

AIR CO₂NTROL UP – CO₂ Monitor



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Commercial registration number: Reg. Gericht Mannheim HRA 570186

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Bedienungsanleitung Instruction manual



Instruction manuals

www.tfa-dostmann.de/en/service/downloads/instruction-manuals

Kat. Nr. 31.5010.02






- (D) **Bedienungsanleitung**
 (GB) **Instruction manual**

(D)

Vielen Dank, dass Sie sich für dieses Gerät aus dem Hause TFA entschieden haben.


Bevor Sie mit dem Gerät arbeiten

- **Lesen Sie sich bitte die Bedienungsanleitung genau durch.**  Die Bedienungsanleitung liegt dem Gerät bei oder zum Download unter www.tfa-dostmann.de/service/downloads/anleitungen
- Verwenden Sie das Gerät nicht anders, als in der Anleitung dargestellt wird.
- Durch die Beachtung der Bedienungsanleitung vermeiden Sie auch Beschädigungen des Gerätes und die Gefährdung Ihrer gesetzlichen Mängelrechte durch Fehlgebrauch.
- **Beachten Sie besonders die Sicherheitshinweise!**
- **Bewahren Sie die Bedienungsanleitung gut auf!**

(GB)

Thank you for choosing this instrument from TFA.

Before you use this product

- **Please make sure you read the instruction manual carefully.**  The operating instructions are enclosed with the device or can be downloaded at www.tfa-dostmann.de/en/service/downloads/instruction-manuals
- This product should only be used as described within these instructions.
- Following and respecting the instructions in your manual will prevent damage to your instrument and loss of your statutory rights arising from defects due to incorrect use.
- **Please take particular note of the safety advice!**
- **Please keep this instruction manual safe for future reference.**




- (F) **Mode d'emploi**
 (I) **Istruzioni per l'uso**

(F)

Nous vous remercions d'avoir choisi l'appareil de la société TFA.


Avant d'utiliser votre appareil

- **Veuillez lire attentivement le mode d'emploi.**  Le mode d'emploi est joint à l'appareil ou peut être téléchargé à l'adresse suivante www.tfa-dostmann.de/en/service/downloads/instruction-manuals
- N'utilisez jamais l'appareil à d'autres fins que celles décrites dans le présent mode d'emploi.
- En respectant ce mode d'emploi, vous éviterez d'endommager votre appareil et de perdre vos droits légaux en cas de défaut si celui-ci résulte d'une utilisation non-conforme.
- **Suivez bien toutes les consignes de sécurité !**
- **Conservez soigneusement le mode d'emploi !**

(I)

Vi ringraziamo per aver scelto l'apparecchio della TFA.

Prima di utilizzare l'apparecchio

- **Leggete attentamente le istruzioni per l'uso.**  Le istruzioni per l'uso sono allegate all'apparecchio o possono essere scaricate da www.tfa-dostmann.de/en/service/downloads/instruction-manuals
- Non utilizzate il prodotto in maniera diversa da quanto descritto in queste istruzioni.
- Seguendo le istruzioni per l'uso, eviterete anche di danneggiare il prodotto e di pregiudicare, a causa di un utilizzo scorretto, i diritti del consumatore che vi spettano per legge.
- **Prestate particolare attenzione alle misure di sicurezza!**
- **Conservate con cura le istruzioni per l'uso.**

AIR CO₂NTROL UP – CO₂ Monitor

Empfohlener Arbeitstemperaturbereich	+10...30°C
CO ₂ -Sensor	(Idealbedingungen auch bei der manuellen Kalibrierung)

Temperatur

Messbereich	0 °C... +50°C (32°F...122°F)
Auflösung	0,1°C
Genauigkeit	±1 °C

Luftfeuchtigkeit

Messbereich	25...95%RH
Auflösung	1% RH
Genauigkeit	±5% RH

Gehäusemaße	77 x 96 x 144 mm
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Gewicht	203 g (nur das Gerät)
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Die neuesten technischen Daten und Informationen zu Ihrem Produkt finden Sie auf unserer Homepage unter Eingabe der Artikel-Nummer in das Suchfeld.

www.tfa-dostmann.de

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AIR CO₂NTROL UP – CO₂ Monitor**1. Delivery contents**

- CO₂ Monitor
- USB-Type-C-1,5 m cable and power adaptor
- Instruction manual

2. Range of application and all the benefits of your new instrument at a glance

- For monitoring the CO₂ concentration in buildings, where people are present, eg: schools, offices, public facilities
- High performance NDIR Dual Beam sensor
- Large CO₂ display with extended traffic light indication (green/yellow/blue/red)
- Display of indoor temperature (°C/°F) and humidity
- Memory of the highest and lowest values of CO₂, temperature and humidity
- Alarm function for CO₂ concentration
- High contrast display with 4 brightness levels
- Power connection via USB Type-C cable and power supply (included) or a suitable USB power source
- Integrated rechargeable battery with 12 hours runtime

3. For your safety

- This product is exclusively intended for the range of application described above. It should only be used as described within these instructions.
- Unauthorized repairs, alterations or changes to the product are prohibited.



