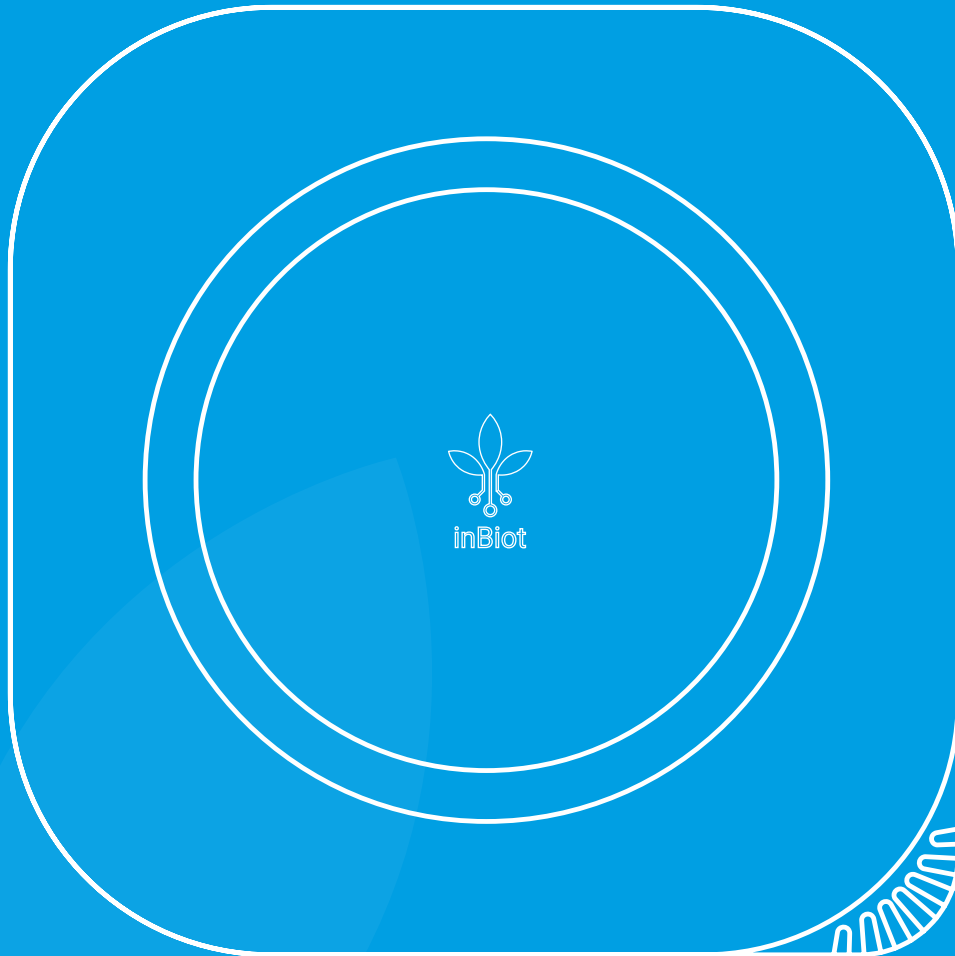


# MICA Lite 2023

---

## Datasheet



# General Information

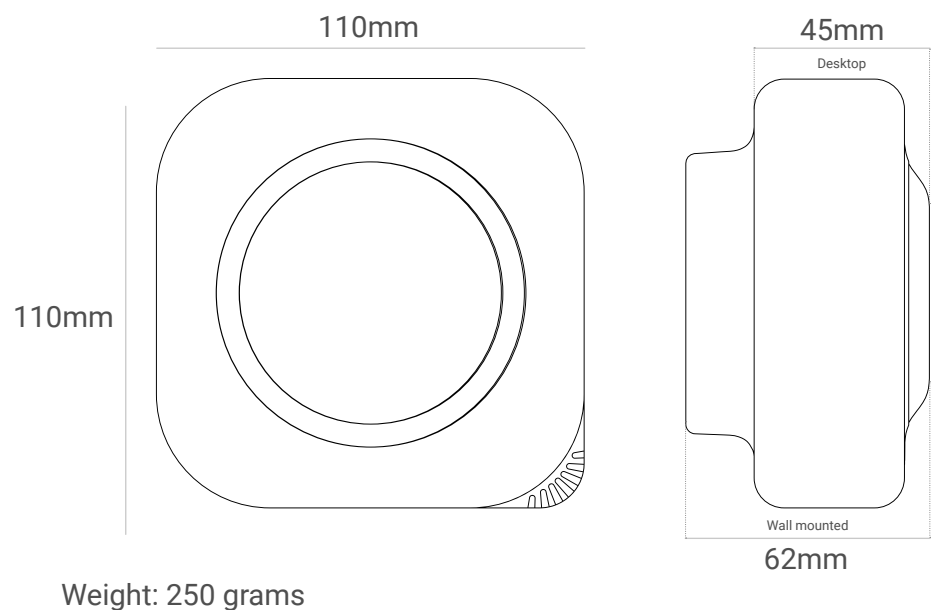
---

## Features

MICA 2023 version.  
For indoor use.  
Material: PC-ABS plastic with UV protection.  
Multifunction touch button.  
Status light LED ring.

---

## Dimensions and weight



## Power

USB type C connector (5V) (desktop use).  
Fast 110 - 240V AC 50 Hz 0.2A connector (wall installation).  
Fast 8 - 36V DC 2A 10W connector (wall installation).

---

## Connectivity

Wi-Fi (2.4 GHz up to 150 Mbit/s).  
GSM (2G SIM / Frequency range: 868 - 915 MHz) (wall installation).  
LoRaWAN (wall installation).

---

## Communication

Modbus RTU (wall installation).  
Modbus TCP (wall installation).

# Sensors

---

---

## Temperature

Sensor technology: CMOS / Unit: °C  
Range: -40 - 145 °C / Resolution: 0,1 °C  
Precision: ± 0,5 °C  
Lifespan<sup>1</sup>: >10 years

---

## Relative Humidity

Sensor technology: CMOS / Unit: %RH  
Range: 0 - 100 %RH / Resolution: 1 %RH  
Precision: ± 2 %RH  
Lifespan: >10 years

---

## CO<sub>2</sub>

Sensor technology: NDIR / Unit: ppm  
Range: 0 - 5.000 ppm / Resolution: 1ppm  
Precision: ±(30 + 3% m.v.) ppm  
Lifespan: >10 years

---

## PM<sub>2,5</sub>

Sensor technology: Particle laser / Unit: µg/m<sup>3</sup>  
Range: 0 - 1.000 µg/m<sup>3</sup> / Resolution: 1 µg/m<sup>3</sup>  
Precision: ±5% m.v. & 5 µg/m<sup>3</sup> (0-100 µg/m<sup>3</sup>), ±10% m.v. (101-1000 µg/m<sup>3</sup>)  
Lifespan: >10 years

---

[1] Lifespan is based on the average lifetime of the sensor, at which the specified accuracy is guaranteed. After the indicated years, it is recommended to replace the sensor to guarantee the accuracy of the measurement.

# Use notes

---

1. To set up your MICA, download the [mobile app](#). Make sure “Bluetooth” and “Location” are activated on your phone.

---

2. Except for temperature and humidity, MICA's sensors require preheating, so , after connecting the device, it will take several minutes to display accurate values in My inBiot.

