Temtop

LKC-1000C
Air Quality Monitor
User Manual

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Factory Affecting Air Quality

Under normal circumstances, carbon monoxide is a colourless, odourless, tasteless gas that is insoluble in water. It is commonly found in poorly ventilated family rooms, gas produced by coal stoves or liquefied petroleum gas pipeline leakage or industrial production of gas, and the high concentration of carbon monoxide means that fresh air or ventilation is needed, otherwise it will lead to carbon monoxide poisoning, with mild headache, dizziness and transient syncope, while the heavier ones will rapidly enter into coma with pale or blue, or even death from respiratory paralysis.

Important!

★ When using the detector, avoid dropping it from high places or subjecting it to violent impacts.

★ Do not use detector in humid places or environments with strong odor to maintain accuracy.

★ Do not cover the vents of the detector and do not allow lint to enter the detector, as this will affect the accuracy of the detector.

★ Do not come into contact with organic solvents, which include silica gel and other adhesives, paintings, drugs, oil, and high-concentration gases.

★ 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.

★ 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.

Overview
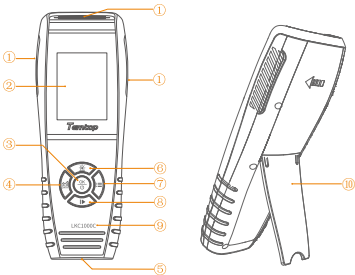
① Air Inlet/Outlet   ② LCD Screen   ③ Power/OK Button
④ Data Button   ⑤ USB Port   ⑥ Buzzer/Up Button
⑦ Menu Button   ⑧ Running/Hold/Down Button
⑨ Model   ⑩ Bracket

Specifications

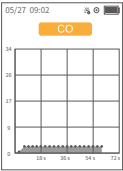|	
Model	LKC-1000C
Dimensions	177*65.5*32mm (6.9*2.6*1.2 in)
Battery Capacity	3000mAh
Battery Life	18h @ Backlight Level 2
Charging Output	DC5V, 1A
Display	TFT color LCD screen
Weight	About 190g
Operating Environment	Temperature: 0~50°C (32~122°F) Humidity: 0~90%RH
CO	Measuring range: 0-1000 PPM Resolution: 1 PPM

Note: The above data are from Temtop Laboratory.

1.Switch On/Off

Press and hold ☼ button for 2 seconds to turn on/off the detector.
After initialization, the instrument enters the default interface.
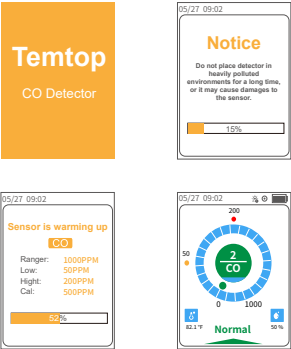
2.Detection

2.1 Data Button

Please click the 🖾 button to view the following interfaces.

CO Graph View

2.2 🔆 & ▶ Button

🔆	Click 🔆 to toggle 🔆 or 🔆.	🔆 :Turn off the alarm. 🔆 :Turn on the alarm.
▶	Click ▶ to toggle ◎ or ◎.	◎ :Start testing. ◎ :Stop testing.

3.Settings Menu

Buttons

Button	Setting Function
🔆	Up/Increase
▶	Down/decrease
🖾	Left
≔	Right
OK ⏻	OK

Click the ≔ button to enter the setup menu.
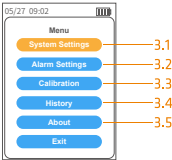
Exit: Clicking the "Exit" option will exit this page and return to the previous page.

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3.1 System Settings

Press the ☀ or ▶ button to switch up or down to System Setup and then press the ☼ button to enter the System Setup screen.
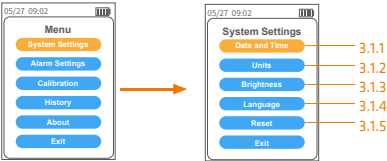
3.1.1 Date and Time (*Example Of Button Operation*)

Press the ☀ or ▶ button to scroll up or down and press the ☼ button to confirm.