Caution!
Risk of electrocution!

- Connect the device using the USB cable and the supplied power supply to a mains socket installed within your country's electrical safety regulations and with a correct mains voltage (see nameplate) or connect the device via the USB cable to a suitable USB power source such as a computer, notebook.
- The mains socket must be located near the equipment and it must be easily accessible.
- Unplug the device immediately if any fault occurs.
- The device and the power adapter must not come into contact with water or moisture. Only suitable for indoor use.
- Do not use the device if the housing, the USB cable or the power adaptor are damaged.

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- Operate the device out of reach of persons (including children) who cannot fully appreciate the potential risks of handling electrical equipment.
- Connect the USB cable to the device and the power adaptor first and then plug the power adapter into the socket.
- Route the USB cable lead so that it does not come into contact with sharp-edged or hot objects.



Caution!
Risk of injury!

- **Batteries containing lithium carry a risk of fire or explosion due to heat or mechanical damage!**
- Protect it from high temperatures. Do not throw into fire, short-circuit or take apart. If the device becomes hot while charging or the battery is no longer charged, this is a sign of a defect. Disconnect the device from the charging power source immediately.
- The battery cannot and must not be replaced or removed by you. There is a risk of explosion if the battery is replaced incorrectly. If necessary, a qualified person can obtain instructions on how to dismantle the permanently installed battery from info@tfa-dostmann.de, should this be necessary for the purpose of repairing or recycling the product.



Important information on product safety!

- Do not expose the device to extreme temperatures, vibrations or shocks. Avoid direct sunshine.
- The instrument is not unbreakable. In case of falling down parts can break.

4. Elements

A: LCD display (Fig. 1):

- A 1:** Battery symbol
- A 2:** CO₂ alarm limit
- A 3:** CO₂ indication
- A 4:** Display of minimum values
- A 5:** CO₂ value > 2000 ppm
- A 6:** Extended traffic light indication
- A 7:** Indoor temperature and humidity
- A 8:** CO₂ alarm symbol
- A 9:** Display of maximum values

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B: Buttons (Fig. 1+2):

- B 1:** **POWER/LIGHT** sensor button
- B 2:** **DOWN/CALIBRATE** button
- B 3:** **MEM** button
- B 4:** **CO₂ SET** button
- B 5:** **CO₂ ALARM** button
- B 6:** **UP/°C/°F** button
- B 7:** **RESET** button

C: Housing (Fig. 3):

- C 1:** USB port

5. Getting started

Important note: When using the device for the first time, please make sure to connect the power supply uninterruptedly for 24 hours. The device will perform an automatic calibration within 24 hours.

- Plug the supplied USB-C cable into the designated port on the device and connect the unit to the mains using the power adapter.
- When using the mains adapter as a power supply, the integrated Li-Ion battery is charged. To fully charge, leave the device connected for approximately 4.5 hours.
- If you operate the device without a power connection, the battery runtime is about 12 hours at highest brightness level. The battery symbol flashes when the battery needs to be charged (battery voltage below 3.3 V) and the device switches off after some time.

6. Operation

- Press the **POWER/LIGHT** sensor button for 3 seconds to switch on the device.
- The device will issue two beeps and all segments will be displayed briefly.
- The display shows the current temperature and humidity.
- The CO₂ sensor goes into warm-up mode and starts a 150-second countdown. Afterwards the normal display appears. The device is ready for use.
- Press the **UP/°C/°F** button in normal mode to change between °C (Celsius) or °F (Fahrenheit) as temperature units.
- Briefly press the **POWER/LIGHT** sensor button to adjust the brightness in 4 steps (high, medium, low, off).
- Press the **POWER/LIGHT** sensor button for 3 seconds to deactivate the device.

AIR CO₂NTROL UP – CO₂ Monitor**7. Traffic light display**

- The CO₂ monitor shows the CO₂ comfort level with an extended traffic light display:

CO ₂ value (ppm)	Description
400-600	GOOD
601-1000	NORMAL
1001-1500	POOR
1501-2000	SERIOUS
2000 ↑	SERIOUS + ▲

8. CO₂ upper limit

- Press briefly the **CO₂ SET** button in normal mode. ▲ and 2000 ppm (default) or the last adjusted upper CO₂ limit appear on the display. After 3 seconds, the device automatically returns to the normal mode.
- Press and hold the **CO₂ SET** button for 2 seconds to enter the setting mode. The value flashes.
- Press the **DOWN/CALIBRATE** or **UP/°C/°F** button to set the desired upper limit in steps of 10ppm, while the value flashes.
- Press and hold the **DOWN/CALIBRATE** or **UP/°C/°F** button in setting mode for fast mode.
- Confirm the setting with the **CO₂ SET** button.
- The device will automatically quit the setting mode if no button is pressed for 20 seconds. The setting is saved.
- Press the **CO₂ ALARM** button in normal mode, to activate or deactivate the alarm function for the upper CO₂ limit. ☹ appears on the display when the alarm is activated.
- If the measured CO₂ value is above the upper limit setting, an alarm sounds and the CO₂ alarm symbol flashes. Press any button to stop the alarm sound. The CO₂ alarm symbol will continue flashing until the measured CO₂ value is below the set alarm limit.

