



UNI-T A37 Carbon Dioxide Meter Monitor User Manual

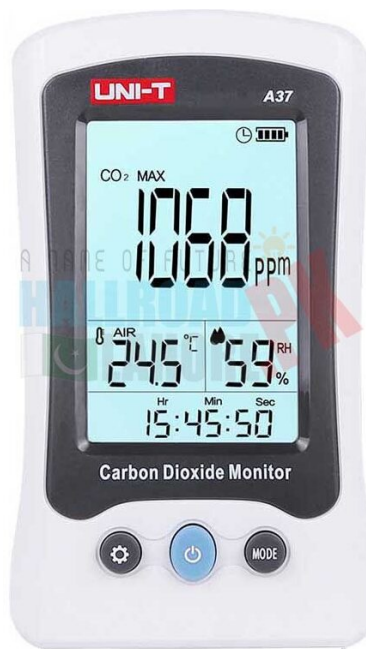
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UNI-T®

UNI-T A37 Carbon Dioxide Meter Monitor



Introduction

CO₂ is a naturally occurring gas that emitted at great levels by human activity and it is one of several greenhouse gases in our atmosphere. CO₂ only accounts for 0.03% of the fresh air. If you breathe high concentration CO₂, you may be at risk of carbon dioxide intoxication. Symptoms of carbon dioxide toxicity include headache, irregular heartbeat, nausea, unconsciousness, or even death. A37 is a CO₂ Monitor that measures CO₂ concentration, temperature and humidity. This monitor is widely used in homes, shopping malls, offices, vehicles, stations etc. Please read carefully and follow all warnings and precautions before using the device.

Open box inspection

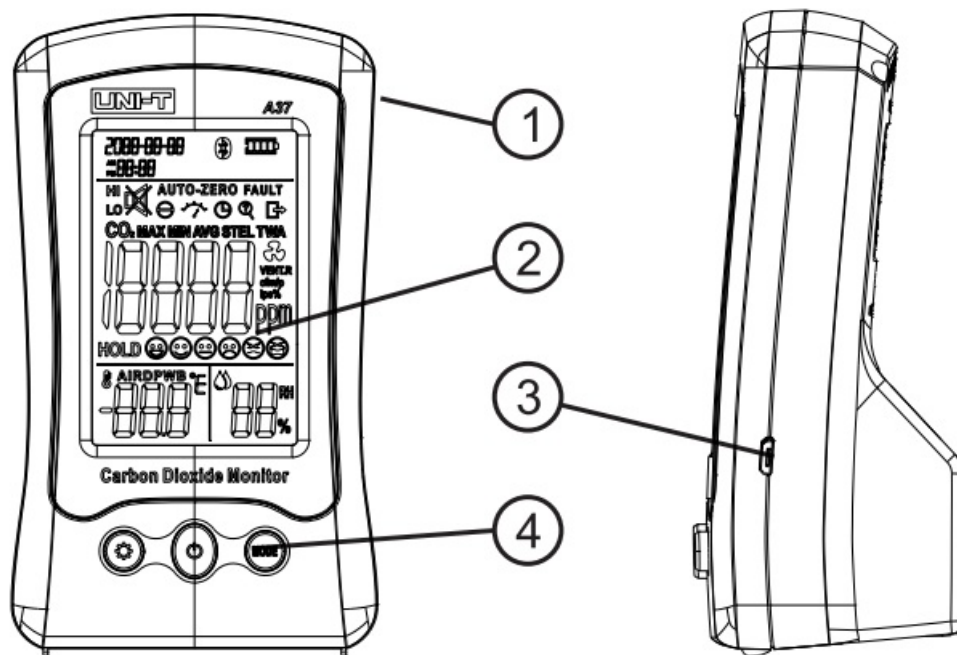
Open the box and take out the device. Please check whether the following items are deficient or damaged and contact your supplier immediately if they are.

