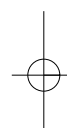


*Bedienungsanleitung*  
*Instruction manual*  
*Mode d'emploi*  
*Istruzioni per l'uso*  
*Gebruiksaanwijzing*  
*Instrucciones de uso*



*Instruction manuals*  
[www.tfa-dostmann.de/en/service/downloads/instruction-manuals](http://www.tfa-dostmann.de/en/service/downloads/instruction-manuals)

**Kat. Nr. 31.5002**

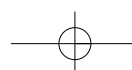
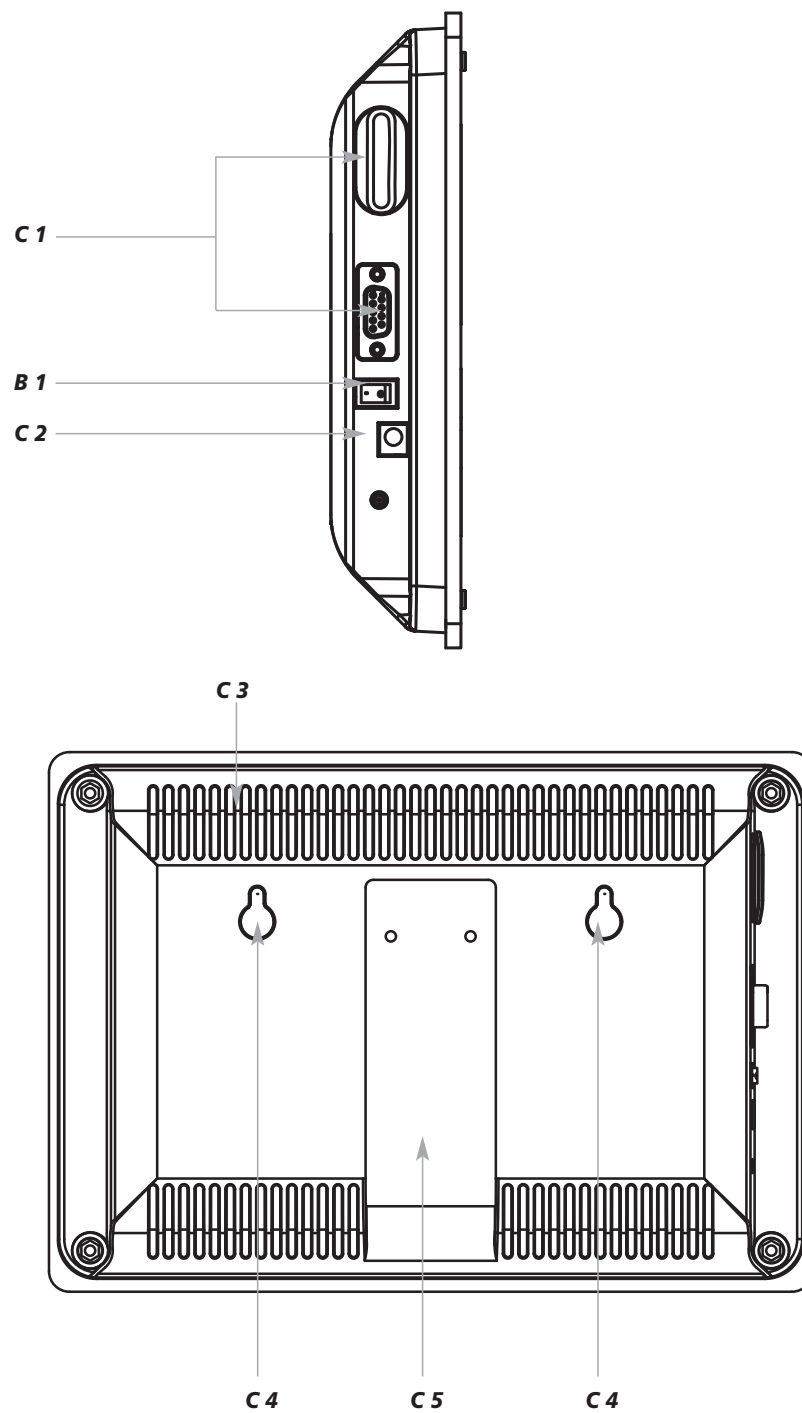


Fig. 1



Fig. 2



**AIRCO<sub>2</sub>NTROL OBSERVER – CO<sub>2</sub> Monitor**

Thank you for choosing this instrument from TFA.

**1. Before you use this product**

- **Please make sure you read the instruction manual carefully.**  
This information will help you to familiarise yourself with your new device, learn all of its functions and parts, find out important details about its first use and how to operate it, and get advice in the event of faults.
- **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.**
- **We shall not be liable for any damage occurring as a result of non-following of these instructions. Likewise, we take no responsibility for any incorrect readings or for any consequences resulting from them.**
- **Please pay particular attention to the safety notices!**
- **Please keep this instruction manual safe for future reference.**

**2. Delivery contents**

- Measuring instrument
- AC/DC power adaptor
- Support
- Instruction manual

**3. Field of operation and all of the benefits of your new instrument at a glance**

- For monitoring the CO<sub>2</sub> concentration in buildings, where people are present, eg: schools, offices, public facilities
- Large display with LED indication (green/yellow/red)
- Indication of indoor temperature and humidity
- Automatic brightness adjustment
- Wall mounting or table stand (removable)

**4. For your safety**

- The product is exclusively intended for the field of application described above. The product should only be used as described within this instruction.
- Unauthorised repairs, modifications or changes to the product are prohibited.



