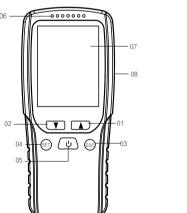
Ouality Monitor

Instructions for DM106A Air

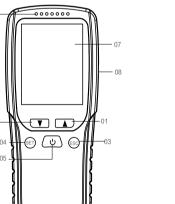
- 2. HCHO formaldehyde test concentration range: 0 ~ 1.999mg / m³
- 4. Sound alarm
- 5. Large screen color LCD display
- 6. Temperature and Humidity test
- 7. I ow battery alarm
- 8. Date and Time display
- 10. Screen: If the device has not been operated
- automatically.



Product function

- 1. Support PM2.5 / PM1.0 / PM10
- 3. TVOC test concentration range: $0 \sim 9.999 \text{mg/m}^3$

- 9. Built-in high-capacity lithium battery
- for 5 minutes.it will enter the black screen protection automatically, if there is no operation within two hours, it will close



- 01. Up button:up function operation
- 02. Down button:down function operation
- 03 FSC button:exit / cancel
- 04. SET button: Press the SET button to enter the setup mode / switch / select
- 05 Power button: On / off_calibration_confirm
- 06 Air convection hole 07. LCD display screen
- 08. USB charging port

-What are included

DM106A Main Unit*1 Charging cable*1 Manual*1

-Operation description

- ① PM2.5 display area, showing the current (1) Turn on: press the power button for 3 PM2.5 value 2 PM1.0 display area, showing the current seconds, DM106A is automatically turned on PM1.0 value. the LCD light up. (3) Formaldehvde display area, showing the
- current HCHO value. Formaldehyde detection (2) Shutdown: Hold down the power button for needs 200 seconds to warm up. 3 seconds in the boot state it will be shut When DM-106A is turned on .it will automatically enter into preheat
- (3) Interface 1: Click Power button to switch the (200 seconds countdown time) 4 Temperature display area, showing the interface from 1 to 2 current temperature, deviation ±1°C.

See below:

 $\widehat{1}$

(<u>2</u>)

1.0=92 PM10=2

③ — 0.002 | 0.265 | 6

④ — **33%** — ⑦

(5) PM10 display area, showing the current

PM10 value

200 seconds to warm up.in the "200 Interface 1: seconds warm up" time the LCD displays: --- when the "warm up" time pass the TVOC value will display on the screen.

7) The humidity display area will show the current humidity. 8 Battery symbol, power indication and charging

(6) Toluene display area, showing the current

TVOC value. Toluene detection also needs

(4) Interface 2: Click "ESC" button to switch the Interface from 2 to 1.

See below



Temperature range: -20 to 70°C Humidity range: 20% to 90%

Temperature and humidity livable environment: Temperature: 15-25°C Humidity: 45-65% RH

(5) Press the SET button to enter the setup interface.

See below:

Interface 3:



1)Press the SET button to select the content which should be placed in a relatively stable area of air you want to set, press the OK button to enter the flow, so that the detection can be accurate. setting (The word color you are setting is red). 4. Before you use the device to test the HCHO Press the Up / Down button to adjust the datas. and TVOC in the bedroom, living room, 2)Press the power button to save the settings. cloakroom and other space it is better to seal Press ESC will not save (Press the ESC button the windows, doors for 24 hours and then test. twice to return to the main interface). in addition, the average content of air is derived

ormaldehyde calibration nethod :

manual calibration before working.

Common problem Put the device into a place of good air quality let it aside for 5-10 minutes. Double click the 1 O: the test value has been 0, spra power button when the device stay at interface 1

The Initial values of Formaldehyde and spices, perfume, paint, cigarettes, air freshener TVOC are 1.999 and 9.999 .the device needs alcohol and other chemical pollutants when testing, so as not to damage the sensor.

data in the room.

from the average value of multiple points test

perfume will rise?

Please re-calibrate outdoors, avoid

Precautions:

1. Any sensor will be subjected by certain Our products work in the form of outdoor external substance when working so please kee formaldehyde-free air sampling as a benchmark it away from Alcohol, Perfume, Chemical volatile and then get indoor air formaldehyde content a gases, smoke and so on when you check. a comparison, so the new machine products for 2. Indoor air is circulating ,the gases go into a long time not used, the detection of sensor vent are different at different time, the environmental temperature changes need to amount of formaldehyde in the air may be also change First calibrated and then tested, the different. So It is normal that the detection value value of this calibration for the subsequent is floating up and down. detection of the accuracy of a great relevance. 3. Avoid the fan, heater and other strong directly Calibration environment must avoid spices. winds blown vent hole interference test results of perfumes, paint, cigarettes, air fresheners, the accuracy when use the device. The product alcohol and other chemical pollutants, so as not

to damage the sensor.

