

CO₂ Ampel®

Manual



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Commissioning of the CO₂ Ampel®

The CO₂ Ampel® has the option of two operating variants: simple local operation and extended cloud-based operation.

Local offline operations

In addition to the CO₂ Ampel®, you only need a 230V outlet for local operation. Insert the power plug into the outlet. The CO₂ Ampel® will light up once, play the signal tone and take in the surrounding air. The CO₂ concentration is measured and the measured value is displayed in colour according to the current air quality. The coloured display is based on the preset threshold values (see sticker CO₂ Ampel® / packaging). With the help of the app, the threshold values can be adjusted later (see chapter "Mobile application"). No internet connection of the CO₂ Ampel® is necessary for this. If local operations are used, measured data are not saved.

Function test

For the function test, please blow frequently into the side openings of the device at a small distance. If there is sufficient CO₂ exhalation, the CO₂ Ampel® will then show the exceeded threshold value in colour. After good ventilation, the display of the CO₂ Ampel changes back to green.

Cloud-Operation

For cloud-based operation you need a WiFi router, a stable WiFi connection and the "CO₂ Ampel®" app from the Google Play Store (Android) or App Store (Apple / iOS) (see chapter "Mobile Application")

The cloud-based operation offers the following advantages:

- Adjustment of threshold values in the event of legal changes or personal preferences
- Switching the acoustic signal on / off (when threshold values are exceeded)
- Documentation of measurement data by uploading it to the provided cloud
- Monthly report including visualization

- Grouping of several CO₂ Ampel® into individual system units (e.g. "ground floor", "School A", "Company B", "open-plan office", etc.)
- Receive push notifications (app usage) when threshold values are exceeded or in case of device failure
- Connect the CO₂ Ampel® with other devices such as room ventilation and ventilation devices (e.g. HEPA filter) or electric window openers

Mobile Application / App use

Please make sure that you have the latest version of the CO₂ Ampel® app installed on your smartphone. Proceed in the same way as when installing the CO₂ Ampel® app (see chapter: "Installation of the CO₂ Ampel® app"). If a more recent version is available, the "Update" button appears in the Google Play Store or App Store.

Local offline device operation

A CO₂ Ampel® App Account is not required to operate the device locally.

1. Installation of the CO₂ Ampel®-App



Search in the Apple Store (iOS) or in the Google Play Store (Android) for "CO₂ Ampel®" and download the app via "Download". **Note:** The smartphone must be connected to the Internet and must not be connected to the WiFi of the CO₂ Ampel®.

2. Connecting to the WiFi of the CO₂ Ampel®



Select the WiFi of your CO₂ Ampel® in the WiFi settings of your smartphone (Settings -> WiFi) and connect to it. [The name and password of your CO₂ Ampel® can be found on the nameplate (back / packaging), e.g. "CO₂_Ampel_F7D8" **see illustration.**] If you receive the message "Your smartphone is not connected to the Internet", **ignore**

it. **Note:** You are now connected to the WiFi of your CO₂ Ampel® and no longer to the Internet.

Local operation

Open your CO₂ Ampel® app and select "local operation". If you are still logged in to your CO₂ Ampel® app account, please log out again or select "local operation" under settings. Auswahl: Live-View

To display the current measured value of your CO₂ Ampel®, select "Live View".

2.1. Select: Threshold configuration

In order to change the preset threshold values (these can be found on the nameplate on the back / packaging), select "Threshold configuration". Here you can select variable threshold values for green / yellow and yellow / red.

2.2. Select: WiFi Integration

This selection is required if you want to operate your CO₂ Ampel® in cloud-based operation (see chapter "Operating mode B: Cloud connection") **Please disconnect the WiFi connection between your smartphone and CO₂ Ampel® after successful configuration.**

Cloud-connection of the CO₂ Ampel®

In addition to the CO₂ Ampel®, you need the access data of the respective WiFi into which you want to integrate the CO₂ Ampel®.

1. Install the CO₂ Ampel®-App



Search in the Apple Store (iOS) or in the Google Play Store (Android) for "CO₂ Ampel®" and download the App via "Download". **Information:** The smartphone must be connected to the Internet (WiFi / mobile data) and must not be connected to the WiFi of the CO₂ Ampel®.

2. Create an account

Please open your CO₂ Ampel® app and create an account under "Create account". To do this, enter your email address, choose a password and accept the data protection agreement.

Information: To do this, your smartphone must be connected to the Internet (WiFi / mobile data).

2.1. Accept the data protection agreement

A data protection agreement has been sent to your registered email address. Please read it through and confirm it.

3. Use of the CO₂ Ampel®-App

3.1. Adding a new device

- 3.1.1. To add a new device, select "Add" for **iOS** in the lower control bar. For **Android**, select "Add" under Settings.
- 3.1.2. Enter the CO₂ Ampel® code manually or scan the QR code. **Information:** To do this, the camera for the CO₂ traffic light app must be enabled in the CO₂ traffic light app settings.
- 3.1.3. Give your CO₂ Ampel® an individual name.
- 3.1.4. Select an existing group or create a new one (**mandatory**)
- 3.1.5. Save your entry. The CO₂ Ampel® will now appear under "Devices"

3.2. WiFi-Integration

In order for your CO₂ Ampel® to communicate with the provided cloud (e.g. enables the receipt of push messages), it must be connected to your WiFi (private or institutional).

3.2.1. Connecting to the CO₂ Ampel®'s WiFi



In the WiFi settings of your smartphone (Settings -> WiFi) select the WiFi of your CO₂ Ampel and connect to it. (The name and password of your CO₂ Ampel can be found on the type plate (back / packaging), e.g. "CO₂_Ampel_F7D8" **see figure**). If you receive the message "Your smartphone is not connected to the Internet", **ignore it**.

Note: You are now connected to the CO₂ Ampel WiFi and no longer to the Internet.

- 3.2.2. Open your CO₂ Ampel® app
- 3.2.3. Select „lokalen Operation“
- 3.2.4. Select „WiFi integration“
- 3.2.5. Select the WiFi network, in which you wish to integrate your CO₂ Ampel® into.
- 3.2.6. Enter the WiFi password (*you can find the password e.g. on the back of the router*).
- 3.2.7. Disconnect the WiFi connection between your smartphone and your CO₂ Ampel®.

Note: In the specific WiFi settings of the CO₂ Ampel® "Connect automatically: Off" so that in future your smartphone does not automatically connect automatically to the WLAN of the CO₂ traffic light instead of your private / institutional one.

3.3. Recieve push notifications

If you have successfully connected your CO₂ traffic light to your WLAN and this has thus been integrated into the cloud, you will automatically receive push notifications when the set threshold values are exceeded or not reached.

Please disconnect the WiFi between your smartphone and the CO₂ Ampel® after successful configuration.