

Mini Environment Meter  
Series

# Mini PM0.3/PM2.5

# Particle Counter



Please read this manual before switching the unit on.  
Important safety information inside.



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## 1. Introduction

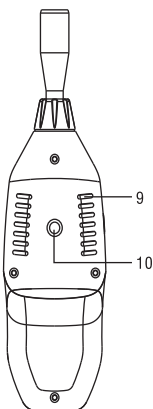
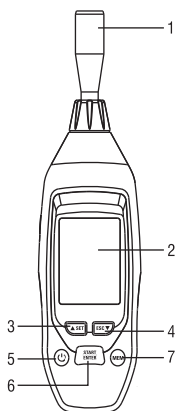
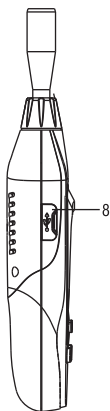
Thank you for purchasing this Mini Particle Counter, This Mini Particle Counter with 2.0" color TFT LCD display provides fast, easy and accurate readings for particle counter, particle mass concentration, Air temperature and relative humidity. The series products is a delicate and practical hand-held instrument, the real scene and time can be displayed on color TFT LCD. Any memory readings can be recorded in meter. It Would be the best instrument for environment protection and energy save.

## 2. Features

- 2.0" TFT Color LCD display
- 220\*176 pixels
- Simultaneously measure PM2.5 and PM0.3
- Air temperature and humidity
- Real time clock display
- Analog bar indicator
- Auto Power Off

### 3. Front Panel and Bottom Description


- 1-Particle Sensor
- 2-LCD Display
- 3-Page up and Setup button
- 4-Page down and ESC button
- 5-Power ON/OFF button
- 6-Measure and Enter button
- 7-Memory View button
- 8-USB charge interface
- 9-Air-bleed hole
- 10-Bracket fixing hole



## 4. Specifications

<b>Particle Counter</b>	
Channel	0.3, 2.5um
Mass Concentration	PM0.3:0~ 2000ug/m <sup>3</sup> ; PM2.5:0~ 2000ug/m <sup>3</sup> ;
Resolution	1ug/m <sup>3</sup>
Particle Concentration	PM0.3:0~99999999Pa/CF; PM2.5:0~99999999Pa/CF;
Particle Unit	Pa/L,Pa/0.1CF,Pa/CF
<b>Air Temperature Measure</b>	
Air Temp Range	0 to 50°C/32 to 122°F
Resolution	0.1°C/°F
Basic Accuracy	±1°C/2°F
Humidity Range	0 to 100%RH
Resolution	0.1%RH
Basic Accuracy	±5%RH @0 to 20%RH and 80 to 100%RH ±3.5%RH @20 to 80%RH

## 5. Power on or Power off

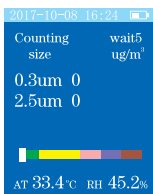
On the power off mode, press and hold  button, until the LCD is on, then the unit will power on.

On the power on mode, press and hold  button, until the LCD is off, then the unit will power off.

## 6. Measurement Mode

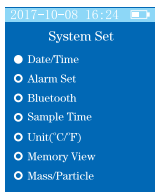
On the power on mode, you can press the "START/ENTER" button to start measuring PM2.5 and PM0.3, the top left corner of the LCD display "Counting", the top right corner of the LCD display count down, LCD main display PM2.5 and PM0.3 data and temperature & humidity readings are at the bottom of LCD.

Press the button again to stop the measurement, the top left corner of the LCD display "Stopped", The LCD display the last measurement data. Data will be automatically saved to the instrument memory, which can store up to 5000 data points.



## 7. Setup mode

Powering on the instrument, Long press button "▲ SET" to enter into the system setup mode when not do measurement operation, as shown below:



Press the "▲ SET" button and the "▼ ESC" button to select the menu option needed, then press button "START/ENTER" to enter into the appropriate settings page.

### 7-1.Date/Time setup

After entering into Date/Time setup mode, press "▲ SET" button and "▼ ESC" button to select the value, press "ENTER / SELECT" button to set next value. After finished the setup, please press button "▼ ESC" to exit time setting mode and returns to the system settings mode.



### 7-2.Alarm setup

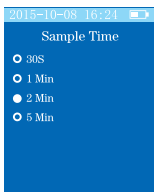
Press button"▲ SET" and button "▼ ESC" to activate or deactivate alarm function.





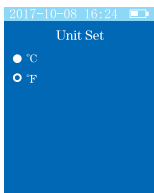
### 7-3. Sample Time

Press "▲ SET" button and the "▼ESC" button to select the sampling time, sampling time can be select by 30s, 1min, 2min or 5min.



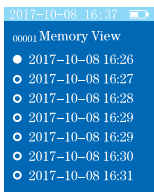
### 7-4. Unit(°C/°F)setup

Press "▲ SET" button and the "▼ ESC" button to select the temperature unit (°C/°F).



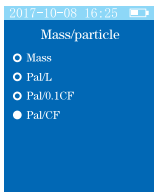
### 7-5. Memory View

Press button"▲ SET" and button"▼ ESC" to select storage catalog, press "START/ENTER" button to view data in selected storage catalog. 5000 sets of data can be stored in the instrument.



### 7-6.Mass/Particle setup

Press "▲ SET" button and the "▼ ESC" button to select the mode particle concentration and mass concentration mode.



### 7-7.Auto Power Off setup

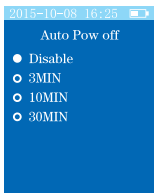
Press button "▲ SET" and button "▼ ESC" to set the auto-off time.

Disable: Power off function is deactivated.

3MIN: Automatically shutdown in 3 minutes without any operations.

10MIN: Automatically shutdown in 10 minutes without any operations.

30MIN: Automatically shutdown in 30 minutes without any operations.



## 8. Shortcut keys

Press the "MEM" button to quickly enter the storage data directory view, select the directory button to view the specific data.

## 9. Product Maintenance

- Maintenance or service is not included in this manual; the product must be repaired by professionals.
- It must use the required replacement parts in maintenance.
- If the operating manual is changed, please instruments prevail without notice.

## 10. Cautions

- Do not use in over dirty or dusty environment. Inhalation of too many particles will damage the product.
- To ensure the measure accuracy, please do not use in an over fogged environment.
- Do not use in explosive environment.
- Follow the instructions to use the product, privately take apart the unit is not allowed.



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