9. CO₂, temperature and humidity maximum and minimum values

- Press the **MEM** button in normal mode.
- You can now read the highest measured values for CO₂, temperature and humidity of the last 24 hours (display MAX).

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- Press the **MEM** button again.
- The minimum values measured since the last 24 hours appear on the display (display MIN).
- Press the **MEM** button again to return to normal mode. The device will automatically quit the MAX/MIN mode if no button is pressed for 3 seconds.
- Press and hold the **MEM** button for 2 seconds during the highest or lowest values are displayed. The values will be deleted (display ----) and reset to the current state.

10. CO₂ manual calibration function

- For the whole calibration process, place the device outdoors. Choose a shady and dry place. Wait 15 minutes, the device must adapt to the environment.
- Use a pin to press the **RESET** button at the bottom. Wait until the normal display appears (see point 6. "Operation").
- Then press and hold the **DOWN/CALIBRATE** button for 2 seconds to enter the manual calibration mode. The CAL symbol flashes.
- Wait approx. 20 minutes, until the normal display with a CO₂ concentration of 400 ppm (fresh air) appears. The calibration is completed and the device returns to normal state. Now you can use the device again as usual.
- During the manual calibration operation, press the **DOWN/CALIBRATE** button to exit the calibration mode.

11. Care and maintenance

- Clean the device with a soft damp cloth. Do not use solvents or scouring agents.
- Turn off the device if you do not use it. Press the **POWER/LIGHT** sensor button for 3 seconds.
- Store the device in a dry place.

12. Troubleshooting

Problem	Solution
No display on the device	→ Press the POWER/LIGHT button for 3 seconds to switch on the device → Set the brightness with the POWER/LIGHT button

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- Connect the device with USB cable and power adapter and charge the battery
- Check the connection

Incorrect indication

Display Err

- Use a pin to press the **RESET** button

Indication: LL / HH

- Outside measuring range

If your device fails to work despite these measures, contact the retailer where you purchased the product.

13. Waste disposal

This product and its packaging have been manufactured using high-grade materials and components which can be recycled and reused. This reduces waste and protects the environment.

Dispose of the packaging in an environmentally friendly manner using the collection systems that have been set up.

**Disposal of the electrical device**

Caution! This device contains a built-in battery that cannot be removed without damaging the housing. Improper removal represents a safety risk. Hand in the device unopened at the collection point; the device and battery will be disposed of properly.

This product is labelled in accordance with the EU Waste Electrical and Electronic Equipment Directive (WEEE).

Please do not dispose of this product in ordinary household waste. As a consumer, you are required to take end-of-life devices to a designated collection point for the disposal of electrical and electronic equipment, in order to ensure environmentally-compatible disposal. The return service is free of charge. Observe the current regulations in place!

**WARNING!****Batteries containing lithium can explode**

- Batteries and rechargeable batteries containing lithium (Li=lithium) present a high risk of fire and explosion due to heat or mechanical damage with potentially serious consequences for people and the environment. Pay particular attention to correct disposal.

AIR CO₂NTROL UP – CO₂ Monitor**14. Specifications**

Power supply	USB-Type-C-1.5 m cable with power supply (included) Input: 100-240V AC 50/60Hz 0.5A max Output: 5.0V DC 1.0A, 5.0W Average active efficiency: ≥73.62% No-load power consumption: ≤0.10 W Built-in Li-Ion rechargeable battery
Capacity / Energy	3.7V / 2000 mAh / 7.4Wh
Charging time	Approx. 4.5 hours
Battery runtime	Approx. 12 hours (at highest brightness level)
CO₂	
Measuring method	Dual Beam Non-Dispersive-Infrared Technology (NDIR)
Measuring range	400ppm - 5000ppm
Resolution	1 ppm
Accuracy	± 50ppm ± 5%
Update interval	4 seconds
Warm-up time	150 seconds
Recommended operating temperature range	+10...30°C
CO ₂ sensor	(Ideal conditions also for manual calibration)
Temperature	
Measuring range	0 °C... +50°C (32°F...122°F)
Resolution	0.1°C
Accuracy	±1 °C
Humidity	
Measuring range	25...95%RH
Resolution	1% RH
Accuracy	±5% RH
Housing dimension	77 x 96 x 144 mm
Weight	203 g (device only)