for volatile organic compounds (VOC), temperature and humidity. The air quality monitor can control air ventilation systems directly via integrated outputs. The MCOEMH10-

PM convinces with high reliability and practicability and is able to work in any Z-Wave network with other Z-Wave certified devices. Therefor you can

In order to include (add) a Z-Wave device to a network it must be in factory default state. Please make sure to reset the device into factory default. You can do this by performing an Exclusion operation as described below in the manual. Every Z-Wave controller is able to perform this operation however it is

recommended to use the primary controller of the previous network to make sure the very device is excluded properly from this network. Safety Warning for Mains Powered Devices ATTENTION: only authorized technicians under consideration of the country-specific installation guidelines/norms may do works with mains power. Prior to

the assembly of the product, the voltage network has to be switched off and ensured against re-switching.

Device is suggested to be installed indoor, a place with around 1.5m height above the floor where represents the average PM2.5 concentration. It should be away from direct sunlight, any cover, or any heat source, to avoid false signal for detection. CAUTION: Cut off power supply at circuit breaker or fuse before installation to avoid fire, shock or death!

(P)

82mm

Tab

Card slot

Bottom

PM2.5 Monitor

Panel Fastening

Bottom

1. Device must be wall-mounted vertically. Do not lay it flat or upside down while working.

2. Do not mounted it in a wind gap, or cover its bottom, which may affect the detected data.

Step 1: Follow the wiring diagram to insert all wires into right terminals and tighten screws.

Pay attention to the current direction of positive and negative, otherwise device will easily be burn!

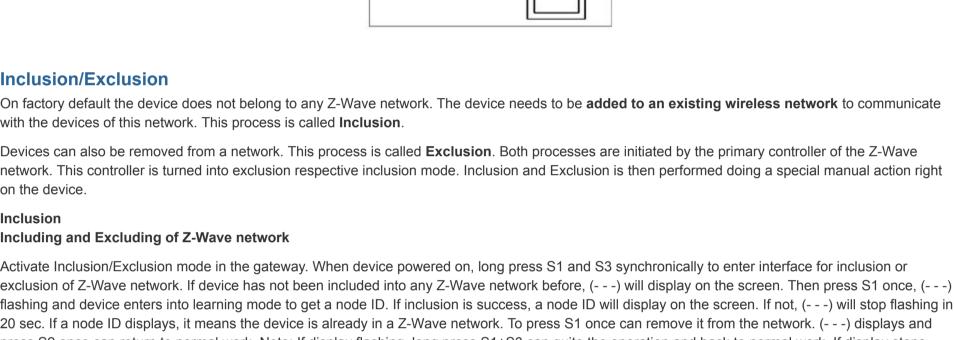
(M4*25mm). The hole pitch 60mm is for 86/60mm box, and 82mm is for American 120mm box.

Step 4: Tighten the fastening screw and the device is ready for normal work.

Step 2: Separate panel and bottom case by removing the screw at the bottom of device, and mount the bottom case onto wall with two screws

AC220V

Step 3: Mount the panel back by aligning its tabs and card slot onto the bottom case.



press S2 once can return to normal work. Note: If display flashing, long press S1+S3 can quite the operation and back to normal work. If display stops

on the device.

Inclusion

Exclusion

Inclusion/Exclusion

Including and Excluding of Z-Wave network

flashing, press S2 once can return to normal work.