- A37 CO₂ monitor——1
- Protective case ————— 1
- User manual——- 1 USB cable ——- 1

Safety information

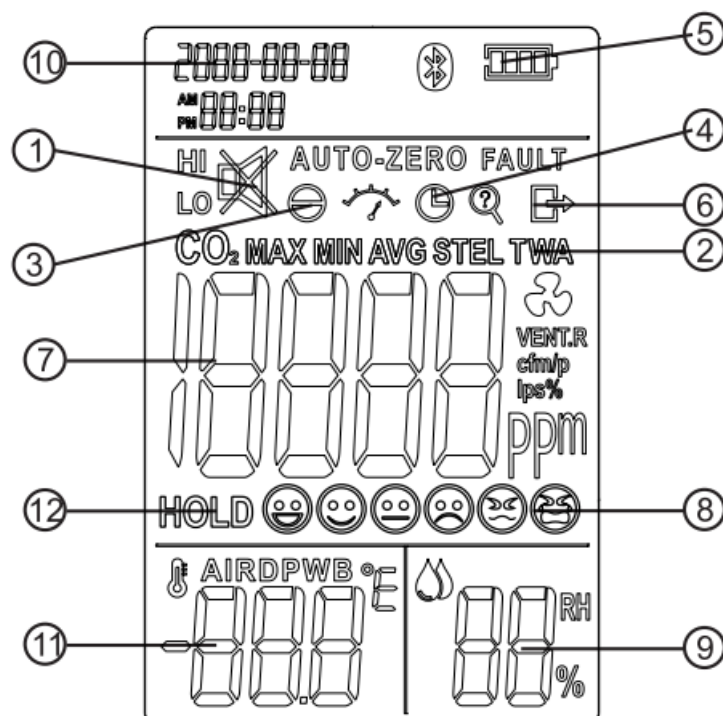
1. Check the device and its accessories for any damage or anomaly before use. Do not use the device if the cover is damaged, or has any other malfunctions.
2. Please follow the operation instructions.
3. Please do not open the device case and modify the internal circuit.
4. Do not store or use this device in high temperature, high humidity, flammable, explosive and strong electromagnetic environments.
5. Charge the monitor when = symbol is displayed.
6. Regularly use soft cloth and mild detergent to clean the case. Do not use abradant or solvent.
7. A37 complies with CE standards.
8. This monitor has ABC (Automatic Baseline Correction) function. Do not use this monitor in closed environment where CO₂ concentration remains relatively high.
9. Use specified adapter to charge the device. The adapter should comply with UL/FCC safety standards.

Structure



1. Case
2. LCD screen
3. USB port
4. Functional buttons

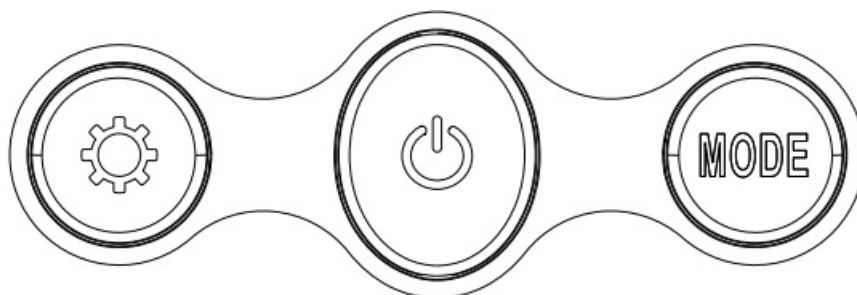
Symbols



No.	Indication	No.	Indication
1	Audio alarm ON/OFF	7	CO ₂ concentration
2	STEL/TWA/MAX /MIN/AVG modes	8	CO ₂ concentration grading emoticon
3	CO ₂ calibration	9	Relative humidity
4	Timing shutdown	10	Date/time
5	Battery status	11	Temperature
6	Exit calibration	12	Data hold

Operation instructions

Functional buttons




The following table shows the buttons functions in different modes.


Modes	Functions	Buttons
OFF	Long press: turn on/off the monitor	
	Long press: enter calibration mode	
Measure	Short press: turn on/off the backlight	
	Short press to switch temperature unit °C/°F	
	Long press to turn on/off audio alarm	
	Short press: cycle switch between HOLD/MAX/MIN/AVG/TWA/STEL	
	Long press: reset to zero	
	Long press: calibrate the CO ₂ concentration (outdoor fresh air)	
Calibration	Short press: increase the value	
	Short press : next parameter (double press to enter date/time calibration)	
	Long press: save	
	Short press: decrease the value	
	Short press: previous parameter	
	Long press: exit calibration	

Operations







CO2 measurement

- Long press  to turn on the monitor. It takes 120s to stabilize CO2 concentration. CO2 concentration, ambient temperature, relative humidity will be displayed on the screen. CO2 concentration value is refreshed every 3 seconds.

