

sisco

WiFi Air Quality Sensor

Tuya Smart APP  WiFi Intelligent



11 parameter detection + 4 practical functions

User Manual

MT15 / MT29 Product Description



Fig 1:Display mode1

Date & Time + 11 air parameters



Fig 2 :Display mode2

Date & Time + Alarm Clock + Timer



Fig 3 :Calibration

120s countdown calibrated

General use (key operation)

1. Press and hold the "Power button" for more than 3 seconds -- power on, count 60 seconds after power on, after counting it will start to detect and display the current air quality parameters, such as Fig 1: 11 air parameters are displayed;
2. Short press the "Power button" for **1 time** -- In Fig 1, you can switch the temperature unit (Celsius / Fahrenheit); In the interface of Fig 2, you can turn on the timer or timer function.
3. Press the "Power" button **2 times** -- In the interface of Figure 1, you can turn on/off the buzzer; In the interface of Fig.2, you can clear the timer or the timer; When the timer/ alarm is sounding, you can prioritize to turn off its alarm sound.
4. Press "Power Button" **3 times** in a row -- enter/exit the interface of Fig 2: Time & Alarm Clock & Timer/Timer display;
5. Press "Power button" **4 times** -- the instrument enters 120 seconds parameter calibration.
6. Press "Power button" **5 times** -- make the device enter WiFi pairing state/reset WiFi to enter pairing state (the device WiFi icon blinks with a delay of about 5s)

Product Introduction

1. The first time out of the box, in order to read accurate data power on continuous work 24 hours after reading the data; boot up after inserting USB charging continuous work. 24 hours after the test data more accurate. In addition to the first time out of the box the general boot after 30 minutes to display data more accurate.
2. Battery fully charged takes 3-4 hours, generally fully charged can work 6-7 hours. This product uses 2000mah lithium polymer battery charging using USB DC5V/1A, data cable using TYPE-C USB interface.
3. Simply determine if the unit is working: please blow into the vent on the side of the product, the CO₂ display will rise significantly, which indicates that the product is in normal working condition. In general, the higher the value of each parameter, the worse the air quality.
4. Parameter alarm default thresholds (after connecting WiFi, you can set the alarm thresholds for each parameter by yourself in Graffiti APP): CO₂ value is greater than 1600ppm; CO value is greater than 161ppm; PM_{2.5} value is greater than 116 $\mu\text{g}/\text{m}^3$; HCHO value is greater than 0.31 mg/m^3 , it will trigger 3 groups of rapid buzzer alarms, with one-second intervals between the alarm sounds once. At the same time, the parameter data corresponding to the interface of Fig 1 will make a color change warning according to the actual situation (green - yellow - orange - red)
5. AQI (to integrated particulate matter) value color warning: 0-50: green; 51-100: yellow; 101-250: orange; greater than 251: red. The larger the data, the more serious the air pollution.
6. If the data is too high and abnormal, please turn off the machine and then turn it on again. Plug in the USB cable, put it in the window under a well-ventilated environment, and keep working for 24 hours, then the internal data will be cleared to zero, and the data will return to normal.
7. The packing list includes: product, bilingual manual, Type-c data cable.



Fig 4



Fig 5

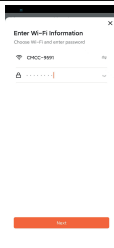


Fig 6

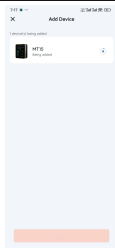


Fig 7

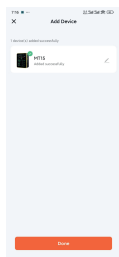


Fig 8



Fig 9

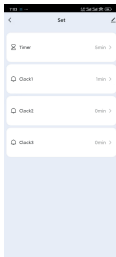


Fig 10

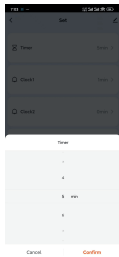


Fig 11



Fig 12

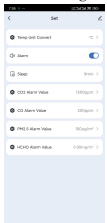


Fig 13

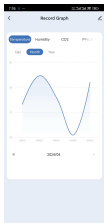


Fig 14



Fig 15



Fig 16

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 linked to WIFI successfully, the phone installed Graffiti Intelligent APP can remotely monitor 11 air parameters in real time or view historical data, and can remotely manipulate the corresponding functions of the device. **APP display:** AQI data color warning: 0-50: green, excellent; 51-100: yellow, mild pollution; 101-250: orange, moderate pollution; greater than 250: red, heavy pollution. Bigger data means more serious air pollution, as shown in Fig 9.

5. **Tuya smart APP View historical data:** Click "Statistical curve" in Figure 9 to view the historical curve data of 10 air parameters, as shown in Figure 13. Click the corresponding CO2, HCHO, TVOC, CO,

PM2.5, PM10, PM1.0, PM0.3, TEMP, HUMI; And click day, month, year, you can view the corresponding parameters: day / month / year curve.

Note: This curve is calculated by the average curve parameters, there may be errors with the actual data, it is normal.

6. Date & time display: When the device is successfully connected to the Doodle Smart APP (WiFi), the time and calendar parameters will be synchronized with the data on the mobile APP without additional settings. The date and time are shown in both Fig 1 and Fig 2 interface, this time is 24-hour system.

