AIRCO$_2$NTROL COACH – CO$_2$ Monitor   (GB)

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 familiarize yourself with your new device, to learn all of its functions and parts, to find out important details about its first use and how to operate it and to get advice in the event of a malfunction.
• **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 take particular note of the safety advice!**
• **Please keep this instruction manual safe for future reference.**

2. Delivery contents
• *CO$_2$ Monitor*
• *USB cable*
• *Instruction manual*

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3. 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
• Indication of actual CO$_2$ concentration and history value of the last 24 hours
• Multi-function display illumination in different colours
• Indication of time, temperature and humidity
• Micro USB port (5V) to power via PC or power adapter

4. 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 via the USB cable only to a suitable USB power source such as a computer, USB power adapter (DC 5V ≥300mA).

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• The device and the USB cable must not come into contact with water or moisture. Only suitable for indoor use.
• Do not use the device if the housing or the USB cable are damaged.
• Operate the device out of reach of persons (including children) who cannot fully appreciate the potential risks of handling electrical equipment.
• Unplug the device if any fault occurs or if the device is not used for a long period of time.
• 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.
• To avoid damage to the electronics, do not remove the protective cover or insert sharp object through the ventilation slots.

⚠ **EMC/RFI**

• Protect the unit from EMI (Electro Magnetic Interference) from induction heaters, 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. The performance of the instrument will not be permanently affected.

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5. Elements

5.1 Display (Fig. 1)

A 1: CO$_2$ indication
A 2: CO$_2$ history of the last 24 hours
A 3: Time
A 4: Temperature
A 5: Humidity

5.2 Buttons (Fig. 1)

B 1: **MODE** button
B 2: **+** button

5.3 Housing (Fig. 2+3)

C 1: Micro USB port
C 2: Mounting holes

6. Getting started

• Insert the supplied USB cable with the micro USB plug into the provided opening on the device. Connect the device via the USB cable only to a suitable USB power source.

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• "Auto" is displayed shortly after a successful connection, then "- - - -"" The backlight turns on.
• The black bars disappear one by one.
• The device is ready for use.
• The actual measurements will appear on the display: CO$_2$ concentration, temperature, humidity.
• The clock must be set to the current time in setting mode.

7. Settings

7.1 Selection of the multi-function display illumination

• The device has a multi-function display illumination in different colours. Depending on the setting, the illumination colour is used to evaluate and interpret the current CO$_2$ measured values.
• You can select your respective setting by pressing the **MODE** button.
• Wait some seconds until the display returns to normal mode to confirm the setting.
• The following four settings are available:

  7.1.1 „Auto" (default)
  In this mode, the display colour changes automatically in smooth transitions between the 3 colour shades, depending on the current reading of the CO$_2$ levels.
  Green: Optimal air quality: The CO$_2$ concentration is below 800 ppm.
  Yellow: Medium air quality: The CO$_2$ concentration is between 800 ppm and 1400 ppm.
  Red: Poor air quality: The CO$_2$ concentration is over 1400 ppm.

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7.1.2 „AL"

In this mode, the red display illumination is activated as an optical signal in the event of an alarm when the limit value (default> 1400 ppm) has been exceeded.
You can set the alarm limit value in setting mode.

7.1.3 „on"

In this mode, you can set the display illumination to a single colour.
Choose between 7 colours in setting mode.

7.1.4 „OFF"

The backlight is off in this mode.

7.2 Setting mode

• *Press and hold the **MODE** button for 3 seconds. SEL COL appears and you can use the **+** button to select the display illumination colour for the "on" mode.*
  1 = WHITE
  2 = LIGHT BLUE
  3 = DARK BLUE
  4 = PURPLE
  5 = RED
  6 = YELLOW

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  7 = GREEN
• *Confirm with the **MODE** button.*
• *"AL" appears and the default setting is 1400 ppm.*
• *Use the **+** button to set the desired alarm limit (400 to 3000 ppm) in increments of 100 for the "AL" mode*
• *Confirm with the **MODE** button.*
• *The time appears on the display. The hour digits flash.*
• *Press the **+** button to adjust the hours.*
• *Press the **MODE** button again and set minutes in the same way.*
• *Confirm with the **MODE** button.*
• *"ECO L" appears and the default setting is OFF. If the ECO LIGHT function is activated, the light is dimmed between 22:00 and 6:00. Please set the actual time to use this function.*
• *Press the + button to activate (ON) or deactivate (OFF) the function.*
• *Confirm the setting with the **MODE** button to return to normal mode.*
• *The device will automatically quit the setting mode if no button is pressed for 20 seconds.*

8. Display section HISTORY

• *The graph shows the measured CO$_2$ values of the last 24 hours clearly.*
  • *The bar on the position "0 h" always corresponds to the current measured value of the CO$_2$ level (the bar is updated every 10 seconds, together with the measured value).*

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- The bar "- 3" corresponds to the average of the CO$_2$ levels of the last 3 hours.
- The bar "- 6" corresponds to the average value of the CO$_2$ levels for the period between 3 to 6 hours.
- The bar "- 12" corresponds to the average value of the CO$_2$ levels for the period between 6 to 12 hours.
- The bar "- 18" corresponds to the average value of the CO$_2$ levels for the period between 12 to 18 hours.
- The bar "- 24" corresponds to the average value of the CO$_2$ levels for the period between 18 to 24 hours.
- The average values of bars "- 3" to "- 24" are recalculated and updated every 10 minutes.

9. Care and maintenance
- Clean the device with a soft dry cloth. Do not use solvents or scouring agents. Protect it from moisture.
- Keep the device in a dry place.

10. Troubleshooting

Problem	Solution
No display	➔ Connect the device with the micro USB cable to a suitable power source

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Incorrect indication	➔ Restart the device
Display 9999	➔ System error Restart the device

11. Waste disposal
This product has been manufactured using high-grade materials and components which can be recycled and reused.

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.

12. Specifications

Power consumption	DC 5V, ≥300mA (USB) USB cable included

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CO$_2$
Measuring range	0 …9999 ppm
Resolution	1 ppm
Accuracy	±7 % or ±100 ppm at 0…3000 ppm (whichever is greater)
	±10 % at > 3000 ppm

Update interval	10 seconds
Warm-up time	approx. 10 seconds
Method	Non-Dispersive-Infrared Technology (NDIR)

Temperature
Measuring range	0 °C … 50 °C
Resolution	0.1°C
Accuracy	± 1.0°C

Humidity
Measuring range	1% to 95% rH
Resolution	1% RH
Accuracy	±3 % rH (at 35…75 % rH)

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Operating temperature	0 °C … 50 °C
Storage range	-20 °C … 60 °C
Dimensions	105 x 32 x 55 mm
Weight	86 g (device only)

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