**Caution!**  
**Risk of electrocution!**

- Plug the device only into a mains socket installed within your country's electrical safety regulations and with a correct mains voltage (see nameplate).
- The mains socket must be located near the equipment and it must be easily accessible.
- Unplug the device immediately if any fault occurs.
- The instrument and the mains adapter must not come into contact with water or moisture. Only suitable for operation in dry interiors.
- Do not use the unit if the housing or the mains adapter are damaged.
- Operate the device out of reach of persons (including children) who cannot fully appreciate the potential risks of handling electrical equipment.
- Only use the supplied mains adapter.
- Do not pull the plug out of the socket by its lead.
- Route the mains 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.
- Leave the protective caps at the left edge of the housing.

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- Protect the unit from EMI (Electro Magnetic Interference) from induction heaters and microwave ovens and Electro Static Discharge. Readings may be affected if the unit is operated within a radio frequency electromagnetic field strength of approximately 3 volts per meter, but the performance of the instrument will not be permanently affected.

**5. Elements**

**LCD display (Fig. 1):**

- A 1:** CO<sub>2</sub> indication
- A 2:** Smiley-LED
- A 3:** Indication of temperature and humidity
- A 4:** Dimmer-sensor

**B: Buttons (Fig. 2):**

- B 1:** On (I) and Off switch (O)

**Housing (Fig. 2):**

- C 1:** Protecting covers\*
- C 2:** Power socket
- C 3:** Air filter
- C 4:** Supports for wall mounting
- C 5:** Support for the stand

\* These two devices are only important for calibration during production and have no function for the user. **Do not remove!**

**6. Getting started**

- Pull off the protection foil on the display.
- Insert the adapter into the jack. Connect the power adapter to a wall socket.
- Press the On/Off switch to turn on (I) the instrument.
- The unit is ready for use.
- The actual measurements will appear on the display: Temperature, humidity and CO<sub>2</sub> concentration with the suitable smiley indicator.
- With each measurement a point will light up for a few seconds in the right corner of the display. The latest results will appear immediately.

**7. Dimmer-function**

- The built-in brightness sensor adjusts the backlight to its environment automatically. This function saves energy.

**8. Smiley - LED indication**

- ☺ **Laughing face:**  
The CO<sub>2</sub> concentration is below 800 ppm. The green warning lamp lights up.
- ☹ **Neutral face:**  
The CO<sub>2</sub> concentration is between 800 ppm and 1200 ppm. The yellow warning lamp lights up.
- ☹ **Sad face:**  
The CO<sub>2</sub> concentration is over 1200 ppm. The red warning lamp lights up

**9. Care and maintenance**

- Clean it with a soft damp cloth. Do not use solvents or scouring agents. Protect from moisture.
- Pull out the plug of the socket, if you do not use the product for a lengthy period.
- Keep the instrument in a dry place.

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**10. Troubleshooting**

| Problems                 | Solution  |
|--------------------------|---|
| No display               | → Connect unit to mains adapter<br>→ Switch on the instrument (I) |
| Incorrect display        | → Restart the instrument  |
| Indication Hi (for ppm)  | → CO <sub>2</sub> concentration is over 3000 ppm                  |
| Indication Lo (for %rF)  | → Humidity is under 20 % rH                                       |
| Indication Hi ( for %rH) | → Humidity is over 90 %rH   |

**11. 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**

Remove non-permanently installed batteries and rechargeable batteries from the device and dispose of them separately.

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. Observe the current regulations in place!

**12. Specifications**

|                          |  |
|--------------------------|--|
| Power supply:            | Power supply (included)<br>Input: 100-240V AC 50/60Hz 1.0A<br>Output: 19.0V DC 2.1A, 39.9W<br>Average active efficiency: ≥87.59%<br>No-load power consumption: ≤0.10 W |
| Power consumption:       | 7 Watts (max.)   |
| <b>CO<sub>2</sub></b>    |  |
| Measuring range:         | 0 ...3000 ppm  |
| Resolution:              | 1 ppm at 0 ... 1000 ppm<br>5 ppm at 1001 ... 2000 ppm<br>10 ppm at 2001 ... 3000 ppm   |
| Repeatability:           | ±20 ppm  |
| Accuracy:                | ±5 % or ±70 ppm at 0...2000 ppm (whichever is greater)<br>±7% > 2000 ppm   |
| Temperature dependence:  | Typ. ±0,2 % per °C or ±2 % ppm per °C<br>(whichever is greater), referenced to 25 °C   |
| Air pressure dependence: | 0,13 % pro mm Hg   |

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|                |  |
|----------------|--|
| Display Hi:    | CO <sub>2</sub> concentration is over 3000 ppm |
| Response time: | Approximately 2 minutes for 63% of step change |
| Warm-up time:  | < 60 seconds at 22 °C                          |
| Method:        | Non-Dispersive-Infrared Technology (NDIR)      |

**Temperature**

|                  |   |
|------------------|---|
| Measuring range: | 0 °C ... 40 °C                                      |
| Resolution:      | 0,1 °C  |
| Accuracy:        | ±1 °C   |
| Response time:   | 20-30 minutes (case must equalize with environment) |

**Humidity**

|                        |                                     |
|------------------------|-------------------------------------|
| Measuring range:       | 20%rH ~ 90%rH                       |
| Resolution:            | 1%RH                                |
| Accuracy:              | ±5% at 23 %                         |
| Response time:         | < 5 minutes for 63 % of step change |
| Display Lo:            | Measuring range under 20 % rH       |
| Display Hi:            | Measuring range over 90 % rH        |
| Operating temperature: | 0 °C ... 40 °C                      |
| Operating humidity:    | 0...95 % rH non-condensing          |
| Storage temperature:   | -20 °C ... 60 °C                    |
| Dimensions:            | 297 x 45 x 210 mm                   |
| Weight:                | 1400 g (only instrument)            |

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