7. Alarm Settings: Alarm clock interface is shown in Figure 2, click on the menu  in Figure 9, such as Figure 10, respectively, click on  1 and  2, such as Figure 12, respectively, select 10:00 and 10:30, and then press "ok" then the alarm clock setup is complete, Graffiti Smart APP alarm clock 1 will show 600 minutes, alarm clock 2 shows 630 minutes, such as Figure 10; This alarm clock is a 12-hour system. When the time comes to the set alarm time, the alarm clock will alarm for 30 seconds, the alarm clock symbol  will flash when the alarm clock alarms, or press the button twice to cancel the alarm sound.

8. Timer display: In Figure 1, press the button 3 times to Figure 2;

9. Timer Timing: When shown in Fig 2, press the key once to start the positive timing, the maximum time is 9 hours 59 minutes 59 seconds, press the key once to pause the timing, press the key again to continue the timing, press the key twice to cancel the timing.

10. Setting the Timer: In Figure 2 display, long press 1 second switch button, then the center stopwatch H bit flashes press the power button from 1-9 to select the number of hours, similarly, long press 1 second, Min bit flashes, you can set the number of minutes and seconds.

For example, set the time for 1 hour 30 minutes and 30 seconds, this time 6 seconds without action, then the setting is complete, or set in the Graffiti Smart APP is more convenient.

As shown in Figure 10, Click  to enter Figure 11 move the screen up and down, select 5min, 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, Fig 14 to set the Fahrenheit and Celsius degrees respectively.

12. Set alarm sound switch: Click  in Figure 9, as shown in Fig 14 you can set the sound on/off.

13. Setting alarm values: Click  in Figure 9, as shown in Fig 15 you can can set alarm values for parameters such as CO₂, CO, PM_{2.5} and HCHO formaldehyde.

14. Setting the device sleep time: Click  in Figure 9, as shown in Fig 16 you can set the hibernation time.

CO₂(Carbon Dioxide), CO(Carbon Monoxide), HCHO (Formaldehyde), TVOC(Total Volatile Organic Compounds), PM_{0.3}, PM_{1.0}, PM_{2.5}, PM₁₀, Temperature and Humidity Detection, AQI(dominated by composite particulate matter), Date & Time, Alarm Clock, Timer, Timer, 15 in 1 function.

2.8-inch TFT display, Graffiti Smart WIFI APP, remote real-time monitoring data, you can view the detection parameters of the day, month, year historical data.

Product Parameters

parameter	
CO ₂ Detection Range	400-5000PPM , $\pm 50 \pm 5\%$ PPM
CO ₂ Detection Sensitivity	1PPM
CO Detection Range	0-999PPM , ± 10 PPM
CO Detection Sensitivity	1PPM
TVOC Detection Range	0-9.99mg/m ³ , ± 0.05 mg/m ³
HCHO Detection Range	0-1.99mg/m ³ , ± 0.05 mg/m ³
PM _{2.5} Detection Range	0-999ug/m ³ , ± 10 ug/m ³
PM _{2.5} Detection Sensitivity	1ug/m ³
PM _{1.0} Detection Range	0-999ug/m ³ , ± 10 ug/m ³
PM ₁₀ Detection Range	0-999ug/m ³ , ± 10 ug/m ³
PM _{0.3} Detection Range	0-999ug/m ³ , ± 10 ug/m ³
Temp MeasurementRange	-10 ~50 °C
Temp Measurement Accuracy	$\pm 2^{\circ}\text{C}$
Humidity Measurement Range	0% ~99% RH
HumidityMeasurementAccuracy	$\pm 5\%$ RH
Charging Mode	DC5V/1A TYPE-C USB interface
Battery	Lithium polymer battery 2000mah
Working Current	260mA
Working Voltage	3.7V
Dead Weight	About 160g

Environmental Pollution Index Reference

	Green	Yellow	Orange	Red	Standard sources
AQI	0-50	51-100	101-250	>251	GB 3095-2012
CO₂ PPM	0-699	700-999	1000-1599	>1600	GB37488-2019
HCHO mg/m ³	0-0.08	0.081-0.1	0.101-0.3	>0.31	GB/T18883-2002
TVOC mg/m ³	0-0.5	0.501-1	1.001-1.6	>1.6	GB/T18883-2002
CO PPM	0-30	31-50	51-160	>161	SYT6503-2022
PM_{2.5} g/m ³	0-35	36-75	76-115	>116	GB3095-2012
PM₁₀ g/m ³	0-50	51-150	151-250	>251	GB3095-2012
PM_{1.0} g/m ³	0-15	16-35	36-75	>76	GB3095-2012
PM_{0.3} g/m ³	0-100	101-1000	1001-10000	>10001	GB3095-2012

Attention

This product belongs to the household detector, please do not use it in professional testing scenarios such as laboratories and professional data testing comparison.

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 $-10^{\circ}\text{C}\sim 50^{\circ}\text{C}$
Store the device and accessories in the temperature range of $-20^{\circ}\text{C}\sim 55^{\circ}\text{C}$.
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 dangerous substances Leakage, so the accident caused by the loss, we do not assume responsibility.



search "TuYa Smart" to
download
APP OR scan
the code to download "
Smart
Life" APP.