

# Jaspair v15

## User Guide

[letsair.org/jaspair](https://letsair.org/jaspair)



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# 1. PRESENTATION OF JASPAIR

Jaspair is a CO<sub>2</sub> monitor designed for schools. It measures the CO<sub>2</sub> level of a room and this allows us to determine the quality of indoor air renewal. The CO<sub>2</sub> level is measured in parts per million (ppm).

Jaspair is still a prototype under development. You can find more information of the website dedicated to Jaspair : [letsair.org/jaspair](https://letsair.org/jaspair).

Jaspair has a belly that lights up and changes color depending on the measured CO<sub>2</sub> level :



On the back of Jaspair, you will find: two stickers with a version number and a serial number (S/N) to identify the model you have in your hands. You will also find a screen and a small hole allowing you to activate a particular function: calibration.



On the left side of Jaspair, you'll find the USB-C port used to power it. Note that Jaspair does not have a battery.



## 2. POWER JASPAIR

Since Jaspair doesn't have an internal battery, you'll need to use either a USB charger or an external battery pack to power it. Both must be connected via the USB-C port available on Jaspair. Jaspair consumes less than 5W of electrical power.



USB Charger



External Battery

Since Jaspair doesn't have an internal battery, you'll need to use either a USB charger or an external battery pack to power it. Both must be connected via the USB-C port available on Jaspair. Jaspair consumes less than 5W of electrical power.

Upon startup, Jaspair will display several screens :



*Very first screen*



« *Initializing...* »



« *Please wait...* »

Once these screens are displayed, the measurement actually begins and a CO<sub>2</sub> level is shown. 493 ppm at that time.

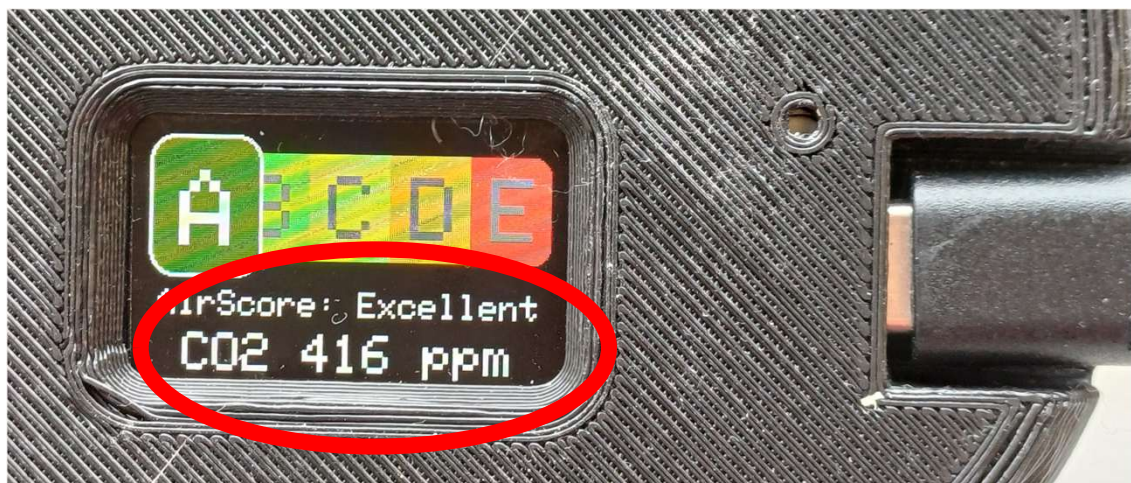


# 3. Calibrate jaspair

First and foremost, you need to calibrate or check the calibration of Jaspair: this is essential for Jaspair to give you accurate measurements.

To do this, you must install Jaspair outdoors, in the open air. It must be powered either by a USB charger if you have an outdoor electrical outlet or with an external battery.

Plug in Jaspair and leave it outside for at least 5 minutes. After 5 minutes, record the CO2 level measured by Jaspair.



First and foremost, you need to calibrate or check the calibration of Jaspair: this is essential for Jaspair to give you accurate measurements. To do this, we will measure the outdoor CO2 level, which averages 420 ppm – this value fluctuates depending on certain conditions, particularly pollution. It should be noted that climate change is causing this value to increase year after year.

