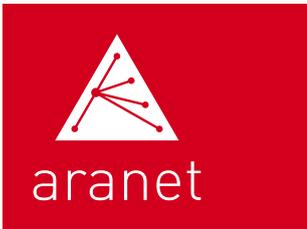


# Aranet4



**NEW**



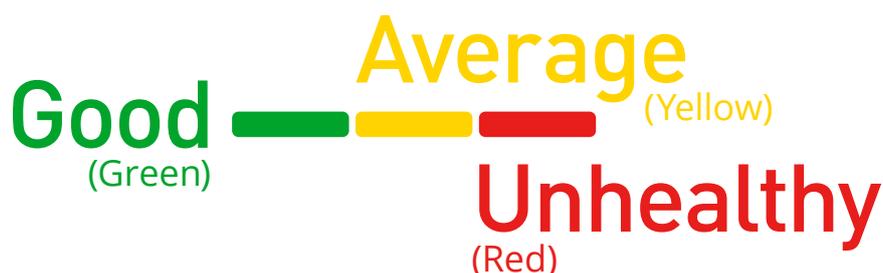
## USER MANUAL

Monitors air quality at your home, school, office or any other indoor private or public spaces.

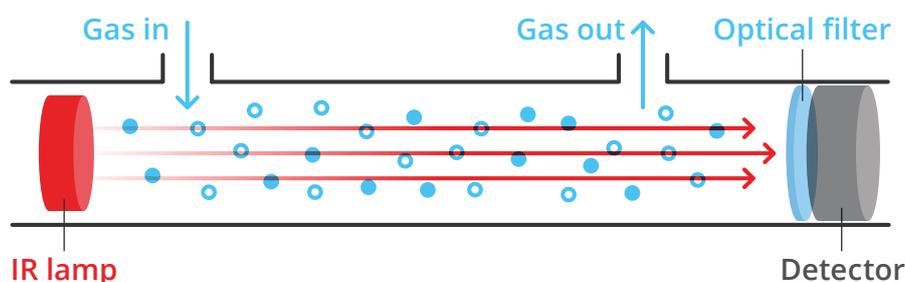
## About the Aranet4 device

The Aranet4 sensor is a battery powered CO<sub>2</sub> meter with additional measurements of temperature, relative humidity and atmospheric pressure. \* The device is suitable for monitoring the CO<sub>2</sub> level at home, in school, office or any other indoor environment.

Measurement data is displayed on a power-efficient e-ink screen allowing for long battery life. Additionally the device can provide visual and sound notifications in case of the CO<sub>2</sub> concentration becomes unhealthy. The high concentration level of 1400 ppm (parts per million) – level typically associated with complaints of drowsiness and poor air quality.



Aranet4 uses the nondispersive infrared (NDIR) sensor to measure the concentration of CO<sub>2</sub>. The CO<sub>2</sub> gas in the chamber absorbs infrared light and this absorption is measured by the sensor. The less light passes through – the higher the CO<sub>2</sub> concentration. The CO<sub>2</sub> gas absorbs only a specific wavelength of the light therefore an optical filter is used.



By using the Aranet4 app on your smart device it is possible to wirelessly access real-time data and up to one week of historical measurement data. The app also allows you to configure the Aranet4 device. The Aranet4 app supports connection of several Aranet4 sensors to monitor their parameters remotely from a single smart device.

Additionally up to 100 Aranet4 PRO devices can be connected to the Aranet PRO base station. Refer to the chapter **Using Aranet4 device with the Aranet PRO base station**.

\* Atmospheric pressure data measurements are available only on the Aranet4 app. More information in chapter **How to pair the Aranet4 to my smart device**.

## The Aranet4 sensor screen explained

1

Temperature of the air in Celsius or Fahrenheit. Refer to the switch positions of the Aranet4 in chapter **Switch positions explained**.

2

Relative humidity of the air (RH %).

