



Timeair



Manual

Introduction

Proper ventilation - thanks to precise measurement and real time prediction

The timeair measures the CO₂ concentration of the room air and determines the time remaining until the next air exchange.

Proper ventilation is important in daycare centers and schools, meeting rooms and event spaces. Ventilating at CO₂-controlled intervals ensures fresh air more reliably than using fixed timings. The timeair simplifies safe ventilation measures. It displays the CO₂ value of the room air in real time and alerts you as soon as the limit value is reached.

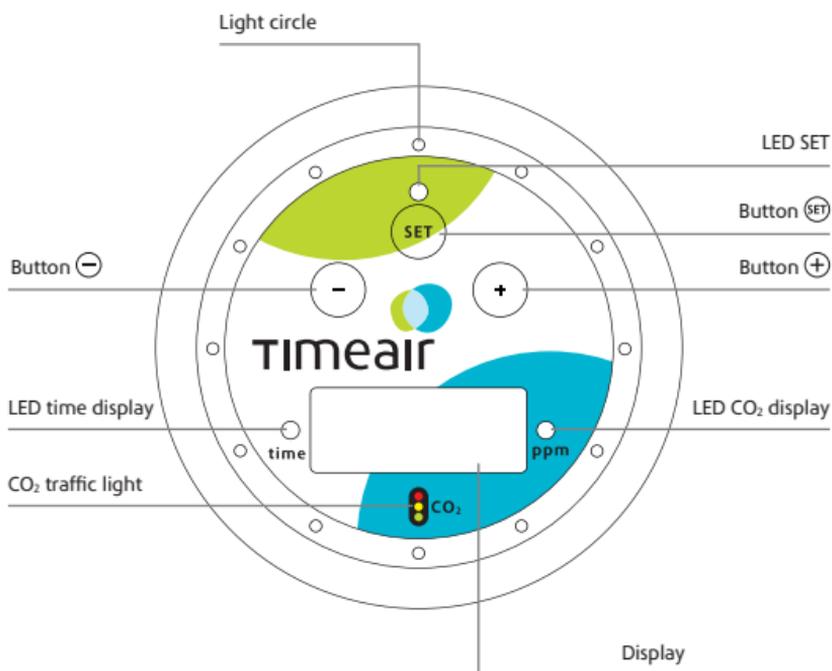
Unlike pure CO₂ sensors, however, the timeair not only indicates the current carbon dioxide content of the ambient air. It also displays the time remaining until a critical limit value is reached. The limit value can be individually configured in a range from 700 to 3,000 ppm (parts per million). If it is reached, the timeair alerts with visual and

optionally with acoustic signals.

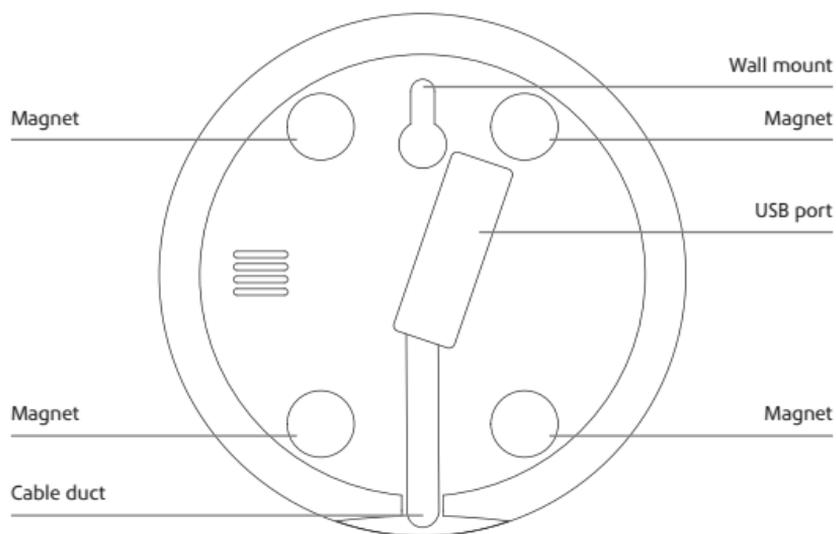


Getting to know the timeair

Front



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Quick guide

Step 1

Connection

- Connect the timeair to the mains - or to a power bank - using the USB cable and USB power adapter (USB port on the back of the timeair).
- Use a nail or hook to mount the timeair on the wall or simply attach it to any magnetic surface.