Jaspair is set to measure an outdoor level of 400 ppm (we are working to make it closer to 420 ppm). As with all sensors, it makes this measurement with a certain margin of error: it can measure between 350 and 450 ppm (it therefore makes an error of +/- 50 ppm).

So, plug in Jaspair and leave it outside for at least 5 minutes. After 5 minutes, record the CO2 level measured by Jaspair.

If the reading is between 350 and 450 ppm, Jaspair is properly calibrated, you don't need to do anything. Here we read 416ppm, everything is fine.



So, plug in Jaspair and leave it outside for at least 5 minutes. After 5 minutes, record the CO2 level measured by Jaspair.

If the reading is between 350 and 450 ppm, Jaspair is properly calibrated, you don't need to do anything. Here we read 416ppm, everything is fine.

Here we are still outside and we are reading 661ppm: Jaspair has lost its calibration, we need to recalibrate it.



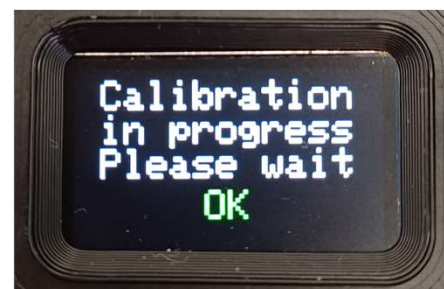
To start the calibration, use a paperclip or a small nail and press the button accessible via the small hole located to the right of the screen.



The calibration procedure then starts and will last a few moments. The message "Calibration in progress, please wait" appears on the screen :



After a few seconds, if the calibration was successful, "Ok" appears at the bottom of the screen.



If the message "Error" appears, you must attempt a new calibration until the word "Ok" appears.

Immediately after calibration, if you stay outside, the CO<sub>2</sub> value measured by Jaspair should be close to 400ppm.



We recommend regularly checking Jaspair's calibration by exposing it to fresh air outdoors. For example, once a month. If you use Jaspair frequently, especially if you plug and unplug it very often, check the calibration more often, once a week or more if necessary.

# 4. Use Jaspair

Based on the measured CO<sub>2</sub> level, Jaspair tells you if your indoor air renewal rate is: excellent, good, medium, poor or inadequate. This corresponds to the room's **air-score**. For more information on this score, you can visit the website: [letsair.org/airscore](https://letsair.org/airscore)

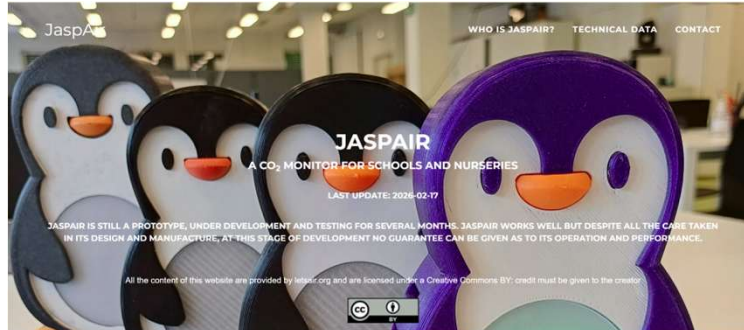


Jaspair's belly color corresponds to the measured air-score and the measured CO<sub>2</sub> level is given on the back.



## 4. For more information

[letsair.org/jaspair](https://letsair.org/jaspair)



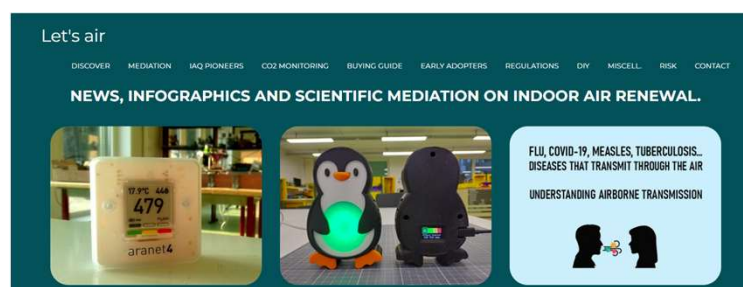
the website dedicated to Jaspair

[letsair.org/airscore](https://letsair.org/airscore)



the website dedicated to the air-score

[letsair.org](https://letsair.org)



News, infographics and scientific mediation on indoor air renewal.