MICA
Datasheet
V1.1. (05/05/2022)
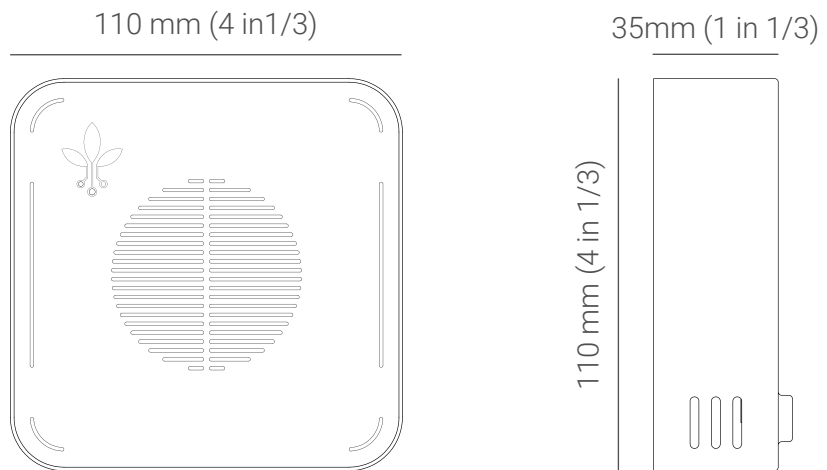
General

General characteristics

MICA

For indoor use only

Fast connector 230VAC 50Hz for wall installation

Finishes:
- Beech wood cover

- Anodised aluminium housing in light grey matte finish

Size and weight

110 mm (4 in1/3)

35mm (1 in 1/3)

110 mm (4 in 1/3)

Weight: 337 grams (11.89 oz)

Connectivity

"My inBiot" IoT platform.
Wi-fi 802.11 b/g/n/e/i (802.11n @ 2.4 GHz up to 150 Mbit/s)
RS485
Modbus
Touchpad
GSM/GPRS (Optional)

Sensors

Temperature

Measurement unit: ºC (ºF) / Range: 0 - 90 ºC (32 ºF - 194 ºF)
Accuracy: ± 0.5 ºC (± 0.89 ºF)

Humidity

Measurement unit: %RH / Rango: 0 - 100 %
Accuracy: ± 2 %

CO_2

Sensor: NDIR
Measurement unit: ppm / Rango: 0 - 5000 ppm
Accuracy: ±(50 + 5%) ppm
Calibration: Each 10 years*

Formaldehyde

Sensor: Electrochemical
Measurement unit: µg/m³ / Range: 0 - 6250 µg/m³
Accuracy: <200µg/m³: ±30µg/m³; >200µg/m³: ±20% of the measurement
Calibration: Each 5 years*

VOCs

Sensor: MOx
Measurement unit: ppb / Range: 0 - 60000 ppb
Accuracy: ± 15%
Calibration: Each 10 years*

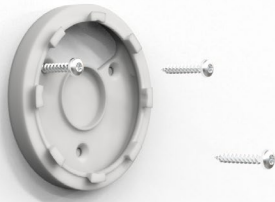## $PM_{2,5}$/PM_{10}/$PM_{1,0}$

Sensor: Particles laser
Measurement unit: µg/m³ / Range: 0 - 1000 µg/m³
Accuracy: <35µg/m³: ±5µg/m³; >35µg/m³: ±15% of the measurement
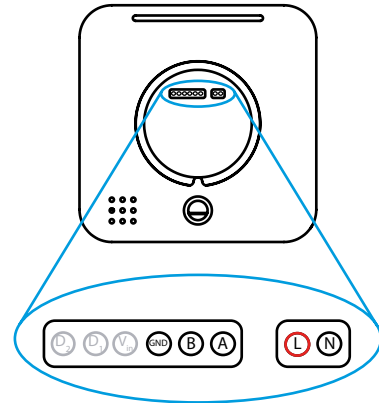Calibration: Each 4 years*

Rules of use

1. Do not blow directly to the device. Accuracy and lifetime of the sensors is not guaranteed when the device is outdoors.

2. Sensors calibrated by the factory. It guarantees measurement accuracy when the ventilation renewal is not exceeded. Maintenance is not needed during the lifetime for each sensor.

3. For any queries, contact our support team at support@inbiot.es

Installation

01
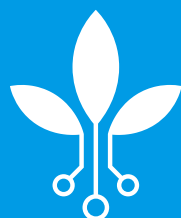

02

03

04

WALL MOUNTING
(More details in the installation manual)

1. Screw the wall support to the wall by drilling holes in the wall or using the holes of a universal flush-mounting box.

2. Connect the line and neutral cables and the communication cables depending on the model.

3. Rotate the MICA slightly to the right to attach it to the wall bracket.

4. Finally, rotate it to the left so that the MICA is well aligned and fixed.

Rules of use

RULES OF USE

1. To configurate your MICA, follow the steps indicated in our video tutorial.

2. Except for temperature and humidity, MICA´s sensors require preheating. That is why, after connecting the MICA, it will take some minutes to show measured values in My inBiot.

3. CO_2 sensor works under an auto-calibration algorithm each 24-48h. Therefore, please try to keep your MICA in a frequently ventilated space.

4. All sensors are calibrated by the sensor manufacturer itself, with its corresponding warranty. Maintenance is not needed during the lifetime for each sensor.

5. Do not blow directly to the device. Accuracy and lifetime of the sensors is not guaranteed when the device is outdoors.

6. Designed for indoor use only. Outdoor exposure may result in irreversible damages.

7. For any queries, contact our support team at support@inbiot.es

inBiot
Sense your building

www.inbiot.es
support@inbiot.es