Note: if CO2>1 000ppm, buzzer goes off with red backlight flashing. The audio alarm's default setting is OFF,

long press  to turn on the audio alarm.

Concentration grading emoticons

	400ppm ~ 450ppm;
	450ppm ~ 700ppm;
	700ppm ~ 1000ppm;
	1000ppm ~ 2000ppm;
	2000ppm ~ 5000ppm;
	5000ppm以上;

Data

Short press MODE to cycle switch between HOLD/MAX/MIN/AVG /TWA/STEL values.

Symbol	Indication
HOLD	Data hold
MAX	Maximum value
MIN	Minimum value
AVG	Average value
TWA	Time weighted average
STEL	Short-term exposure limit

- TWA: The average exposure within the workplace to any hazardous contaminant or agent using the baseline of an 8 hour day or 40 hours week work schedule.
STEL: The acceptable exposure limit to a toxic or irritant substance over a short period of time (time-weighted average}, usually 15 minutes.
- Auto shutdown
The monitor will automatically shut down if there is no operation for 2 hours.
- Backlight
Please refer to Operation Instructions-Functional Buttons
- Audio alarm

Please refer to Operation Instructions-Functional Buttons

- Temperature unit

Please refer to Operation Instructions-Functional Buttons

- Battery

Charge the battery when c::1 is displayed on the screen. It takes 2~3 hours to fully charge the battery.

- 3.Calibration Date/time

Please refer to Operation Instructions-Functional Buttons to calibrate date/time.

- CO2




Note: CO2 function has been calibrated before delivery. If the value is greatly deviated from the standard, you can calibrate it by either methods below:

Automatic calibration

A37 has the built-in self-correcting ABC (Automatic Baseline Correction) algorithm to automatically adjust the base value.

- Turn on the monitor and leave A37 at a place where there is flowing fresh air for 3 days (powered by the adaptor)
- ABC function will automatically adjust and correct the CO2 standard value. Warnings: ABC function is always on, do not use this monitor in closed environment where CO2 concentration remains relatively high.

Manual calibration

- Turn on the monitor, leave it outdoor for 20 minutes
- Long press  +  until e appears on the screen. Calibration takes 10 minutes.  symbol disappears when calibration is done.

Note: It is suggested to calibrate the monitor in outdoor environments where there is air flow. Keep device away from animals, plants and human.

Specifications

Technical specifications

Function	Range	Resolution	Accuracy
CO2	400-5000 ppm	1ppm	±(5% of rdg+50ppm) from 400-2000ppm *1
Temperature	-10.0℃ – 50.0℃	0.1℃	±1℃ · 2
Humidity	0-99%RH	1%RH	(10%RH~ 90%RH) ±5%RH @25℃

1. Measure environment: 1 atm, ambient temperature and humidity
2. It may be influenced by heat emitted by the adaptor

General specifications

Specifications	Descriptions
Sensor	NDIR principle
ABC	Automatic baseline correction
Audio alarm	Buzzer
Visual alarm	Red backlight
Display	LCD screen
Low battery indication	v
Auto power off	v

Backlight	v
Operating environment	0°C- 50°C, 0%RH-85%RH
Storage environment	-20-c – 50-c , 0%RH-95%RH
Power supply	Built-in 3.7V DC rechargeable battery
Weight	195g
Dimension	75mm x 55mm x 130mm

IX. CO2 concentration and effects (only for reference)

Concentration	Effect
350-450ppm	Fresh air
350-1000ppm	Normal
1000-2000ppm	Turbid air, sleepy
2000-5000ppm	Headache, irregular heartbeat, nausea
>5000ppm	Unconsciousness or even death

Maintenance


- The maintenance and service of the device must be implemented by qualified professionals or the designated departments.
- Regularly use dry cloth to clean the cover. Do not use the detergent containing solvent composition
- To conserve battery, please turn off the device if do not being used for a long time.

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