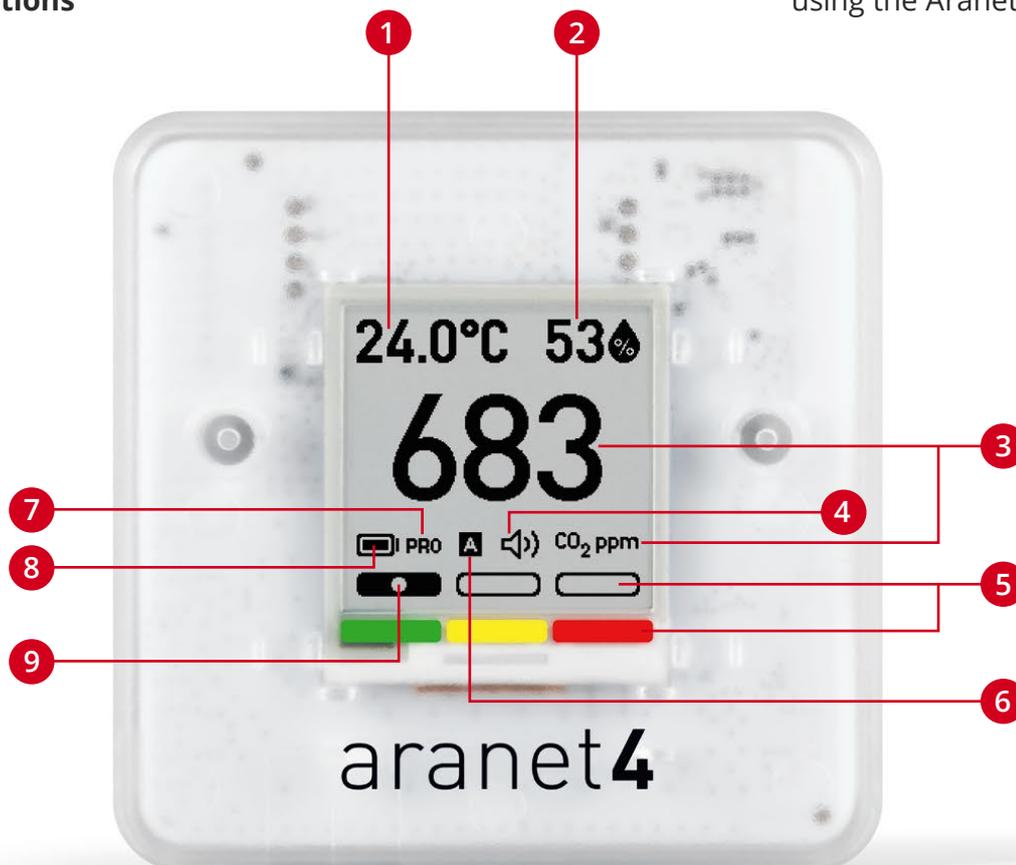


3

CO<sub>2</sub> concentration level in ppm (parts per million).

4

Alarm status. The  symbol is visible when alarm function is activated. The alarm settings can be adjusted using the Aranet4 app.



5

**CO<sub>2</sub> threshold level indication.**



**Green** represents normal CO<sub>2</sub> level (below 1000 ppm)



**Yellow** represents average CO<sub>2</sub> level (1000 to 1400 ppm)



**Red** represents high CO<sub>2</sub> level (above 1400 ppm)

6

CO<sub>2</sub> calibration mode indication. Symbol "A"  is displayed when calibration is set to automatic. No letter is displayed when calibration is set to manual mode.

8

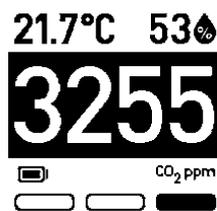
Battery level. 

7

The PRO version of the product (can be wirelessly connected to **Aranet PRO base station & Aranet Cloud**)

9

Adjustable  CO<sub>2</sub> thresholds that can be set using the Aranet4 app.



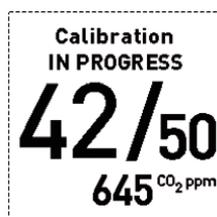
The inverted screen alerts when CO<sub>2</sub> concentration is too high and unhealthy.



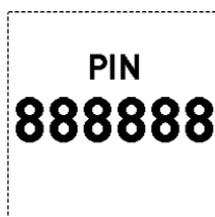
Do not remove batteries during firmware upgrade.



The battery is exhausted. Replace the batteries.



The calibration progress.



Pin code representation, when pairing device with smartphone through Aranet4 app via Bluetooth



Frost can damage the sensor. The recommended operating temperature of the sensor is 0° C to 50° C (32° F to 122° F).

## CO<sub>2</sub> calibration

The Aranet4 device is calibrated at the factory. However, the user can perform CO<sub>2</sub> calibration manually when needed. During the manual calibration the Aranet4 device must be exposed to fresh air (about 420 ppm of CO<sub>2</sub>) and the environment should be stable (not changing). Maintain a distance of at least 1 meter from the device during the calibration process.

