

# E2250 AIR QUALITY MONITOR USER MANUAL

## 1. PRODUCT DESCRIPTION

Air quality monitor E2250 measures and displays carbon dioxide (CO<sub>2</sub>) concentration, temperature and humidity. The device displays real-time measured values and alarms the user when air quality becomes poor.

### 1.1 TECHNICAL SPECIFICATION

Sensors	Digital RH and temperature sensors Optical (NDIR) CO <sub>2</sub> sensor	
Measured range	Temperature Humidity CO <sub>2</sub>	-10...+50 °C 20...85 %RH 400...5000 ppm
Resolution	1 ppm / 1 °C / 1 %RH	
Accuracy	±50 ppm CO <sub>2</sub> ±5% reading value ±1 °C / ±4 %RH	
Power supply	Lithium battery with 1600 mAh capacity	
Battery charger	Micro-USB cable 1,2 m with adapter (output 5V 1A)	
Operating conditions	-10...+60 °C; 20...85 %RH	
Screen brightness levels	Six levels	
Dimensions and weight	70 x 80 x 35 mm; 150 g	

## 2. DELIVERY SET

Delivery set consist of:

- Air quality monitor E2250
- Micro-USB cable with adapter
- User manual

## 3. OVERVIEW

Please read the following instructions carefully before using the device. For best accuracy, it is recommended to keep the device in fresh air for a few minutes before using it inside. ABC (Automatic Background Calibration- auto calibration in fresh air, which is considered 413 ppm CO<sub>2</sub>) is based on the 24-hour minimum value of CO<sub>2</sub> concentration. That means the device will calibrate itself automatically based on the 24 hour minimum value of CO<sub>2</sub> concentration. Therefore, it is recommended that the device should be connected with the charger and turned on to avoid the failure of the daily calibration due to the empty battery.

## 4. SAFETY PRECAUTIONS

Avoid covering the air intake areas during use- it can result in inaccurate measurements. Do not use solvents to clean the product as residual fumes will affect the air quality readings. Do not spill liquid (coffee, tea, water) on the product as it can cause electrical damage to the device. The device can be fixed and opened up only by certified people.

## 5. INSTRUCTIONS

### 5.1 START UP

To turn the device on, press the power button on top of the device. To turn off the device, push the power button for two seconds. When the device is turned on, single-click on the power button will switch the screen brightness. Screen brightness has six levels.

### 5.2 CHARGING

When the low battery icon (red battery icon) on top of the right corner is displayed the device needs to be charged. Connect the micro-USB charger with the device (micro-USB inlet on the back of the device). Connect the adapter to the power supply (230V 50 Hz socket). The device takes up to 2-3 hours to fully charge. When the battery is full, the battery icon will turn green. When charging the device via computer USB output consider longer charging time (computer USB output is only 500 mA). It is recommended and allowed to keep the device charging at all times.

### 5.3 PARAMETERS AND ALARM

CO<sub>2</sub> sensor reaction time is approximately 15 seconds. The device is equipped with three indicators and sound alarm to display carbon dioxide concentration and notify about its increase.

Green (good air quality)	400...1000 ppm CO <sub>2</sub>
Orange (normal air quality)	1001...2000 ppm CO <sub>2</sub>
Red (poor air quality)	2001...5000 ppm CO <sub>2</sub>

When CO<sub>2</sub> concentration exceeds 1000 ppm, a sound alarm is triggered to alert the user that the room needs to be ventilated. The sound alarm consists of two consecutive tones. Further rise of the CO<sub>2</sub> concentration also triggers the alarm. The sound alarm will be silenced when CO<sub>2</sub> concentration is dropping.

## 6. WARRANTY

During the warranty period Manufacturer will, at its option, either repair or replace a product that proves to be defective. This warranty is void if the product has been operated in conditions outside ranges specified by the Manufacturer or damaged by customer error or negligence or if there has been an unauthorised modification.

Warranty product will be null and void if:

- The product is damaged physically
- The product is repaired, maintained, modified, and disassembled by uncertified person
- The device has been charged with unsuitable power supply

For warranty and technical support, please contact: support@evikon.eu.