Step 2

Configuration

- Press **SET** for 2 sec. → the display shows **SET**, then: **LI** for CO₂ limit
- With **+** and **-** enter the desired limit value, Preset: 1,000 ppm (corresponds to the German RKI recommendation)
- Press **SET** shortly → the display shows: **LONE** for (optional) tone signal as soon as CO₂ limit is reached
- Press **+** to enable and **-** to disable the signal
- Wait approx. 6 sec. or press **SET** for 2 sec. to save your settings and exit configuration mode

Step 3

Operation

Display:

- Either CO₂ value in ppm (default) or remaining time in hours and minutes. Use (SET) to switch between display modes

Light circle:

- More than 60 min. until next ventilation
→ all 12 LEDs light up green
- Less than 60 min. until next ventilation
→ LEDs show remaining time in 5 min. steps:
11 LEDs light up → 55 min. left,
10 LEDs light up → 50 min. left, etc.
- Ventilation time is reached → Light circle lights up red, signal sounds if activated

timeair - proper ventilation

Any questions?

Monday to Friday from
8 till 17 o'clock
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www.timeair.de

Operating Manual

Start-up

Connect the USB cable to the timeair via the micro USB port on the back of the device. Connect the timeair to the mains using the supplied USB power supply. Alternatively you can also use any other USB 2.0 compliant port or a power bank for power. The timeair automatically starts measuring the ambient air. The required preheating time of the sensor unit is approx. 3 minutes.

Use a nail or hook to mount the timeair on the wall or simply attach it to any magnetic surface.



Operation

After the preheating time the timeair switches to standard operation. The display shows you the current CO₂ value. With a short tap on the SET button, you can switch from ppm to time display mode: The remaining time until the next ventilation appears.

If the remaining time is 60 minutes or more, all 12 green LEDs light up. If less than 60 minutes remain, then correspondingly fewer LEDs light up in the light circuit. If the CO₂ content in the room air then gradually increases and the remaining time until the next airing is correspondingly shorter, the LEDs switch off accordingly in an anticlockwise direction.

The period between 2 lit LEDs is 5 minutes each.

When the limit value is reached, the light circle lights up red. If the acoustic signal is activated, an additional warning signal sounds. It is time to ventilate!

With a short tap on the SET button you can deactivate the alarm. The display shows the CO₂ value. If the CO₂ concentration in the air now decreases due to the supply of fresh air, the remaining time will increase accordingly and the green LEDs will gradually switch on again.

If the room is used by relatively few people, the time forecast may deviate downwards in the first 15 minutes of a usage phase, because the timeair uses the increase values of the last 20 minutes to calculate the remaining time. In this way, values determined before a ventilation break can be included in the forecast. The limit value monitoring in ppm is effective at all times and independent of the number of persons and duration of use.

Menu/Configuration

To configure, first press and hold the SET button for two seconds. The display shows **SET** and the LED above the SET button lights up. After 2 seconds, the display automatically changes to the first menu item.

The menu offers the following setting options:

■ for CO₂ limit ● Factory preset: 1,000 ppm

Here you define the CO₂ value at which the timeair should prompt to ventilate the room. The CO₂ limit is preset to 1,000 ppm. This corresponds to the recommendation of the German RKI. With ⊕ and ⊖ you can enter your desired limit value (min. 700 ppm, max. 3,000 ppm).

■ for tone signal ● Factory preset: signal active

Here you specify whether, in addition to the light signal and the traffic light display, an acoustic signal should indicate that the CO₂ limit has been reached. Press ⊕, to activate the signal, and ⊖, to deactivate the signal.

