# Temtop

**C1**
**Air Quality Monitor**
**User Manual**

## Factors Affecting Air Quality

Carbon dioxide(CO2) is a colorless and odorless gas usually derived from the breath of humans and animals. High CO2 concentration means that fresh air or ventilation is required; otherwise, it may cause problems such as drowsiness, dizziness, loss of attention, and cognitive impairment.

Temperature & Humidity may often be ignored. However, they do have a significant impact on an individual's well-being, comfort, health and safety, as well as your property. High Humidity may lead to an increase in household air pollutants, especially the biological contaminants such as molds, bacteria, viruses, and dust mites; cold, low Humidity may cause nosebleeds, skin and respiratory irritations, dyspnea, static electricity, etc.

## Important

★ Do not expose the detector to heavily contaminated environments for long periods, as this can damage the sensor.
★ Do not use the detector for long periods in environments with a strong, irritating smell to ensure accurate measurements.
★ Do not dismantle the unit yourself. In the event of a defect, contact your dealer instead, who will liaise with the service center and, if necessary, send the device in for repair.
★ Children should only use this device under adult supervision. Keep packaging materials, such as plastic bags and plastic wrap, out of the reach of children as they present a choking hazard.
★ If the battery level shows ▭ , please charge the detector in time to avoid being affected  during use (it can also recharge when switched off).
★ This product is intended for monitoring the health of the indoor environment only and should not be considered a professional measurement tool.

# Overview



① Buzzer status    ② $CO_2$ level    ③ Health level display area

④ Temperature & Humidity level    ⑤ Battery level & Charging status

⑥ Work mode    ⑦ Magnetic back    ⑧ Vents

## Overview
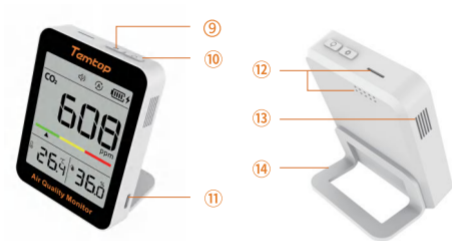
| ⑨ Mode button | ⑩ Power button | ⑪ USB port |
|---|---|---|
| ⑫ CO₂ detection port | ⑬ Temperature & Humidity detection port | |
| ⑭ Bracket | | |

## Specifications

| Model | C1 |
|---|---|
| $CO_2$ | Measuring range: 400-5000ppm<br>Resolution: 1ppm<br>Accuracy: ±(40ppm +5%)<br>            (400-2500ppm) |
| Temperature* | Measuring range: -10-60°C (14-140°F)<br>Resolution: 0.1°C (-9.9-70°C)<br>Accuracy: ±0.5°C |
| Humidity | Measuring range: 0-99%RH<br>Resolution: 0.1%RH<br>Accuracy: ±3%RH |

*  When charging the product, the temperature will be ± 0.5℃ error and will be recovered in about 10 minutes after the charging is completed.
When the temperature measurement environment suddenly changes, and the temperature difference is significant, it takes 3 to 5 minutes of adaptation time.

## Specifications

| Dimension | 3.5*2.7*0.7 (inches) |
|---|---|
| Battery Capacity | 800mAh |
| Work Mode* | ⓔⓒⓞ Power-saving mode (Sampling interval 10 min)<br>Ⓐ Performance mode (Sampling interval 1 min) |
| Battery Life | ⓔⓒⓞ About 70 days<br>Ⓐ About 30 days |
| Input | 5V/1A |
| Display | Segment code screen 3.3 inches |
| Weight | About 110g |
| Operation Environment | -10-60°C/0-90%RH |

\* When the product is charging, the data will keep refreshing every 5 seconds.

Note: The above data are from Temtop Laboratory.

## Operation

### 1. On/Off



**Power button**

1) Press 🔘 3s to turn on/off the C1 monitor.

2) Short press 🔘 to turn on/off the alarm.

🔊 Buzzer switch Icon

Displayed--buzzer sound on the device is turned on;

Disappears--the buzzer sound is turned off.

## Operation

## 2.Display

1. The C1 has two working modes, and you can switch the working mode by pressing the mode button after powering on.

**Mode display**

**Mode button**

1 ) Short press to switch between the work mode (2 different types)
2 ) Long press 2s to switch between the temperature unit (°F/℃)

Temtop
$CO_2$
608
ppm
26.4  36.0
Air Quality Monitor

⓮ Power-saving mode (Sampling interval 10 min)
$CO_2$ sensor works every 10 minutes.

Ⓐ Performance mode (Sampling interval 1 min)
$CO_2$ sensor works every 1 minutes.

Note: If the temperature and humidity change is high, it will be refreshed once in 5 seconds; if the temperature and humidity change is low, it will be refreshed once in 10 seconds.