No node ID

No node ID

PM2.5

Temperature

128.å

Week Local Time

PM2.5 level

Detected data

Temperature data

700

Node ID=007

Node ID=007

S1

S2

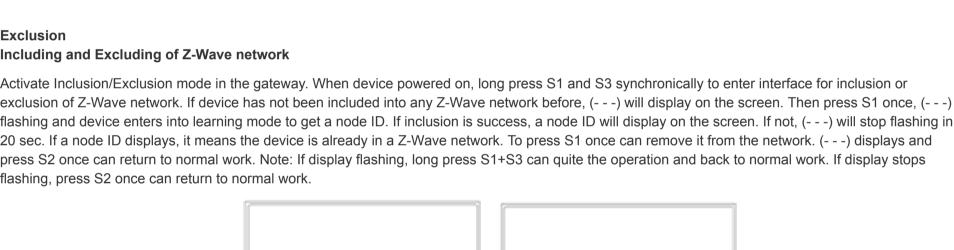
Keys

- PM2.5 unit

Humidity data

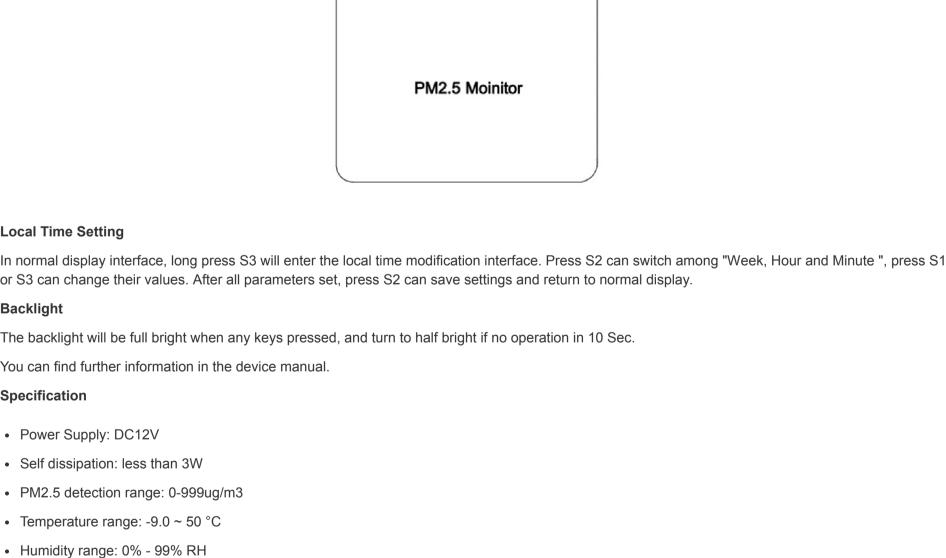
Description

Lifeline



Product Usage

Button and Display



10:00

°28:

• Humidity range: 0% - 99% RH Dimension: 85*135*33mm Hole Pitch:60mm or 82mm

Local Time Setting

Backlight

Specification

Power Supply: DC12V

· Self dissipation: less than 3W

Installation: wall-mounted (Vertical)

· Housing: Tempered glass+ PC Alloy

• Z-Wave Frequency: 868.42MHz (EU)

Quick trouble shooting

Association Groups:

Group Number

Dimensions

Hardware Platform

Z-Wave Product Id

Sensor Multilevel

wall controllers.

Manufacturer Specific

Basic

Supported Command Classes

Explanation of Z-Wave specific terms

Weight

EAN

3. Remove all dead devices from associations. Otherwise you will see severe delays. 4. Never use sleeping battery devices without a central controller. 5. Dont poll FLIRS devices. 6. Make sure to have enough mains powered device to benefit from the meshing

Association - one device controls an other device

Here are a few hints for network installation if things dont work as expected.

2. If inclusion still fails, check if both devices use the same frequency.

1. Make sure a device is in factory reset state before including. In doubt exclude before include.

5 Technical Data

association group will receive the same wireless command wireless command, typically a 'Basic Set' Command.

Maximum Nodes

86 x 135 x 33 mm

6928954202308

0x015f.0x0a01.0x3102

260 gr

ZM3102

IP 20 **IP Class** 230 V Voltage

Device Type Sensor Multilevel Sensor **Generic Device Class**

Specific Device Class Routing Multilevel Sensor **Firmware Version** 01.03 **Z-Wave Version** 03.43

Z-Wave devices control other Z-Wave devices. The relationship between one device controlling another device is called association. In order to control a different device, the controlling device needs to maintain a list of devices that will receive controlling commands. These lists are called association groups and they are always related to certain events (e.g. button pressed, sensor triggers, ...). In case the event happens all devices stored in the respective

Association Version

Primary Controller — is the central organizer of the network. It must be a controller. There can be only one primary controller in a Z-Wave network. **Inclusion** — is the process of adding new Z-Wave devices into a network. **Exclusion** — is the process of removing Z-Wave devices from the network.

Association — is a control relationship between a controlling device and a controlled device.

- **Wakeup Notification** is a special wireless message issued by a Z-Wave device to announces that is able to communicate. Node Information Frame — is a special wireless message issued by a Z-Wave device to announce its capabilities and functions.

Controller — is a Z-Wave device with capabilities to manage the network. Controllers are typically Gateways, Remote Controls or battery operated

Slave — is a Z-Wave device without capabilities to manage the network. Slaves can be sensors, actuators and even remote controls.

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MCO Home MCO Home PM2.5 Sensor Air Quality SKU: MCOEMH10-PM-230 Quickstart