

Conny CO₂ Ampel®

Operating Instructions



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Foreword

Dear customer,

You have opted for the CO₂ Ampel®, a quality product of ISIS IC GmbH.

ISIS IC GmbH offers you products that combine maximum comfort with concentration on the essentials. Products that meet your requirements and are largely self-explanatory and easy to use. The products have also proven to be reliable, sustainable and low-maintenance.

The present operating instructions describe the structure and operation of the CO₂ Ampel®. Please read these operating instructions before the first commissioning and observe the safety instructions.

Thank you for your trust.

your



D. Unsenos

Safety

General

Please read the user manual completely and carefully. It must be available in the event of uncertainty and also in the event of the product being passed on. Use the CO₂ Ampel® only at easily accessible sockets to quickly disconnect the CO₂ Ampel® from the grid in an emergency.

Attention: The effect of mechanical stress on the CO₂Ampel® e.B. by shocks or traps can lead to damage to the sensor and the CO₂ Ampel® and thus to the exclusion of liability (see "Disclaimer"). Please note that even minor vibrations can have an influence on the measurement accuracy, as this has been adjusted with high precision during the production of the sensor components. This can lead to deviations in the default setting of the calibration. Depending on the severity of the impact or mechanical action, this can lead to a deviation of several hundred ppm.

Notes on grid separation

The product does not have a power switch and may only be used on easily accessible sockets so that it can be quickly disconnected from the mains in an emergency and after use. The CO₂ Ampel® is only voltage-free when the plug-in power supply is pulled.

Safety instructions for operation

Before connecting the plug-in power supply to the socket, please pay attention to the correct power supply (230 V protective contact socket).

The CO₂ Ampel® can be used by children aged 16 and over and by persons with reduced physical, sensory or mental abilities or lack of experience and knowledge if they are supervised or have been instructed regarding the safe use of the product and understand the resulting dangers. Children are not allowed to play with the device. Before cleaning the CO₂ Ampel® it must be separated from the power supply (see chapter "Cleaning"). Lay the cable safely to avoid injuries caused by tripping and falling.

Privacy policy

The data protection information and other accompanying documents can be found under www.co2Ampel.online/downloads.

Intended use



The CO₂ Ampel® is only designed for indoor use and does not tolerate moisture. The operating location should be 1.5 meters away from the router, heaters and fireplaces. For safety reasons, the maximum permissible mounting height is 2 meters above the ground. Please observe these regulations and safety instructions and be sure to comply with them. If you do not do this, serious accidents, personal injury and property damage can be the consequences. Any use other than that described in the chapter "Device description" or in the "Safety instructions" is not permitted. The plug-in power supply of the CO₂ Ampel® is designed for voltages of up to 230 V. Please compare mains voltage and frequency of product and power grid before use.

The CO₂ Ampel® must be stored or operated indoors in the temperature range between 5°C and 35°C and at a relative humidity of 20 – 70%. The CO₂ Ampel® should be protected from dust and direct sunlight and disconnected from the power grid during prolonged storage. The intended use also includes storage (see chapter "Storage"). The device must not be manipulated. Opening the housing leads to damage to the CO₂ Ampel®, certification and warranty expire as a result.

Device description

The CO₂ Ampel® is a device for measuring and visualizing air quality based on the CO₂ concentration in indoor air.

Scope of delivery

- CO₂ Ampel® with plug-in power supply and wall mount
- Theft protection (optional)

- Free app "CO₂ Ampel®" in the Google Play Store and the App Store

Technical Data (device)

Device type designation (Art.-Nr.)	CO ₂ Ampel® (02437)
Empfängerkategorie	2 (Funkrichtlinie)
Funkfrequenz	2412 – 2484 MHz
Max transmission power	13 ±2 dBm
Protection	IP 20
Degree	2
ambient temperature	+5°C to +35°C
humidity	20% to 70%
dimension	E 78 x 150 mm
weight	355 g

Further data can be found in the factsheet at www.co2Ampel.online/downloads

CO₂ Ampel in relation to room size and room height

With a view to safety against risky aerosol spread, a room size of around 25 to 30 m² is used as a basis. There is no single sensor that reliably covers larger areas in enclosed spaces. Care must be taken to ensure that the CO₂ Ampel® is positioned at a room height of around 1.20 metres to 1.50 metres, so that it is exposed to the average air composition.