3 O: Why PM2.5 readings with the nuhlished value on the site is not the same?

Because the location and conditions of the test

is difficult to reconcile with the weather station. the weather station in the city there are several sampling points, each sampling point measured data are also very different, the sampling point of the location is strictly required; height 3 to 30 meters, air circulation, can not be close to the chimney, furnace and other obvious sources of pollution. And there are no high-rise buildings. trees or other obstructions that can impede the

2 O: Why do I need to calibrate?

PM2.5 data are changing all the times, with the air, wind, humidity and other environmental factors change, in the room smoking, cooking fumes, car exhaust emissions, coal, chimney, furnace Such as pollution sources will change the PM2.5 value of this area, resulting in differences in the detection data.

5 O: Why is the product sounding when working?

As PM2.5 detection need to collect a lot of mobile air, in order to ensure accurate detection of the fan needs strong operation, so a little sound is normal.

6 O: How much range of detection of formaldehyde concentration detector, how many square

1. The principle is less than 50m3 .the room should be set 1 to 3 points:50 ~ 100m3 Set 3 to 5 points: More than 100 m3 at least 5 points. On a diagonal or plum blossom evenly distributed. 2. Sampling points should avoid the ventilation. from the wall distance greater than 0.5m. 3. The height of the sampling point: in principle. consistent with the human breathing. Relative flow of ambient air around the instrument. height of $0.5m \sim 1.5m$ between.

4 O: Why is the PM2.5 test value O: What is the standard for changing? `formaldehvde (HCHO)?

> 8 O: What is the standard for total volatile organic compounds

A: ≤ 0.10 mg / m3 ("indoor air quality

standards" GB / T18883-2002)

 $A: \le 0.6 \text{mg} / \text{m} 3 \text{ (GB } / \text{T } 18883 - 2002 \text{ and }$ GB 50325-2001 Class II civil construction

9 O: What is the standard for fine particulate matter (PM2.5)?

grade	average value (standard)
Good	0~12
Medium	12~35
Unhealthy for sensitive groups	35~55
Unhealthy	55~150
Very unhealthy	150~250
Hazardous	250~500

Technical indicators

-Power supply Battery capacity: 2000mAh polymer lithium

Input: 5.0v / 1000mA

-Formaldehyde detection

Product weight: 220g Test : formaldehyde in the air Detection range: 0 ~ 1.999mg / m³ Safety and maintenance: Detection Technology: Semiconductor sens

-TVOC detection

Detection method: concentration (per liter)

Detection range: 0 ~ 999ug / m³

2. Do not use the product in an environment Test: TVOC (containing benzene) Detection range: 0.000 ~ 9.999mg / m³ Detection time: 5 minutes Detection Technology: Semiconductor

Sensing Technology Sampling technology: diffusion collection Concentration unit: mg / m³

-PM2.5 / PM1.0 / PM10 detection

Detection principle: Laser scattering princip Number of test particles: 2.5um, 1.0um, 10um Measurement of particle mass: PM2.5, PM10 Detection time: 3 seconds

7. Do not let the cloth cover on the instrument.

Charging temperature: -10 °C ~ 45 °C

Adopt Method: diffuse collection 1. Do not place the product in a concentration

Concentration unit: mg / m³

that exceeds the normal temperature and humidity, which will affect the measurement accuracy

3. Do not disassemble the internal unit and the

may damage the product.

-Using Environment

Relative humidity: 20% to 85%

Product Size: 164 * 69 * 44mm

-Size

LCD size: 2.8 inches

Atmospheric pressure: 86Kpa ~ 106Kpa

of chemical contaminated environment and

Detection temperature: -10 °C ~ 45 °C

Storage temperature: -20 °C ~ 50 °C

4. Cleaning is simply wiping with a dry cloth. (Do not use wet cloth)

5. Do not subject the product to strong shock and vibration. (Such as throwing on the

6. Do not breathe directly through the vent hole or block the detection hole, which will interfere with the normal work of the product.