To start the manual CO<sub>2</sub> calibration, change the position of the switch (see next chapter **Switch positions explained**) from **MANUAL** to **AUTO** and then back to **MANUAL** (maintain maximum of 1 second between each movement).

The calibration progress will be displayed on the screen of the device. In case of a calibration failure message, make sure that the environment requirements are met and repeat the process from the beginning.

Manual calibration can be done using the Aranet4 app as well.

In case of automatic calibration mode, the Aranet4 device needs to be exposed to a fresh air at around 420 ppm (for instance, outdoors or room with good air exchange) at least once a week.



Switch tool can be found in Aranet4 Quick Start Guide english version

## Switch positions explained

The Aranet4 device has four small configuration switches that allow the user to adjust the preferences of the device.

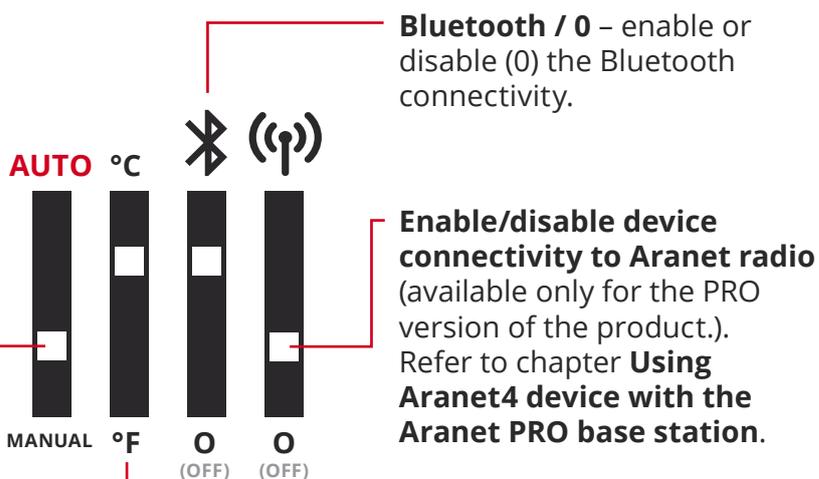
To access the configuration switches, open the cover of the battery compartment on the back of the device. While batteries remain inserted, adjust the switch position (up or down) using the pin tool that is supplied with the Aranet4 device (or any other suitable thin tool).

Switches can be adjusted while batteries are removed as well, **but note that if you remove the batteries, the measurement history will be erased from Aranet4 memory.** The changed preference setting will be enabled once the batteries are inserted back in.

The positions of the configuration switches have the following meaning:

**AUTO / MANUAL** – switch the CO<sub>2</sub> calibration mode to either manual (default position) or automatic mode.

Use **MANUAL** calibration mode in case you are not certain which mode to use.



**Bluetooth / O** – enable or disable (O) the Bluetooth connectivity.

**Enable/disable device connectivity to Aranet radio** (available only for the PRO version of the product.). Refer to chapter **Using Aranet4 device with the Aranet PRO base station.**

