Bedienungsanleitung
Instruction manual

Instruction manuals ***Kat. Nr. 31.5011.10***
www.tfa-dostmann.de/en/service/downloads/instruction-manuals

(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.***

1. Delivery contents

- CO_2 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 CO_2 concentration in buildings, where people are present, eg: schools, offices, public facilities
- Single Beam NDIR Sensor
- Large CO_2 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 CO_2, temperature and humidity
- Alarm function for CO_2 concentration
- High contrast display with 4 brightness levels
- Manual calibration function for CO_2 sensor
- Power connection via USB Type-C cable and power supply (included) or a suitable USB power source

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.

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- Do not use the device if the housing, the USB cable or the power adaptor are damaged.
- 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.

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: CO_2 alarm limit
A 2: CO_2 indication
A 3: Display of minimum values
A 4: CO_2 value > 2000 ppm
A 5: Extended traffic light indication
A 6: Indoor temperature and humidity
A 7: CO_2 alarm symbol
A 8: Display of maximum values

B: Buttons (Fig. 1+2):

B 1: **POWER/LIGHT** sensor button
B 2: **DOWN/CALIBRATE** button
B 3: **MEM** button
B 4: **CO_2 SET** button
B 5: **CO_2 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.*

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 CO_2 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.*

7. Traffic light display

- *The CO_2 monitor shows the CO_2 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. CO_2 upper limit

- *Press briefly the **CO_2 SET** button in normal mode. ▲ and 2000 ppm (default) or the last adjusted upper CO_2 limit appear on the display. After 3 seconds, the device automatically returns to the normal mode.*
- *Press and hold the **CO_2 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 **CO_2 SET** button.*
- *The device will automatically quit the setting mode if no button is pressed for 20 seconds. The setting is saved.*
- *Press the **CO_2 ALARM** button in normal mode, to activate or deactivate the alarm function for the upper CO_2 limit. ALARM CO_2 appears on the display when the alarm is activated.*
- *If the measured CO_2 value is above the upper limit setting, an alarm sounds and the CO_2 alarm symbol flashes. Press any button to stop the alarm sound. The CO_2 alarm symbol will continue flashing until the measured CO_2 value is below the set alarm limit.*

9. CO_2, temperature and humidity maximum and minimum values

- *Press the **MEM** button in normal mode.*
- *You can now read the highest measured values for CO_2, temperature and humidity of the last 24 hours (display MAX).*
- *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. Calibration of the CO_2 sensor

10.1 Automatic calibration of the CO_2 sensor

- *The sensor is automatically calibrated every 24 hours to the lowest CO_2 reading obtained during that period to keep the deviation low during prolonged use. To perform the calibration, the power supply must be connected continuously for 24 hours.*

- *For proper functioning, it is therefore necessary to ensure maximum ventilation at least once a day. Otherwise, the device is using a faulty basis for automatic calibration and an incorrect display may occur. In this case, a restart under fresh air conditions or a manual calibration as described below is recommended.*
- ***Note:** The product is not suitable for a location where ideal ventilation is not possible (in permanently closed rooms).*

10.2 Manual calibration of the CO_2 sensor

- *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 CO_2 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* ➜ *Connect the device with USB cable and power adapter* ➜ *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.

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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

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!

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*
CO_2	
Measuring method	*Single Beam Non-Dispersive-Infrared Technology (NDIR)*
Measuring range	*400ppm - 5000ppm*
Resolution	*1 ppm*
Accuracy	*± 100 ppm ± 10%*

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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	*172 g (device only)*

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