Area of application of the CO₂ Ampel®

The CO₂ Ampel® is intended and intended for use in closed, internal and dry rooms. The CO₂ Ampel® was developed primarily for use in schools, daycare centers, universities and public buildings in order to ensure active operation despite the risk of infection. It is also represented in hairdressing salons, restaurants, churches and meeting places.



It can be used wherever the gathering of crowds of people in enclosed spaces is to be made more protected and regulated.

The CO₂ concentration is measured by a high-quality, durable and self-calibrating sensor. The result is represented by the colors green, yellow or red on the basis of preset thresholds and supported by a beep. In addition, it can be digitally monitored through the intelligent connection with the cloud. This allows, among other things, a device failure message or a remote configuration.

Commissioning of the CO₂ Ampel®

Connection

For commissioning, power your device via a 230V plug-in and the supplied power supply. After a short start time, an optical display should appear green, yellow or red according to the existing air quality. The CO₂ Ampel® offers the following operating variants: The simple local operation as well as the extended operation "Cloud".

Acceptance test

For the function test, please blow with a small distance into the lateral openings of the device. With sufficient CO₂ exhalation, the CO₂ Ampel will indicate the threshold value being exceeded in a colored sequence. If necessary, it is necessary to blow several times into the openings. After good ventilation, the display of the CO₂ Ampel changes back to green.

Mounting of the wall bracket (optional)

Each CO₂ Ampel® is enclosed with a wall bracket. When using the Ampel® together with the wall bracket, attention must be paid to a maximum use height of 2 meters. When mounting the bracket, care must be taken to ensure that a minimum of 6 mm dowel and a screw of 4.5x50 mm are used.

During assembly, make sure that you can fully recognize the front optics of the Ampel® when you look vertically at the wall surface.

Theft Protection (optional)

Optionally, you have the possibility to purchase a "theft protection set". This is mounted on the wall in conjunction with the enclosed wall bracket and screwed with attached special key and corresponding screw. Without the special key, it is not possible to remove the CO₂ Ampel® non-destructively.

1. Mount the wall bracket at the desired location.
2. Hang the CO₂ Ampel® into the wall bracket (recess on the back wall of the CO₂ Ampel® hang on the hook).
3. Position the L-piece in such a way that it prevents the Ampel from being pushed up®. Screw the L-piece with the wall bracket using the special screw and special wrench.
4. Finally, you can mount the black fairing angle.

App usage

Installation of the CO₂ Ampel app

Search the Apple Store (iOS) or the Google Play Store (Android) for **CO₂ Ampel** and download the app via **download**.

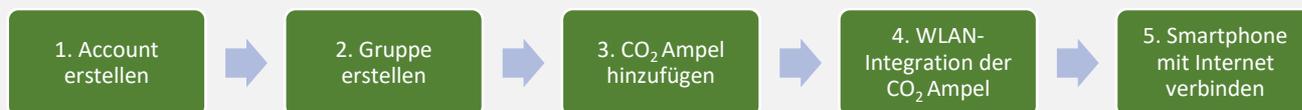
Information: The smart device must be connected to the Internet and must not be connected to the WLAN of the CO₂ Ampel.



Please make sure that you have installed the latest version of the CO₂ Ampel app on your smart device. If a more recent version is available, the **Update** button appears in the Google Play Store or in the Apple App Store.

Operating mode "Cloud"

You need the access data of the internet-enabled WLAN, in which you want to integrate the CO₂ Ampel. The following steps are necessary to set up the system.



For more devices, repeat steps 3-5.