SET for reset

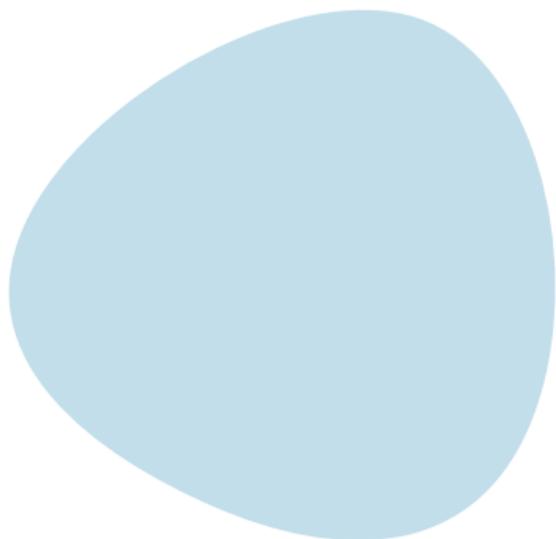
Here you can reset the timeair to the factory settings. Hold down the button  until the countdown has run down from 5 to 0.

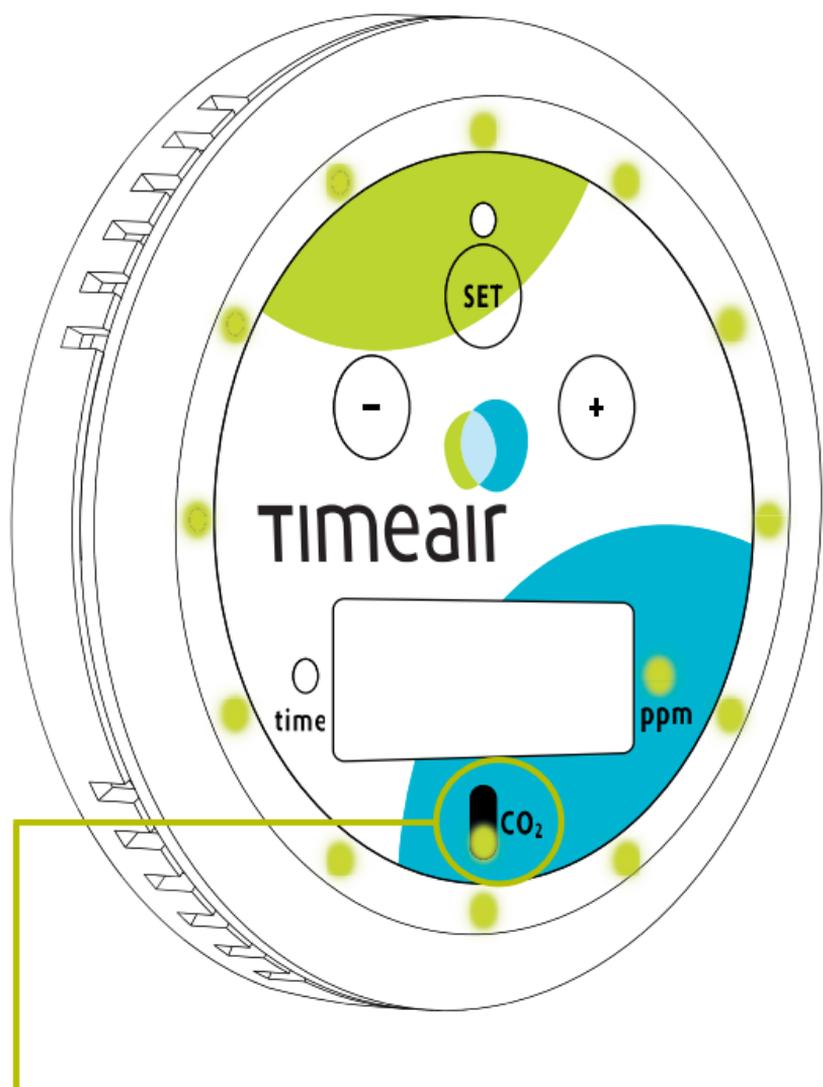
Automatic saving

After 6 seconds without any input, your settings are automatically saved. The setup mode is exited. The LED above the SET button is switched out.