## Operation

2. C1 monitoring function



Power display

Charging icon

USB interface

1) When the battery is displayed as ▭ empty, please charge it in time, and the charging icon ⚡ will be displayed when charging.

2) When the battery power is extremely low, the battery icon ▭ will flash 3 times and the shut down.

## Operation

3. $CO_2$ calibration

Switch on the detector in an outdoor ventilated area; Long press the [⊙] and [⊍] to enter the calibration state, the $CO_2$ title on the screen flashes, the $CO_2$ display area starts to count down 200 seconds; the countdown ends, and the calibration is complete.

Note:
1) During manual calibration, the monitor must be exposed to fresh outdoor air (approx. 400 ppm of $CO_2$) at least 1 meter away from people or animals.
2) In calibration mode, press the [⊍] button to stop calibration mode.
3) Please ensure the power supply is sufficient during the calibration process. If the calibration mode is forcibly excited due to shutdown or power failure, the calibration may fail, and the data will be inaccurate, so you need to re-calibrate.

Press and hold the [⊙] and [⊍] buttons for 2 seconds.

## Air Quality Parameter for Reference

### $CO_2$ threshold level indication

Green represents a good $CO_2$ level (400 to 1000 ppm)

Yellow represents the average $CO_2$ level (1001 to 1500 ppm)

Red represents an unhealthy $CO_2$ level (1501 to 5000 ppm)

Note: When an increase in $CO_2$ concentration reaches a poorer level range, the buzzer alarm is triggered.

# Multiple Mounting Choices

① Place Directly

② Tabletop Stand
(Bracket Included)

③ Magnetic Back

## What's Included

- Detector x 1

- USB cable x 1

- User manual x 1

- Bracket or accessories set x 1

## FAQ

**Q: Why are there two modes?**

A: We offer two modes to cater to different usage scenarios. Mode Ⓐis suitable for situations where real-time monitoring of environmental parameters is needed. It has a higher data collection frequency but shorter battery life. This Mode is best suited for scenarios with frequent ecological changes, such as traveling. For regular usage, we recommend selecting the ⓔⓒⓞ mode. The ⓔⓒⓞ mode is designed for long-term monitoring, offering a longer battery life but a lower data collection frequency. Choose the Mode that best suits your specific needs.

**Q: Why does Mode Ⓐ have a shorter battery life?**

A: Mode Ⓐ has a higher data collection frequency, with data being collected every minute. Therefore, it has a relatively shorter battery life.

## FAQ

**Q: If I need to monitor CO2 data for an extended period continuously, will this impact the device's lifespan?**
A: According to Temtop Laboratory's testing, continuous real-time monitoring of CO2 data for an extended period has a negligible impact on the device's lifespan.

**Q: Why is the temperature high when charging?**
A: The temperature and humidity sensor is located inside the product. When charging, a large amount of heat will be generated, causing the actual temperature of the product to rise.

**Q: Why is CO2 data high?**
A: The user's environment may be poorly ventilated, resulting in high CO2 concentration; it is recommended that the user place the product in an outdoor ventilated place for 10 minutes. If the data is still high, the customer is advised to calibrate according to the user manual.

## Warranty

Temtop warrants the included detector for 1 year from the date of original purchase. The item can be exchanged or returned within 30 days if the defect is not caused by artificial damage.

| Item | Warranty Period |
|---|---|
| Detector | 1 year included |
| Accessories | N/A |

Before return or delivery for repair, please check if the following items are ready:

| | Detector & Accessories | Complete Package | Proof of Purchase* | Gift (if any) |
|---|---|---|---|---|
| Return | √ | √ | √ | √ |
| Exchange | √ | | √ | |
| Repair | √ | | √ | |

*Including invoice, order number and etc.

Temtop warranty does NOT include:
• Malfunction or damages caused by artificial damage or modification.
• Other deliberate damages.
• Damage caused by natural events.

# *Temtop*

**Elitech Technology, Inc.**
2528 Qume Dr, Ste 2
San Jose, CA 95131 USA
Tel: (+1) 408-898-2866
Sales: sales@temtopus.com
Website: www.temtopus.com

**Elitech Brazil Ltda**
R.Dona Rosalina,90-Lgara, Canoas-RS
92410-695,Brazil
Tel: (+55)51-3939-8634
Sales: brasil@e-elitech.com
Website: www.elitechbrasil.com.br

**Elitech (UK) Limited**
Unit 13 Greenwich Business Park,
53 Norman Road,London, SE10 9QF
Tel: (+44)208-858-1888
Sales: sales@elitecheu.com
Website: www.temtop.co.uk

V1.0
Made in China