If you need further information when setting up, cf. The following detailed description:

1. Create account

Please make sure that your smart device is connected to the Internet. Open your CO₂ Ampel app and select the operating mode "Cloud".

Create your personal account. To do this, enter your e-mail address, choose a password and accept the data protection agreement.

Information: To accept the privacy policy, follow the instructions of the e-mail.

2. Groups

Under **Groups**, all groups you have created are listed. Selecting a group (e.B. tapping the group name) takes you to the **devices**.

3. Devices

Under **Devices**, all devices added to this group are listed. The devices are listed under the assigned name with their current measured value. The current measured value is only displayed after a successful WLAN integration. You can rename the devices, delete them, or add new devices.

By selecting a device (e.B. tapping on the device name) you will be led to the devicesettings, bzw. wlan integration, if the device is not yet connected to the Internet.

Add device

- Select the "**plus symbol**" (to the right of the *groupname*) under **Devices**

- Scan the QR code of the CO₂ Ampel or manually insert the **device ID** of the CO₂ Ampel. **Information:** For this purpose, the camera use in the CO₂ Ampel app settings for the CO₂ Ampel app must be approved.
- Assign an individual device name for your CO₂ Ampel.
- Save your input. The CO₂ Ampel is displayed as a device in your **group**. It is now in your account, but is still offline. Start the WI-FI integration:
 - Perform **wi-fi integration** following adding the **device**. You will be automatically redirected to the menu, please follow the instructions on the screen.
 - Devices within a group that are offline are marked accordingly. A click on the device also leads to WLAN integration.

Connection to the WLAN of the CO₂ Ampel

Switch to the WLAN settings of your smart device. Leave the app open in the background. Connect your smart device to the WLAN of your CO₂ Ampel (*name and password of your CO₂ Ampel can be found on the nameplate on the back of the device/ device packaging, e.B. "CO₂_Ampel_F7D8"*).

If you receive the message "Your smartphone is not connected to the Internet", **ignore it** or click on **"Keep connection"**.

1. Switch back to your CO₂ Ampel app
2. click **next**
3. Select your internet-enabled WLAN (home network) and enter the corresponding WLAN password
(this can be found e.B. on the back of your router.)
4. Now change the WI-FI connection of your smart device and connect to the Internet as usual. (Here you leave the WLAN of the CO₂ Ampels.)

Until the data is transmitted after the WLAN integration and displayed in the CO₂ Ampel app, it may take a few minutes.



News

Messages are status messages from every CO₂ Ampel in their account if the set thresholds have been exceeded. These are sent when the threshold is exceeded. Messages can be searched. You can filter by device name, group name, color, or date. The "*garbage can icon*" can be used to delete the received messages.

Under **Settings**, the password can be changed and log in settings can be adjusted.

Via **data protection statement**, the current data protection statement can be retrieved and, if necessary, revoked.

Operating mode "Local"

For the local device operation, no account is necessary. You must be in close proximity to your CO₂ Ampel with your smart device.

Connection to the WLAN of the CO₂ Ampel

In the WLAN settings of your smart device, select the WLAN of your CO₂ Ampel

(The name and password of your CO₂ Ampel can be found on the nameplate on the back of the device/ device packaging, e.B. "CO2_Ampel_F7D8", see figure).

If you receive the message "Your smartphone is not connected to the Internet", *ignore* it or select: "*Keep connection*".

App usage

Open your CO₂ Ampel app and select **Local**. If you are still logged in to your CO₂ Ampel app account, please change your operating modus via the settings in the main menu.

1. Live-View

Live-View graphically displays the currently measured CO₂ concentration and the set threshold values.



2. Threshold Configuration

To configure your thresholds, select **Settings**. Here you can set your individual thresholds.

Note: The device uses preset thresholds for delivery. These can be found on the nameplate on the back of the device / device packaging.

3. Other device settings

Under **Settings**, you can configure additional parameters. These include fans, acoustic signal, optical signal.

We recommend that you change the WLAN connection of the smart device again after the configuration has been made.

