

**Z-WAVE.ME  
WALL-MOUNTED  
MULTISENSOR**

ZME\_WB-MSW  
WB-MSW-ZWAVE

USER  
MANUAL

**wireboard**

**Z-WAVE>ME**

BUILDS THE SMART HOME

## PRODUCT DESCRIPTION

Z-Wave.Me Wall-mounted Multisensor it's a Z-Wave Plus™ and RS-485 operating multisensor that contains temperature, humidity, light, motion, noise level, CO<sup>2</sup> concentration and volatile organic compounds (VOC) sensors.

Built-in IR transceiver is designed to control the TV/AV and air conditioning.

The multisensor case is made of plastic and is not waterproof, designed for use in homes and offices. For wall mounting.

Supports operation via the Z-Wave™ radio protocol or via the two-wire RS-485 bus with Modbus RTU commands.

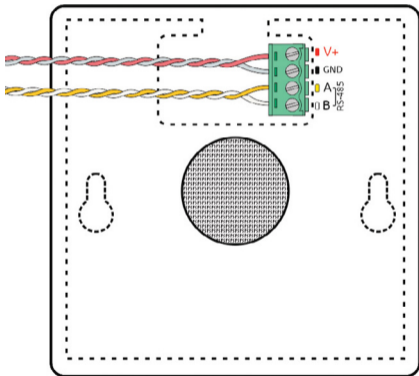
Wall-mounted Multisensor Manual full manual

<https://z-wave.me/manual/msw/>



## CONNECTION

The terminal block "V+ GND A B" with a 3.5 mm pitch is used to connect power and the RS-485 bus.



## WALL MOUNTING

For mounting with the possibility of easy removal use screws with a head diameter of about 7 mm, for permanent fixation use 9-10 mm. The device must be operated under recommended environmental conditions.

We recommend placing the multisensors on warm (internal) walls, at a height of 1-1.6 m from the floor level, taking into account possible drafts and sun exposure. When mounted on the ceiling in a living room, the temperature will be higher than in the room, and the humidity will be lower than in the room. The concentration of CO<sub>2</sub> does not depend on the height.

If the sensor is mounted on an external wall, then in the cold season the temperature sensor value will be several degrees lower than in the room. After installing the multisensor, the CO<sub>2</sub> sensor will be automatically calibrated in the new environment. Full calibration takes 7 days.

## Z-WAVE ADD / REMOVE PROCESS

### 1. Remove the top cover



Locate the latch tab on the underside of the case



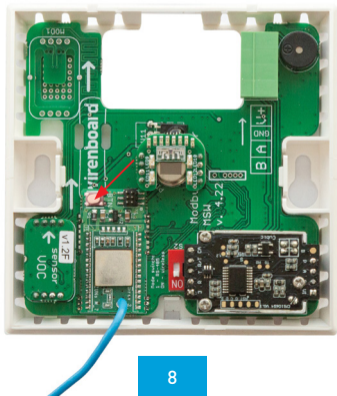
Press the latch until the ends with a screwdriver perpendicular to the side of the case



Lift the top cover

2. Z-Wave include button is located on the board. Switch the controller to the “Inclusion” or “Add” mode and press the button 3 times.

To exclude multisensor, switch the Z-Wave controller to the “Exclusion” or “Remove” mode and press Z-Wave button 3 times.



## TECHNICAL SPECIFICATIONS

Voltage	9 V – 28 V DC
Operating temperature	-40 °C ... +80 °C
Operating humidity	Up to 95%, without condensation of moisture
Dimensions	83x83x21 mm
Weight	90 g (with the box)
Z-Wave frequency	868.42 MHz
Z-Wave chip	ZGM130S

Measured value	Range	Error rate	Ready to work after power on
Concentration CO <sub>2</sub>	400 – 5000 ppm (parts per million)	100 ppm + 5% from the measured value	3 min, auto-calibration every 7 days
Temperature	-40 °C ... +80 °C	±0.3 °C (in range 0 – 70 °C) ±0.5 °C (in range -40 – 0 °C & 70 – 80 °C)	1 sec time constant (time to adopt ambient air temperature) ~4 min
Humidity	5 – 95 %	±3 %	1 sec
Noise level (sound pressure)	38 – 105 dB	±2 dB (±3 dB int v.4.8)	5 sec
Illumination	0,02 – 100 000 lx	±10 %	1 sec
Air quality – VOC (volatile organic compounds)	0 – 60000 ppb (parts per billion) for ethanol	±15 % (typical) ±40 % (max)	5 min (fully calibrated after 12 hours)
Motion sensor	Up to 8 m, 120 degree	—	8 sec
Transmitting IR commands	Up to 10 m (depends on the surrounding conditions)	—	1 sec

You can contact us using the form  
on the website <https://help.z-wave.me>  
or by writing to us directly by e-mail:  
[info@z-wave.me](mailto:info@z-wave.me)  
[support@z-wave.me](mailto:support@z-wave.me)



FULL MANUAL

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