QUICK-START GUIDE

Condair Cube
Air Quality Measuring Device:
- – CO_2
- – Relative Humidity
- – Temperature

Made in Switzerland

≋condair

Thank you for purchasing the Condair Cube.

The Condair Cube uses a higly sensitive sensor to detect CO_2, relative humidity (% RH) and temperature in the ambient environment.

Before working with the measuring device, please read this Quick-Start Guide carefully!
- – The Condair Cube is intended for indoor use only. Any other use is considered as non-intended use and may cause the Condair Cube to display deviating measuring results. Any use not in accordance with the intended purpose will void the warranty.
- – By following the Quick-Start Guide, you will also avoid damaging the device and running the risk of your legal rights to claim for defects due to misuse. We accept no liability for damage caused by non-observance of this Quick-Start Guide.
- – We are not liable for incorrect measured values and consequences that may result from misuse.
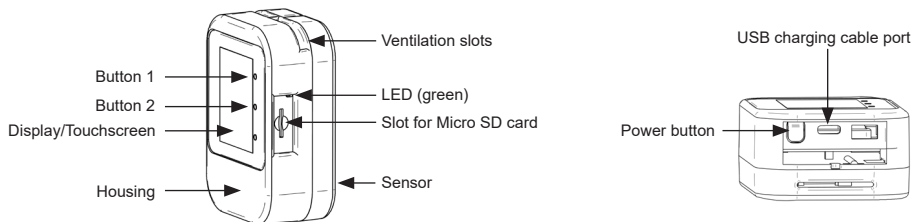
For your safety
- – Do not use the product in any other way than described in these instructions.
- – Unauthorized repair, modification or alteration of the device is not permitted.

Important notes on product safety
- – Do not expose the device to extreme temperatures, humidity, vibrations and shocks. Clean the device with a soft, slightly damp cloth. Do not use scouring agents or solvents!

PRODUCT OVERVIEW

Components: 1 measuring device and USB charging cable. Optional: Micro SD card (not supplied)

Button 1
Button 2
Display/Touchscreen
Housing
Ventilation slots
LED (green)
Slot for Micro SD card
Sensor
USB charging cable port
Power button

STARTING THE CONDAIR CUBE

1. **Switch on the Condair Cube:** To do this, press the **power button inside the cavity on the lower, left side of the cube** (see product overview). Fully charge the device.
   Note: If the Condair Cube is plugged in via the USB cable, it switches on automatically.
2. **Place the Condair Cube upright in the room**, where you want to check the room air, so that the sensor, on the back of the Cube, is free from obstruction and the excess heat can escape through the ventilation slots.

3. The Condair Cube displays the **exact values of CO₂ and relative humidity after 3 minutes**. However, it needs an **adjustment time of approx. 20 minutes** until all values are displayed accurately, especially the temperature.

4. **Calibration:** For accurate CO₂ measurements, the Condair Cube must be calibrated during initial start-up, when traveling (altitude differences), and with weekly regularity.
   Two different calibration options are available:

Manual Calibration

Place the sensor outdoors, for example outside the window in fresh air.
Menu → Settings → Calibration CO₂ → Press "Start"
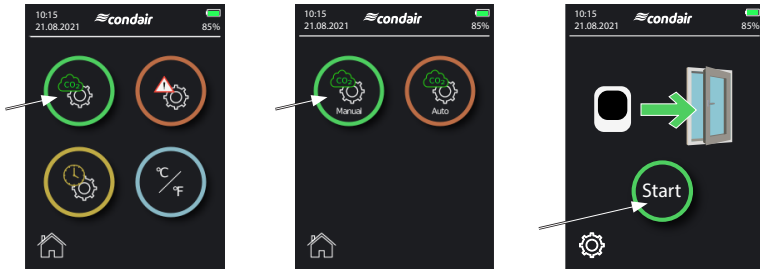
After approx. 6 minutes – displayed graphically with a bar graph and percentage – the calibration is completed; the cube automatically switches to the main page.
Important! Check the CO₂ value. If it is within the range of 400 +/-25 ppm, the calibration was successful. If the value is above or below this, repeat the calibration!

Auto calibration

This function can be activated via the settings. It's important here that:

– **the sensor is in operation as permanently as possible** and
– **it is exposed to fresh outside air for approx. 10 minutes at least once a week.**

During auto-calibration, the lowest measured value over one week is taken as the reference value and recalibrated to 400 ppm.
Menu → Settings → Calibration CO₂ → Auto calibration → enable or disable

If the Condair Cube is not operated consistently, it is recommended to deactivate the auto calibration and to perform a manual calibration when using the Condair Cube.