Color code

Recommended behavior at "Green"

Green stands for good air quality depending on the CO₂ content. The respective current value varies depending on your settings.

Recommendation: Additional ventilation is not required.

Behavior at "Yellow"

Yellow stands for reduced air quality (in terms of CO₂). The CO₂ content is increased and is above the first threshold. The default setting of this threshold can be found in the device label.

If necessary, you have already met you personally en Ein positions.

Note: It is recommended to ventilate (shock ventilation with fresh air) until the CO₂ Ampel® indicates "green" again.



Behavior at "Red"

Red stands for poor air quality. The CO₂ content is significantly increased and is above the yellow visualized air quality. The threshold can be found in the device label or in your personally set thresholds (e.B. 2000 ppm).

Note: It is recommended to immediately perform shock ventilation until the CO₂ Ampel® again shows "green". If necessary, leave the room during ventilation.

Audible signal

The acoustic warning signal (beep) is factory activated. This supports the indication of the threshold exceedance. The acoustic warning signal can be switched on and off with the help of the app.

Information and help

Note: For a complete FAQ list ("frequently asked questions"), please visit our website: www.co2Ampel.online/faq

Cleaning

The CO₂ Ampel® can be cleaned from the outside with a soft, slightly damp cloth without cleaning agents if necessary and significantly contaminated. Cleaning from the inside is not necessary and inadmissible. It should be noted that the warranty expires when the housing is opened. Disinfection with a surface disinfectant (disinfectant cloth) is possible. For cleaning, remove the CO₂ Ampel® from the electricity and wipe all closed surfaces for cleaning. Avoid cleaning the air exchange areas (perforated area), as this can lead to a passage of liquid into the housing. The Ampel® must not be cleaned under running water and must not be exposed to direct spraying.

Storage

If the CO₂ Ampel® not in use, it must be stored cool, dry and in a dust-protected environment. In addition, we recommend storing the original packaging for possible return shipping.

Dispatch

The CO₂ Ampel® may only be shipped in a sufficiently padded (e.B. fully wrapped with bubble wrap) shipping carton including its own packaging. Make sure that the shipping packaging meets the requirements of the logistics service provider.

Maintenance

The CO₂ Ampel® is basically maintenance-free. After exposure to mechanical stress (e.B. significant impact, falling down, etc.), it may happen that the sensor needs a recalibration. Please inform yourself about this with the help of the CO₂ Ampel® app.

Repair

Do not make any changes/repairs to the device. For assistance, please see the FAQs (www.co2Ampel.online/faq). If you do not find what you are looking for there, please contact your specialist retail partner with confidence.

Disposal



The CO₂ Ampel® must not be disposed of as unsorted household waste. You must hand over this product to your local recycling service.

According to the European WEEE Directive, electrical and electronic equipment may not be disposed of with household waste. Their components must instead be recycled or disposed of separately. Toxic and dangerous components can cause lasting damage to health and the environment if they are disposed of improperly. As a consumer, you are therefore obliged under the Electrical Act (ElektroG) to return electrical and electronic devices at the end of their service life. For free return, manufacturers, sales outlets or public collection points set up for this purpose are available. Details are regulated in the respective state law. The symbol of the crossed-out garbage can indicates this circumstance. If you adhere to this type of recyclable material separation, recycling and disposal of waste equipment, you make an important contribution to the protection of our environment.

WEEE Number, EAR Foundation	27025213
Verpackungsregister	DE2169458460680

Disclaimer

We reserve the right to make printing errors or possible changes to the product, packaging or product documentation. Please pay attention to our warranty services. You can ask for these in current form under the mentioned contact details.

Disclaimer

Any use that does not comply with the points "Intended use" or "Safety instructions" leads to an exclusion of liability of ISIS IC GmbH.

EC declaration of conformity

ISIS IC GmbH hereby declares that the radio equipment type CO₂ Ampel complies with Directive 2014/53/EU. The full text of the EC declaration of conformity is available at the following Internet address: www.co2ampel.online/downloads

