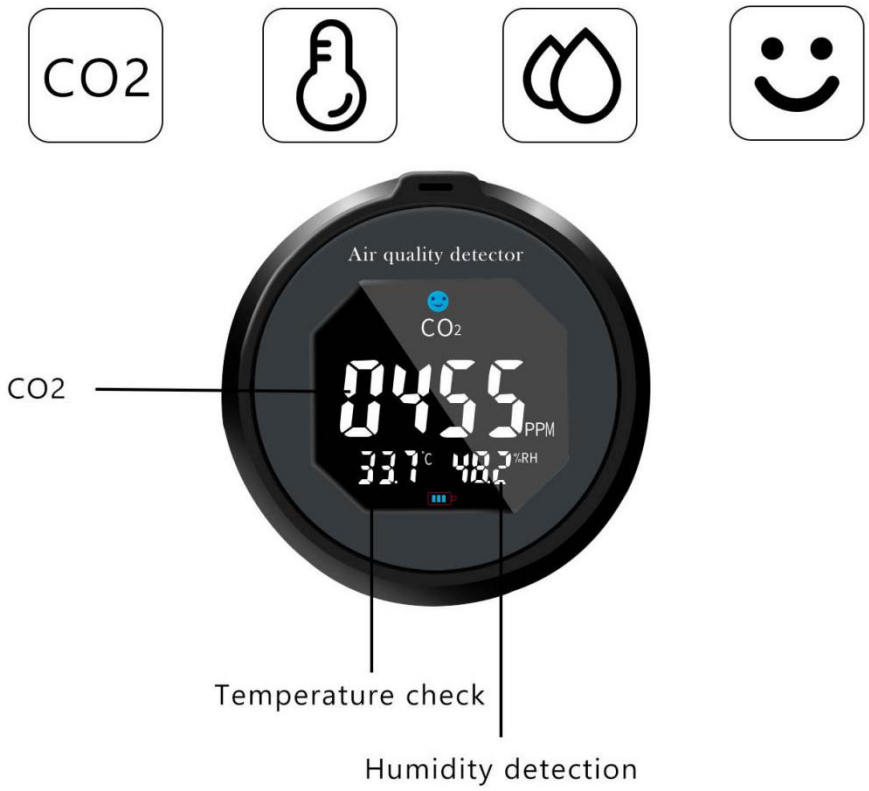
CO_2 Detectors TC-10A+



Features:

1. Comfortable Full color Display
2. Real-time display of carbon dioxide concentration, temperature, humidity
3. Dynamic photo that the indoor quality indicator system is good, normal, and poor
4. Easy-to-understand operation menu
5. High sensitivity NDIR CO_2 sensor
6. CO_2 sound and light alarm, with mute function
7. Fully adjustable high and low alarm values
8. Temperature unit conversion Celsius and Fahrenheit
9. Automatic and manual calibration
10. Optional battery version
11. Installation: desktop monitor
12. OEM and ODM are welcome

Product description:

1. Switch key: long press to switch on/off, short press to turn off the alarm tone.
2. SET setting key: short press to switch ℃/℉ unit.
   a. long press to set the alarm value, then press the switch key and SET setting key to add or subtract the value and exit automatically when finished.
   b. set the alarm value mode, press, and hold again to enter the 400PPM calibration (this requires a concentration between 380-420PPM in a ventilated environment to operate).

Specification:

Parameters	Specification
CO_2 Measurement range	370-9999
Resolution	1
Accuracy	±3％ of readings of ±40PPM
Temperature measurement range	-20-60℃
Humidity measurement range	0-99％
Temperature accuracy	±3℃
Humidity accuracy	±5％
Battery	Built-in 18500 lithium battery
Working hours	≥8 hours
Power	USB/5V
Weight	126g
Size	80*80*55mm

Air Class Reference

400-450PPM (Excellent): Typical outdoor air rating.

450-700PPM (Good) Typical value in a well-ventilated living space.

700-1000PPM (slightly polluted) poorly ventilated living environment

1000-2000PPM (moderate pollution) air rating that is not enough oxygen, sleepy, and enough to cause complaints

2000-5000PPM (heavy pollution) Stagnant, stale, stuffy air grade. Causes headache and drowsiness along with lack of energy, reduced concentration, rapid heartbeat, and mild nausea

5000PPM or more (severe pollution) Exposure may cause severe oxygen deprivation, resulting in permanent brain damage, coma and even death

Analysis of common problems

1. **Inaccurate data of carbon dioxide concentration in the air**
   Analysis (1): The concentration content of the environment itself is unstable, keep it placed in the same place for a period when measuring.
   Analysis (2): Carbon dioxide sensor sampling window has debris, dirt, airflow ventilation window is blocked by something.
   Analysis (3): Carbon dioxide sensor deviation, need to recalibrate the equipment.

2. **Temperature and humidity inaccuracy**
   Analysis (1): temperature and humidity sensor sampling window with debris, dirty analysis
   Analysis (2): Ventilation window is blocked by something

3. **Not turn on**
   Analysis 1: The battery is dead or damaged, powered by USB socket, if you can turn on the power and the power grid has changed, is the battery is dead, such as the power grid has not changed, that the battery has been damaged

Safety and Maintenance

1. Please do not place the instrument in a dusty or corrosive gas environment, so as not to reduce the life of the instrument or damage it.

2. When the battery icon of the display is empty or red, please charge it in time, and remove the battery when it is not used for a long time.

3. Do not store or use the instrument in high temperature, high humidity, flammable, explosive and strong electromagnetic field environment.

4. Please use soft cloth and neutral cleaning agent to clean the shell, do not use abrasive and solution to prevent corrosion of the shell and damage the instrument.