MAIN SCREEN VIEW
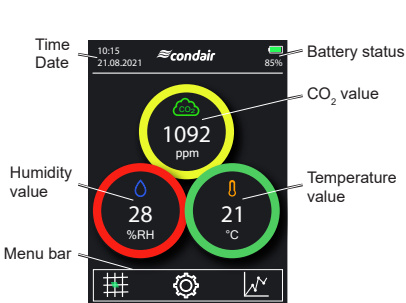
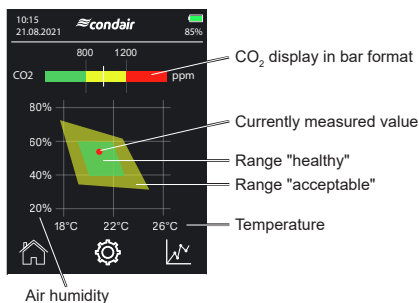|	
Time/Date:	Current data
Battery status:	State of charge: 0-100 %
CO₂ value:	Current CO₂ content in the air, in ppm (Parts per Million).
Temperature value:	Current temperature in °C / °F
Humidity value:	Current relative humidity of the ambient air, in % RH
Menu bar:	Access to submenus. Health chart, settings, past readings
Button 1:	Turn on screen, increase brightness
Button 2:	Turn off screen, reduce brightness
LED:	When the display is darkened via button 2, the LED lights up green as an operating indicator.

TRAFFIC LIGHT DISPLAY OF THE MEASURED VALUES

The circles around the values show the current state of the value in the manner of a traffic light system.

Green → Everything in the optimal range   **Yellow** → Caution: Need for action   **Red** → Critical readings

	CO₂ content of the ambient air	Relative humidity	Temperature
Circle green: OPTIMAL VALUES	≤ 800 ppm	≥ 40 to ≤ 60 % RH	≥ 20 to < 23.5 °C *(≥ 68 to < 74.5 °F)*
Circle yellow: CAUTION!	> 800 bis ≤ 1'200 ppm	≥ 30 to < 40 % RH or > 60 to < 70 % RH	≥ 17 to < 20 °C *(≥ 62.5 to < 68 °F)* or ≥ 23.5 to < 27 °C *(≥ 74.5 to < 80.5 °F)*
Circle red: CRITICAL VALUES	> 1'200 ppm	< 30 or ≥ 70 % RH	< 17 or ≥ 27 °C *(< 62.5 or ≥ 80.5 °F)*

APPLICATION OVERVIEWS

▦ View health chart

- CO₂ display in bar format
- Currently measured value
- Range "healthy"
- Range "acceptable"
- Temperature
- Air humidity

⤳ View historical readings

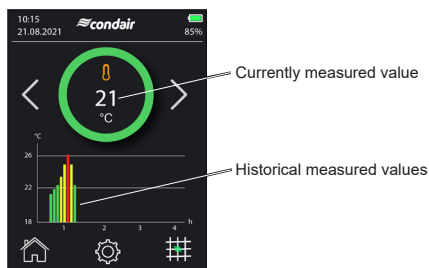- Currently measured value
- Historical measured values

The ranges *"healthy"* – green diamond – "acceptable" and "critical" are shown in the health chart.

Air quality in the "healthy" range provides **increased health protection** and is perceived as pleasant.

Target: The current measured value (red dot) of the room air is in the inner green diamond and thus in the "healthy" range.

If the CO₂ content in the bar view above is outside the green range, the room should be ventilated.

Display of the 4-hour history of the values - here, for example, the temperature readings.

For every 10 minutes of measurement, the measured average value is displayed as a bar and colored according to the described traffic light system.

If the bar is yellow or red, the temperature was too low or too high on average during the last 10 minutes considering the health chart.

Use the arrow keys on the side of the circle to access the other measured values: CO₂ and % RH.

SETTINGS

The 3 icons lead to the submenus:

- Alarm settings
- Calibration CO_2
- Setting °C / °F
- Time and date settings

Tap once on the respective icon to enter the submenus.

The internal RTC (RealTimeClock) ensures that the time and date continue to run for approx. 2 months even when the cube is switched off and not charged.

Set the desired time/date using the up/down arrow keys:
hh:mm:ss (Hours:Minutes:Seconds) resp.
dd:mm:yy (Day:Month:Year) and "Ok" to confirm

Alarm setting
Calibration CO_2
Setting °C / °F
Time and data settings

The OPERATING INSTRUCTIONS of the Condair Cube can be found in our website, at: https://www.condair.ch/privatkunde/condair-cube

Here you can find more information about the additional options and capabilities of the Condair Cube:

- **SD card** as memory card for measured values and further processing of the data
- **Power bank – any power bank with 5 V USB connection**
- **Display on large screen** and the file executable for it
- **Disposal/Recycling**
- **Product specification**
- **Tips and further recommendations**

SGS
CH94/0002.00

FSC
Outer packaging and instructions made from FSC™ certified materials

CE

Condair Group AG hereby declares that the Condair Cube unit is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU and ROHS 2011/65/EC. The original EU Declaration of Conformity can be found at https://www.condair.ch/privatkunde/condair-cube/

Liability Notice

Condair Group AG does not accept any liability due to incorrect installation or operation of the equipment or due to the use of parts/components/equipment that are not authorised by Condair Group AG.

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