Press the ◁ or ≡ button to switch to the item you want to set.

Press the ◁ or ▶ button to increase or decrease the current value.

Then press the ◁ or ≡ button to switch to save or exit, and press ☼ button to save the setting or exit the interface.
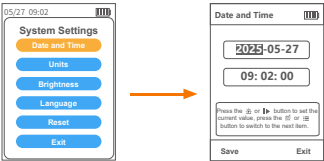
3.1.2 Units

In this screen, you can switch the temperature unit.

Note: After completing the setup it will return to the previous screen and you can return to the main page to check that the temperature units are set up properly. The unit generally defaults to ℉.

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3.1.3 Brightness

In this interface, you can set the screen brightness.

Note: The "Level" is divided into 1, 2, 3, 4, and 5.

3.1.4 Language

In this screen, you can set the desired language and the device will switch to your desired language immediately after completing the setting.

Note: The language usually defaults to English.

3.1.5 Reset

After entering the reset interface, you can reset the device.
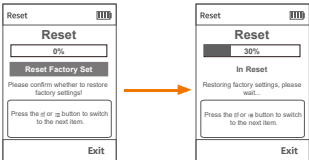
3.2 Alarm Settings

After entering the alarm setting interface, you can set the alarm value.
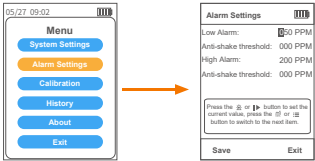
Note:
1) Anti-jitter threshold: To prevent gas concentration fluctuations near the low alarm value (high alarm value) from causing repeated entry into and exit from the low alarm (high alarm) state, the low alarm (high alarm) state will only be released when the gas concentration drops below the low alarm (high alarm) value minus the anti-jitter threshold.
2) High alarm - high anti-shake threshold > low alarm value; low alarm - low anti-shake threshold > 0.

3.3 Calibration

In this screen, you can calibrate CO, temperature, and humidity.
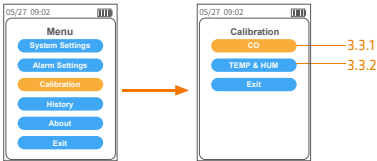
3.3.1 CO Calibration

Enter the CO calibration interface, where you can perform CO calibration.

Cal Zero:
1. Please ensure that you can perform zero calibration outdoors in fresh air.
2. The product must run stably for a period of time before zero calibration.
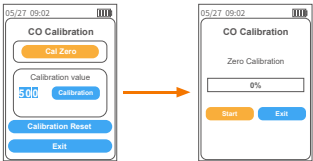
Calibration:

In the calibration chamber, introduce carbon monoxide (CO) and maintain it for a certain period of time until the concentration value stabilises (e.g. 500 ppm). Then set this value to 500 in the interface and continue with the calibration operation.
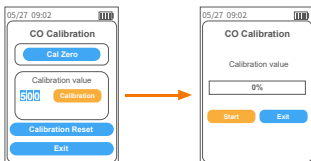
Calibration Reset:

After calibration reset is complete, the product will return to factory default settings.
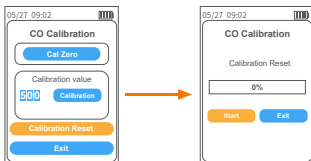
Note:
During calibration, do not perform any other operations until calibration is successful and you return to the previous menu interface.

3.3.2 TEMP & HUM Calibration

You can calibrate the temperature and humidity by modifying the "OFFSET" value.

Formula :
OFFSET(TEMP target value) = TEMP(target value) - TEMP(current value) + OFFSET(TEMP current value).
OFFSET(HUM target value) = HUM(target value) - HUM(current value) + OFFSET(HUM current value).
Example
If TEMP target value is 25.0, current value is 23.0, current value of OFFSET(TEMP) is -0.2.
Then "OFFSET(TEMP target value)=25.0-23.0+(-0.2)=+1.8".
If HUM target value is 36.0, current value is 33.0, current value of OFFSET(HUM) is +1.5.
Then "OFFSET(HUM target value)=36.0-33.0+(+1.5)=+4.5".