**Temperature units** – switch between either Celsius or Fahrenheit degrees.

## How to pair Aranet4 to my smart device using the Aranet4 app

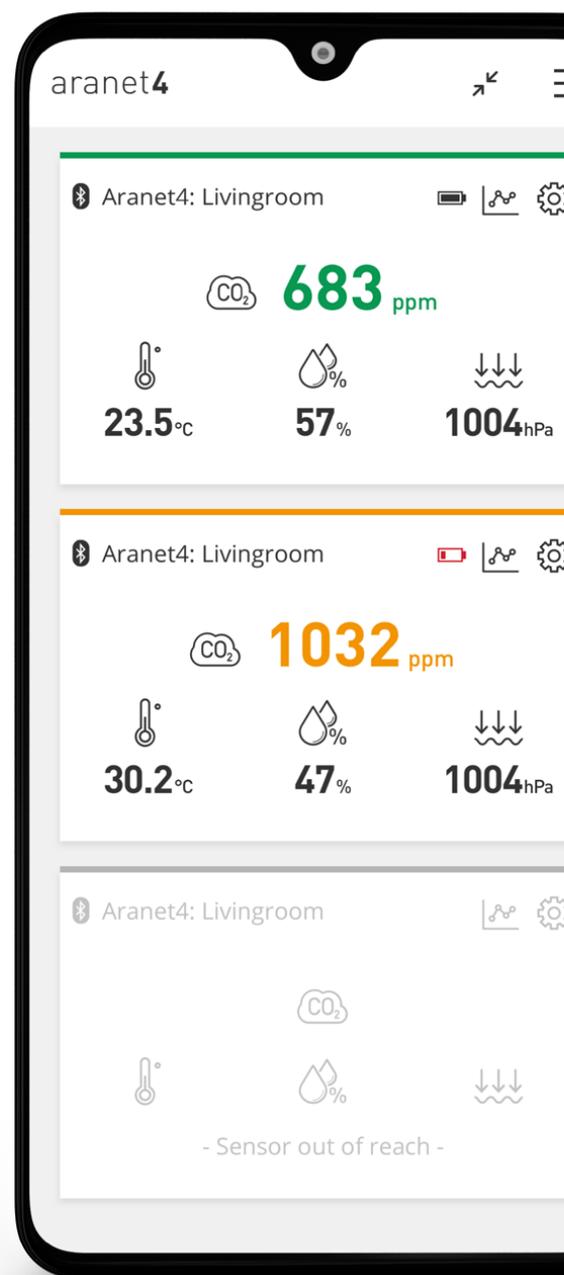
Connect your smartphone with the Aranet4 device via Bluetooth by using iOS or Android (access to device's location should be allowed due to general requirement for Bluetooth apps to work correctly on Android OS) app to:

- ➕ Access real-time measurement data overview
  - ➕ View up to seven day measurement history
  - ➕ View atmospheric pressure data
  - ➕ Set adjustable CO<sub>2</sub> thresholds
  - ➕ Set alarms and frequency of sensor readings
- ➕ Access all nearby Aranet4 devices
  - ➕ Do the CO<sub>2</sub> calibration of the device
  - ➕ Get access to the available firmware updates
  - ➕ Connect to smart devices and show the readings on larger TV screens

**To connect your Aranet4 device to your smart device**, make sure Bluetooth connectivity is enabled on your smart device and on your Aranet4 device, and **do the following steps**:

- 1 Launch the Aranet4 app and on the main page (My devices) add a new device by clicking on the (+) symbol.
- 2 Select your Aranet4 device from the list.
- 3 When prompted, confirm the start of pairing.
- 4 Type in the 6 digit passcode that is shown on the display of your Aranet4 device.

More answers about Aranet4 app in [forum.aranet.com](https://forum.aranet.com)



Your mobile phone must have either Android 6.0 or newer (for Android) or iOS 11.00 or newer (for iPhone) in order for you to be able to download the app.

## Using Aranet4 PRO device with the Aranet PRO base station

The Aranet PRO base station serves as a device for collecting, storing and maintaining data from all types of Aranet sensors, including Aranet4 PRO. Up to 100 sensors can be connected to a single Aranet PRO base station which has a capacity to store the measurement history up to 10 years.

To connect the Aranet4 PRO to the Aranet PRO base station, initiate the sensor pairing mode on the Aranet PRO base station and start the pairing on the Aranet4 device by changing the switch position from disable (0) to enable (radio symbol). Alternatively, while switch is in the enable position (radio symbol on screen is visible), remove and reinsert the batteries. Please note, that by removing the batteries, the measurement history will be erased from the Aranet4 memory.

Find out more about the Aranet PRO base station at [aranet.com](https://aranet.com) and follow the Aranet PRO User Manual on how to pair Aranet sensors to the Aranet PRO base station.

## Returns and warranty

In case of a return or a warranty claim, please contact your sales representative. For Terms and Conditions refer to [aranet4.com/terms-conditions](https://aranet4.com/terms-conditions).

## Frequently asked questions (FAQ)

If you can't find the answer that you are looking for in this manual, please take a look at the Aranet Forum at [forum.aranet.com](https://forum.aranet.com). Otherwise send us a message to [support@aranet.com](mailto:support@aranet.com).

## Additional links

More information about the product and documentation can be found <https://aranet.com/product/aranet4-sensor/>

User manual for older Aranet4 device version  
[https://dl.aranet.com/wp-content/uploads/2019/01/18095633/Aranet4\\_User\\_manual\\_and\\_datasheet.pdf](https://dl.aranet.com/wp-content/uploads/2019/01/18095633/Aranet4_User_manual_and_datasheet.pdf)



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