

mill<sup>®</sup>

Sense Air

# User Manual



Mill Sense Air is a smart indoor air quality monitor developed by Mill in Norway. Connect the device to your WiFi network and get the status of your indoor climate directly in the Millheat app on your mobile phone.

Developed in Norway

## Mill Sense Air measures:



### Humidity

Too high levels of humidity can cause mold growth which is harmful for your health, as it can cause asthma and allergies. It is therefore crucial with good ventilation when taking a shower, drying of clothes and cooking.

- Max Accuracy: Relative humidity sensor  $\pm 2.0\%$  RH



### TVOC

Total Volatile Organic Compounds are airborne chemicals & toxins emitted from everyday items such as paint, furniture and cleaning products. They can be harmful at a high concentration, causing irritations in eyes, nose and throat. Depending on the level and length of exposure it can also cause more serious damage to liver and kidneys. Mill Sense Air measures the following VOC's.

- Alcohols
- Aldehydes
- Ketones
- Organic Acids
- Amines
- Aliphatic and aromatic hydrocarbons



### Temperature

A consistent temperature in all rooms are important for a healthy indoor climate. It is not recommended to turn the heat completely off in rooms you are not using for instance, as in combination with humidity this can cause mould growing. Temperature affects performance, comfort level and cold or flu symptoms. Connect Mill Sense Air to Mill WiFi heaters for more precise temperature control. This way the temperature will automatically adjust to your daily routines.

- Max Accuracy: Temperature sensor  $\pm 0.15^\circ\text{C}$



### eCO2

The eCO2 measurement is calculated from the VOC measurement. The calculation makes some assumptions about the percentage of VOCs that are due to CO2. If there are substantial concentrations of other VOCs present, the eCO2 reading would be higher than the actual CO2 level. Moderate to high levels of carbon dioxide can cause headaches and fatigue, and higher concentrations can produce nausea, dizziness, and vomiting. Loss of consciousness can occur at extremely high concentrations.

## Safety information and correct usage

Mill Sense Air is intended for indoor use only



Avoid direct exposure to sunlight.



Avoid exposure to direct heat sources.



Place away from vents and windows.

Do not disassemble. If the device is not working as specified or you are in doubt, contact your dealer or visit us at [millheat.com](https://millheat.com)

Use a dry cloth to clean Mill Sense Air.



## Before your start

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Make sure:



Your smart phone has a working internet connection



Disable any firewalls or VPN that might block the device from communicating with our server

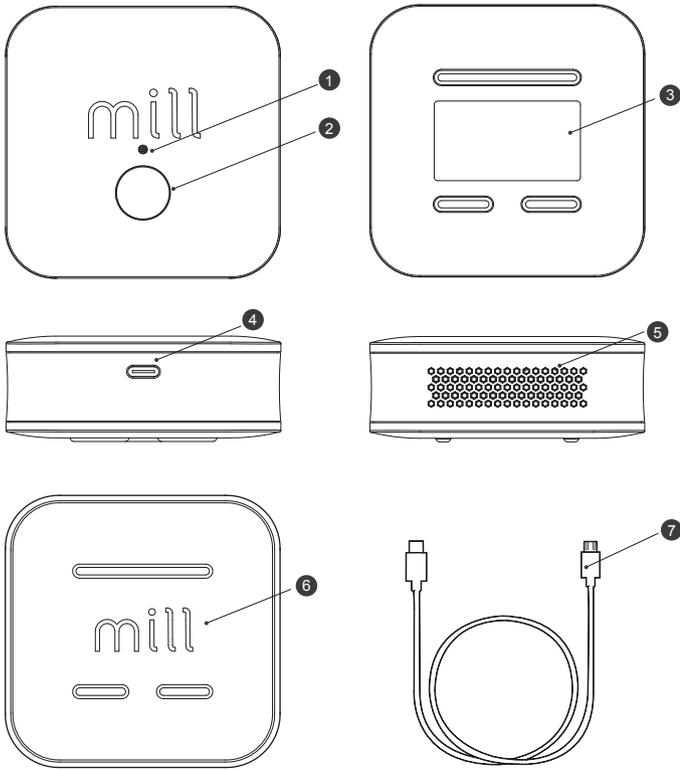


Bluetooth is enabled





## Product specifications



1. Indicator light
2. ON/OFF button
3. Backside with magnet
4. Charging port
5. Air vent
6. Wall-bracket with magnet
7. Charging cable USB type C