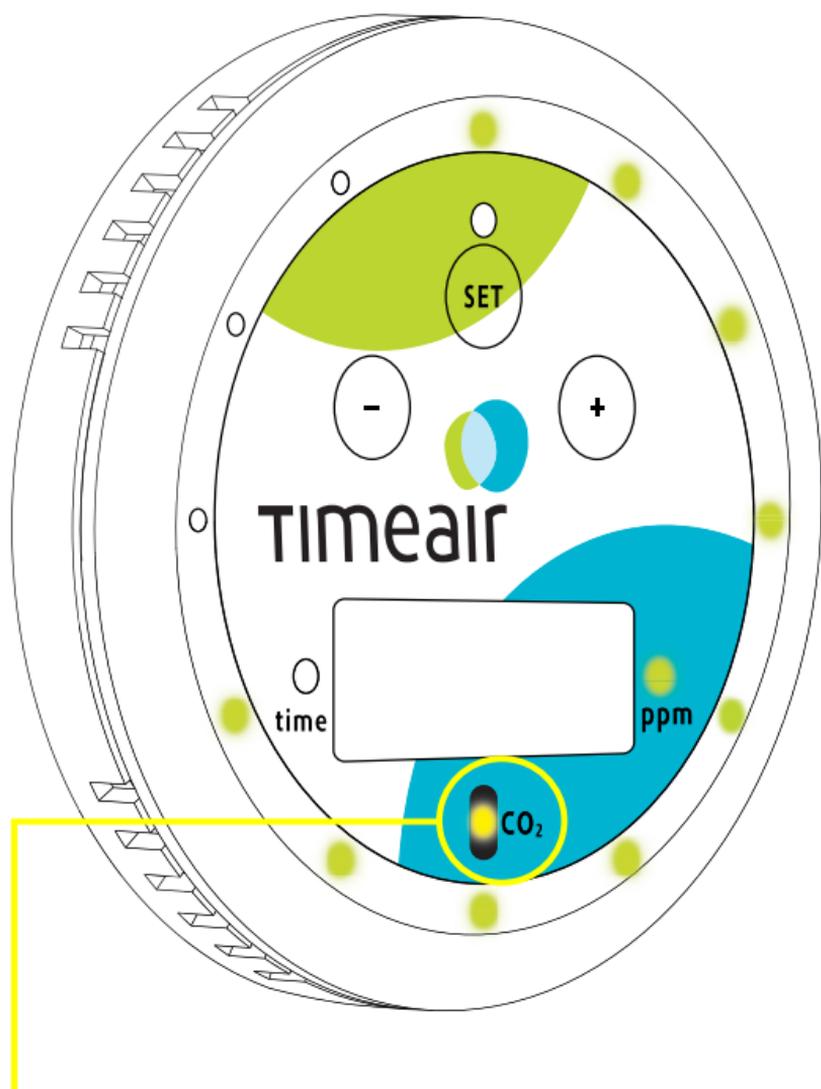
CO₂ Traffic light

In addition to the light circle, the timeair offers a traffic light display for the CO₂ value below the display. It indicates the following states:

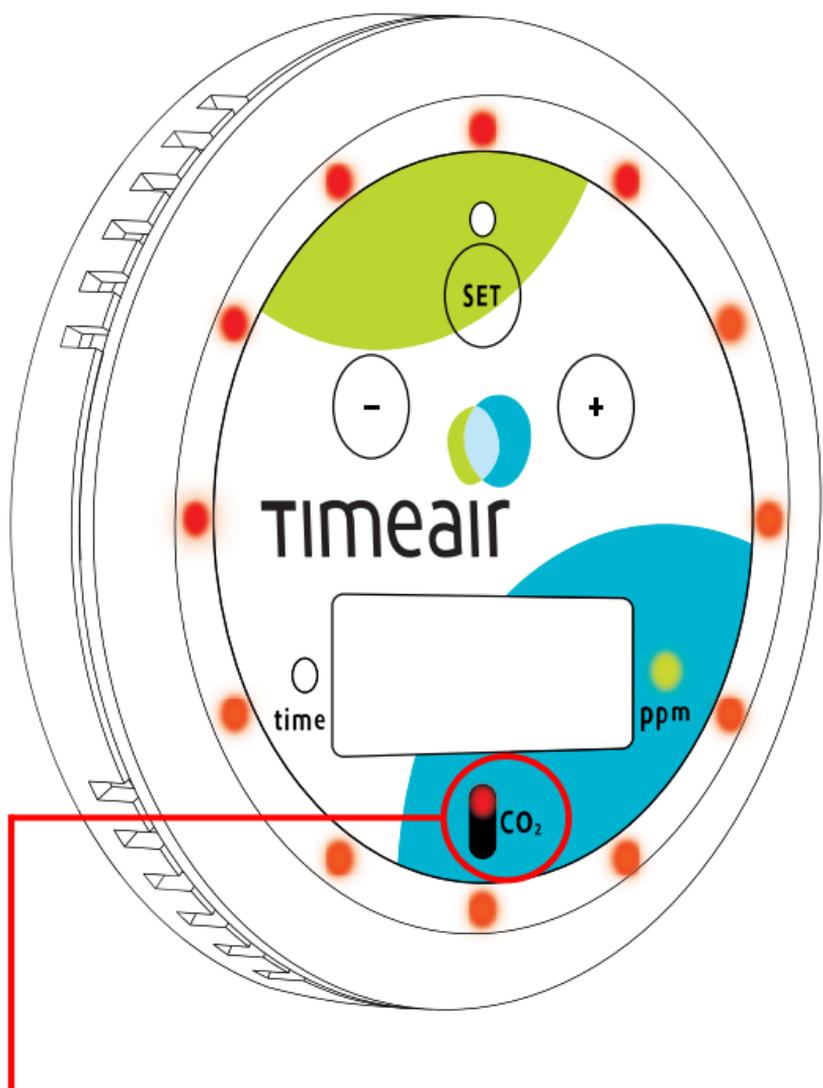




Green: Average value between 400 ppm CO₂ and individually set limit has not yet been reached.
(Example: With a limit of 1.000 ppm, the LED remains green until 700 ppm).



Yellow: Average value between 400 ppm CO₂ and individually set limit is exceeded.
(Example: With a limit of 1,000 ppm, the average value is 700 ppm).



Red: Limit is exceeded.

Recalibration

The timeair requires a calibrated „zero line“ representing the CO₂ level of „fresh outside air“ (approx. 400 ppm) for correct processing of the sensor data.

In order to obtain permanently good measured values, you should carry out a recalibration approx. every 6 months (the timeair is already calibrated ex works).

We have summarized the recalibration procedure for you in a short YouTube video. You can access this easily via the following QR code:



The calibration normally takes about 30 minutes. During this time, the timeair must be continuously switched on and surrounded by „fresh air“. It is best to position the device directly next to an open window or in a rain-protected outdoor area and keep a distance of at least 3 m during calibration.

To start the calibration, you must open the menu (press and hold the SET key), navigate to the „rCAL“ menu item (press the SET key repeatedly) and press and hold the „-“ key to confirm until a 5-second countdown has elapsed.

During the calibration phase, the entire LED ring flashes red. Gradually added green LEDs signal the temporal progress. After successful calibration, the timeair automatically switches to normal operation.

Please note: If the calibration is disturbed (i. e. not constantly surrounded by „fresh air“), it automatically starts over and might then take longer than 30 minutes.



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