---

3. The CO<sub>2</sub> sensor works under a self-calibration algorithm every 24h, 48h, 7 days or 15 days, therefore, try to keep it in spaces that are regularly ventilated.

---

4. Our sensors are carefully calibrated at the factory to ensure accurate measurement. This precision will be maintained as long as the recommended sensor renewal time is not exceeded. During the useful life of each sensor, no maintenance is required.

---

5. Do not blow directly into the device.

---

6. MICA is an indoor air quality monitor. The accuracy of the measurement and the useful life of the sensors in outdoor environments are not guaranteed. It is strongly advised not to expose the device to external conditions, as this could cause irreparable damage to the device.

---

7. For any questions, contact the support department through the form on the inBiot [support page](#).

---

8. It's recommended to keep devices at room temperature for at least 24 hours prior to installation to allow any condensation resulting from low temperatures during shipping/storage to evaporate.

---

9. MICA devices ventilate both from each side and from the air inlet located on the bottom. It is essential that neither side of the device is covered. Any change in airflow can affect the accuracy of the readings.

---

10. For Wi-Fi models: The device can only connect to 2.4GHz Wi-Fi networks. 5GHz Wi-Fi networks are not supported. Once installed, check that the configuration of your MICA has been successful and it is connected to the network. Make sure your IT department doesn't use a whitelist, access gateways or firewalls to allow devices on the network. If the devices require any of those to connect, you will need to provide the IT department with the MAC address of the device.



# inBiot

Sense your building

[www.inbiot.es](http://www.inbiot.es)

[support@inbiot.es](mailto:support@inbiot.es)

Copyright © inBiot Monitoring SL