\*Please be aware that when the device is charging, the app will not show any sensor measurements. While the device is charging the sensor measurements will be affected by the heat generated from charging, and will therefore not be accurate. Once the device is fully charged, the sensor measurements will reappear in the app, and the charging cable can stay connected if you prefer

1

### Get started

Download the Millheat App and create an account



2

### Follow in-app instructions to connect the device\*

\*Sensors need 72 hours for full calibration and accuracy



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## Place the device on a flat surface or attach it to the wall using the provided wall-bracket with double sided tape

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- ✓ Avoid direct exposure to sunlight.
- ✓ Avoid exposure to direct heat sources.
- ✓ Place away from vents and windows.



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## Press the button on the Mill Sense Air to understand your air quality levels:

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**Cold**

It is cold in the room, temperature is below 18°C.



**Good**

Indoor air quality is good and the sensor values are within recommended level.



**Warning**

Indoor air quality is approaching poor/moderate levels. Take simple steps such as opening windows to bring fresh air inside.



**Danger**

One or more of the sensor values are above the recommended level. Actions should be taken to either increase ventilation, dehumidifying or humidifying, depending on what levels needs to be addressed.



## Fully Customizable

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Customize sensor trigger ranges when pressing the button (using the Millheat app)



Change how often Mill Sense Air uploads new sensor data (using the Millheat app)



## Troubleshooting

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**Q: How do I reset the device?**

**A:** Hold and press the button for 3 seconds, this will reset the connection and put device back to factory settings. This will also delete the device from the cloud and from the user's account. Device will then go to deep sleep.

**Q: Device is not showing accurate temperature or humidity?**

**A:** Make sure device is not near a heat/humidity source, Mill Sense Air temperature og humidity sensors are pre calibrated.

## Limited liability

Mill International AS shall not be liable for damages related to failure or loss of data arising from incorrect operations and handling of the device.

## Terms & conditions

[millheat.com/privacy-millheat app](https://millheat.com/privacy-millheat-app)

For other languages or additional questions go to [millheat.zendesk.com](https://millheat.zendesk.com)

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## Specifications

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1. Max transmitting power: <20 dBm
2. Frequency range: 2.4~2.5 GHz
3. Operational temperature: -5c to +50c
4. Storage temperature range: -10 to +125°C

## Do you have any questions, issues or want to give us feedback?

We are here to help!

Drop us an email: [appsupport@millheat.com](mailto:appsupport@millheat.com)

## Warranty

The warranty is valid for 2 years. The device will be repaired or replaced during this time should any malfunction occur. The warranty applies if the device is used according to these instructions and the customer can present a purchase receipt. If the device malfunctions in any way, please contact the store where it was purchased or the importer.

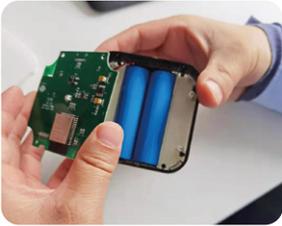
## Waste disposal

The symbol  indicates that this product is not to be disposed of together with household waste. This product must be delivered to a recycling service or container for electrical appliances and electronic equipment. This is done to avoid health risks and prevent harm to the environment. Local businesses (or the environmental station in your neighborhood) are required by law to accept and recycle such products, as a means of environmentally sound disposal.



## Efficient recycling process

If you want to contribute to a good and efficient recycling process, you may separate the battery from the product and dispose it at the dedicated container for lithium batteries at the environment station. Please follow the instructions below to remove the battery from the device:



1. Use a straight screw driver to disassemble the front shell
2. Use a cross screw driver to disassemble four screws
3. Remove the PCB by hand
4. Remove the battery and dispose the battery