Increase "OFFSET(TEMP)" to +1.8°C
Increase "OFFSET(HUM)" to +4.5%rfh

3.4 History

In this interface, you will see the figure below.
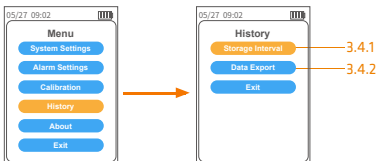
3.4.1 Storage Interval

In this interface, you can set the storage interval.
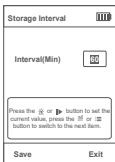
Note: Storage intervals are divided into 01, 05, 10, 30, and 60 minutes.

3.4.2 Data Export

In this interface, you will see the figure below.

```
Export                    [IIII]

    The instrument is testing
       whether the USB is
      connected correctly...
```

If connected to the computer successfully by the USB cable, the detector will pop up a tip USB connection successful; If not, it will remind you of the failure (See the figures below).

```
Export              ___

      USB connected
  successfully. During the
  data export process, please
  do not unplug the USB. If
  you want to exit the USB
  connection mode, press the
       HCHO  button!
```

```
Export              ___

    No USB connection
        detected!
```

After successful connection, the detector creates a removable storage device "TEMTOP" on the computer, which contains a folder named "HISTORY". This history folder contains a history file named after the time, e.g. "20230601". The history file is in CSV format and lists information such as date, CO, Temperature, Humidity, etc.(see figure below). Please save it to your computer for viewing.

DATE	CO (PPM)	TEMP	HUMI (%RH)	TEMPUNIT	LOW ALARM (ppm)	HIGH ALARM (ppm)
2025/6/1 9:01:40	1	26	61.4	C	50	200
2025/6/1 9:02:40	1	26	61.4	C	50	200
2025/6/1 9:03:40	1	26	61.4	C	50	200
2025/6/1 9:04:40	1	26	61.4	C	50	200
2025/6/1 9:05:40	1	26	61.4	C	50	200

Note: In the exported data, C represents °C and F represents °F.

After copying and viewing historical data, please press ☰ to exit (see figure below).

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Export

> Successfully exit the USB
> connection, return to the
> menu, please wait!
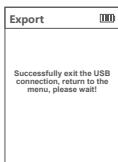
Note: USB connected successfully. During the data export process, please do not unplug the USB. If you want to exit the USB connection mode, press the ☰ button!

3.5 About

In this interface, you will see the figure below.

Menu

05/27 09:02

- System Settings
- Alarm Settings
- Calibration
- History
- About
- Exit

System Info

Model: LKC-1000C
Serial Number: TP2XXXXXXXXX
Firmware Version: VX.X
Brand: Temtop

Exit
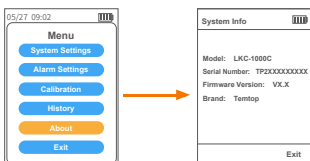
CO Concentration Levels

CO Concentration Levels	
PPM	Explanation
0-1	Normal background levels.
9	EPA/ASHRAE levels for living areas.
35	OSHA/NIOSH maximum 8 hr exposure limit.
125	ACGIH ceiling limit of exposure.
200	OSHA/NIOSH upper limit of exposure: mild headache, fatigue, nausea and dizziness within 2-3 hours.
1500	OSHA Imediately Dangerous to Life or Health (IDHL).

What's Included

LKC-1000C Detector x 1
Calibration Certificate x 1
User Manual x 1
USB Cable x 1

FAQ

Malfunction	Reason	Processing
Unable to start up	Low voltage	Charge promptly
	System lockup	Contact your dealer for repairs
	Circuit failure	Contact your dealer for repairs
No reaction to detected gases	Circuit failure	Contact your dealer for repairs
Display inaccuracy	Sensor expired	Contact your dealer to replace the sensor
	Long-term uncalibrated	Please calibrate promptly.
Time display error	The battery is completely discharged	Charge promptly and reset the time.
	Strong electromagnetic interference	reset the time
The instrument displays full scale	Sensor failure	Contact your dealer to replace the sensor

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.

V1.0
Made in China