# 14 In 1 Air Quality Detector

## Tuya smart WIFI APP




**CO2(carbon dioxide), CO(carbon monoxide), HCHO (formaldehyde), TVOC (total volatile organic compounds), PM2.5, PM1.0, PM10, temperature and humidity detection, time, date, alarm clock, timer, stopwatch timer, 14in 1 function. 2.8-inch TFT display, Tuya smart WIFI APP, remote real-time monitoring data , can view the day, month, annual historical data.**

**Model: 2C010**

# 2C010 Product Description




**Fig 1:Display mode 1**
Landscape display 9 air parameters




**Fig 2:Display mode 2**
Vertical time display




**Fig 3:Display mode 3**
Vertical stopwatch display

## Regular use (when there is no WIFI connection)

1. Long press the "Power" button for more than 3 seconds to start the machine. After starting the machine, count for 60 seconds. After counting, the current air quality parameters will be detected and displayed. the display data is generally more accurate after 30 minutes of startup. Long press again for more than 3 seconds to shut down. **Fig 1:Display mode 1**:Landscape display 9 air parameters ; Free actumatic display such as **Fig 2**:Display mode 2 : Vertical time display ; Press the button three times to enter **Fig 3: Display mode 3** : Vertical stopwatch display.

2. Display brightness adjustment: Press the button 4 times to enter the display brightness adjustment mode [1-4, display: Brilliance Control]; Press the button once, the brightness is reduced by 1 level, press the button 3 times, the brightness is 4 level, the darkest level is 4 level. Press the button again to return to the brightest level 1.

3. To switch between Celsius and Fahrenheit, press the power switch to switch from Celsius to Fahrenheit, and then press the switch again to switch back to Celsius.

4. CO value greater than 50 alarm, 1 second sound once, CO value greater than 100, 1 second rapid sound 2 times, CO value greater than 200, 1 second urgent sound 3 times, CO content in the air more than 50PPM, long time (more than 1 hour) will cause harm to human body, more than 200PPM, will lead to human poisoning, please leave immediately.

5. If the PM2.5 reading is greater than 100, the rapid 4-sound alarm will be triggered, with one alarm sound every one second. If CO and PM2.5 exceed the standard, CO sound priority alarm .

6. Press "Power" button twice to turn on and off the sound alarm.

7. It takes 3-4 hours for the battery to fully charge, and generally works for 7-8 hours on a full charge. This product uses 18650, 2000MAH lbatery, built-in lithium batterv is not removable.
Use USB DC5V/1A for charging.
and TYPE-C USB for data cable.

8. For the first time unpacking, in order to read accurate data, the data will be read after 24 hours of continuous power operation; After starting, insert USB to charge and continue to work.
Test data is more accurate 24 hours later. Packing list includes: product, instruction, data cable.

9. Please forcibly blow air into the vent on the back of the product. The CO2 data will change and show that the maximum value is 1000-2000, indicating that the product works normally.
the higher the value, the worse the air quality.

10. PM2.5 data color warning: 0-50: green; 51-100: yellow; 101-150: Orange; Greater than 151: red. The larger the number, the more polluted the air.

11. If the data is too high and abnormal, shut down and restart the machine. Plug in the USB data cable, put it in the window in a well-ventilated environment, and work continuously for 24 hours. Then the internal da data will be cleared to zero and the data will be restored to normal.

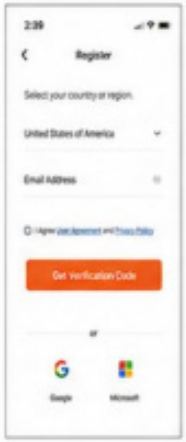



Fig 4




Fig 5




Fig 6




Fig 7




Fig 12




Fig 13

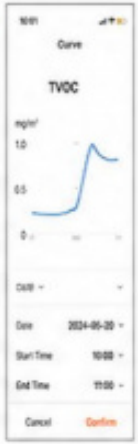



Fig 14

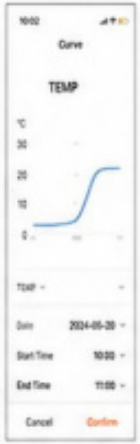



Fig 15




Fig 16




Fig 8




Fig 9




Fig 10




Fig 11

## Link Tuya smart WIFI APP

**1. Install the Tuya Smart APP** : Enter "Tuya Smart" in the "Application Market" of the mobile phone, find the "Tuya Smart" APP and click to install. Register an account after installation.

**2. In the WIFI signal area,** within 2 minutes after the machine is turned on, or press the button 5 times continuously, the WIFI symbol flashes quickly, indicating that the pairing link is being made.

**3. Open the mobile doodle smart APP** and click "Add device" as shown in Figure 4; Search for WIFI devices and find devices as shown in Figure 5; Device found and Click Add again; As shown in Figure 6, enter the WIFI name and password, and click Next, as shown in Figure 7, and as shown in Figure 8 after adding the pairing connection successfully. Click Finish again. Then

**Figure 9:** The WiFi symbol does not flash after the connection is successful.

**4. Tuya smart APP remote real-time monitoring data:** As long as the device is successfully connected to WIFI, the mobile phone installed Tuya smart APP can remotely monitor 9 air parameters in real time or view historical data, and can remotely control the corresponding functions of the device. APP display: PM2.5 data color warning: 0-50: green, excellent; 51-100: yellow, good; 101-150: orange, moderately polluted; > 151: Red, heavily polluted. The higher the number, the worse the air pollution. Figure 9.

**5. Tuya smart APP View historical data:** Click "Statistical curve" in Figure 9 to view the historical curve data of 9 air parameters, as shown in Figure 13,14. Click the corresponding CO2, HCHO, TVOC, PM2.5, PM10, PM1.0, CO, TEMP, HUMI; And click day, month, year, you can view the corresponding parameters: day curve, month curve, year curve, note: This curve is calculated by the average curve parameters, there may be errors with the actual data, it is normal.

**6. Vertical time display:** When the device is installed, it will automatically display as shown in Figure 2. When the Doodle smart APP is successfully linked, the time and calendar parameters will be synchronized with the data on the mobile APP without additional setting. This time is 12 hours.

**7. Alarm Settings:** When the display is erected, as shown in Figure 2, click the menu in Figure 9 , as shown in Figure 10, click 1 and 2 respectively. As shown in FIG. 12, select 10:00 and 10:30 respectively, then press "OK" to complete the alarm clock setting. On the Doodle Smart APP, the alarm clock 1 will display 600 minutes, and the alarm clock 2 will display 630 minutes, as shown in FIG. 10;

This alarm clock is 12 hours. Time to set the alarm time will alarm 30 seconds, The alarm clock symbol will flash when the alarm clock alarms, or press the button twice to cancel the alarm sound.

**8. Vertical stopwatch display :** When shown in Figure 2, press the button three times consecutively to enter the display in Figure 3;

**9. Vertical stopwatch timing :** As shown in Figure 3, press the button once to start the forward timing, the longest timing is 9 hours, 59 minutes and 59 seconds, press the button once to pause the timing, press the button again to continue the timing, press the button twice to cancel the timing.

**10. Set Vertical display timer :** As shown in Figure 3, long press the 1 second switch button, then the middle stopwatch H position will flash, press the open key to select the number of hours from 1-9, similarly, long press 1 second, the Min position will flash, you can set the number of minutes and seconds. For example, if the setting time is 1 hour, 30 minutes and 30 seconds, and no action is taken for 6 seconds, the setting is complete. 91 is displayed in the upper right corner , indicating 91 minutes. Thirty seconds counts as one minute. Or it's easier to set up in the Doodle Smart APP. As shown in Figure 10, Click to enter Figure 11, move the screen up and down, select 91 points, press "OK", then the setting is complete. Press the button once to start the timer countdown, press the button once to suspend the timing, press the button twice to cancel the timing, and reset the timing time after canceling. Countdown to the set time will automatically alarm for 30 seconds, alarm clock symbol will flash, press the button twice to cancel the alarm sound.

11. Set the Fahrenheit and Celsius degrees: Click in Figure 9, Figure 15 and 16 to set the Fahrenheit and Celsius degrees respectively.

12. Set alarm sound switch: Click in Figure 9, as shown in Figure 15, you can set the sound on/off.

## Product Parameters

| parameter | |
|---|---|
| CO2 Detection Range | 400-6000 PPM, ±50 ±15%PPM |
| CO2 Detection Sensitivity | 1PPM |
| TVOC Detection Range | 0-2.0 mg/m³ |
| HCHO Detection Range | 0-0.6 mg/m³ |
| PM2.5 Detection Range | 0-1000 ug/m³, |
| PM2.5 Detection Sensitivity | 1 ug/m³ |
| PM1.0 Detection Range | 0-1000 ug/m³ |
| PM10 Detection Range | 0-1000 ug/m³ |
| CO Detection Range | 0-500 PPM, |
| CO Detection Sensitivity | 1PPM |
| Temp MeasurementRange | -10~50 ℃ |
| Temp Measurement Accuracy | ±2℃ |
| HumidityMeasurement Range | 0%~99%RH |
| HumidityMeasurementAccuracy | ±3%RH |
| Charging Mode | DC5V 1A TYPE-C USB interface |
| Battery | Built-in lithium battery 2000mAh |
| Working Current | 290mA |
| Working Voltage | 3.7V |
| Dead Weight | About 160g |

**In order to keep the historical data of the Doodling APP from being lost, please ensure that the product's power supply continues to work normally (plug in the USB cable to charge) and the WIFI signal cannot be disconnected (the product displays the WIFI symbol without flashing).**

## Attention

Please pay attention to the following conditions before using the air detector
This product has a built-in lithium battery, please use standard DC-5V charger
When operating, the air inlet and outlet can not be blocked to avoid numerical deviation.
Do not use it frequently in a dusty environment with poor air quality to prolong its service life.
Do not use this device in high temperature, high humidity, dirty places or near strong magnetic fields to avoid inaccurate values or internal circuit failure of it.

The device is available within the temperature range of -10°C~50°C.

Store the device and accessories in the temperature range of -20°C~55°C. When the ambient temperature is too low or too high, it may cause equipment failure.

Please avoid exposure, rain or moisture to the equipment and accessories, otherwise it may cause malfunctions or risks of display screen, battery, case and circuit.

Do not use sharp objects like pins into the air inlet, outlet or charging space to avoid the damage of device.

- When the customer starts to take out the box, there is alcohol odor gas in the box, the factory should be cleaned with alcohol when packaging, and it should be taken out and put on the window with good air ventilation for 1-2 hours, the data will return to normal value.
- TVOC sensors will be affected by smoke, alcohol, formaldehyde, perfume and other odor interference, after a period of time to return to normal.
- Zero operation: put the device on the edge of the window with good air ventilation, restart the counting display for 10-18 seconds, shut down, restart again, and clear the data to zero operation, will be normal.

**This product has the detection and alarm function, but can not prevent CO and other dangerous substances Leakage, so the accident caused by the loss, we do not assume responsibility.**