

# User Manual



## EPC370

### Mini Particle Counter





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## 1. Introduction

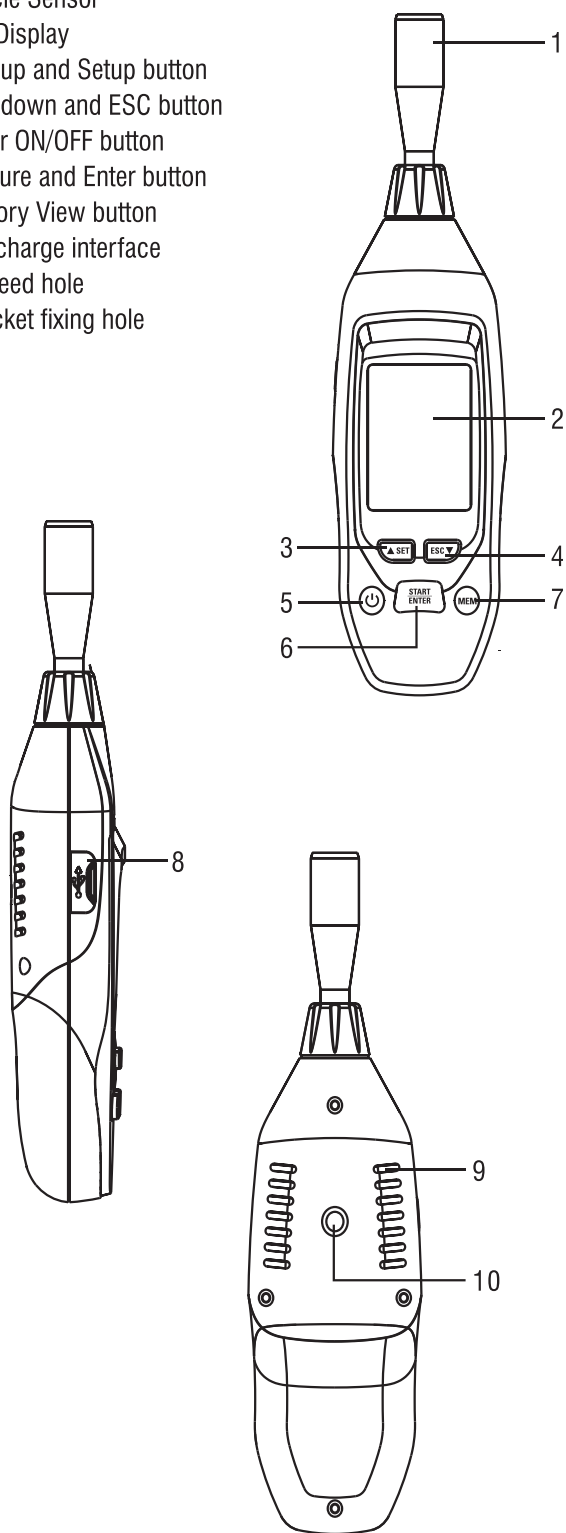
Thank you for purchasing this Mini Particle Counter, This Mini Particle Counter with 2.0" color TFT LCD display provides fast, easy and accurate readings for particle counter, particle mass concentration, Air temperature and relative humidity. The series products is a delicate and practical hand-held 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 Pm10
- 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

##### Particle Counter

Channel	2.5um, 10um
Mass Concentration	PM2.5: 0 ~ 2000ug/m <sup>3</sup> PM10: 0 ~ 2000ug/m <sup>3</sup>
Resolution	1ug/m <sup>3</sup>

##### Air Temperature Measure


Air Temp Range	0 ~ 50°C/32 ~ 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 ~ 20%RH 80 ~ 100%RH ±3.5%RH      20 ~ 80%RH

## 5. Power on or Power off

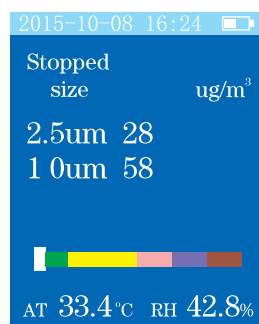
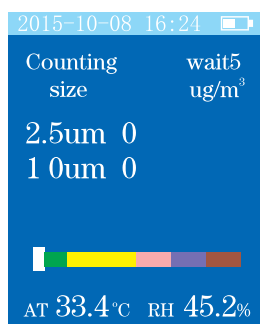
On the power off mode, press and hold ⏻ button, until the LCD is on, then the unit will power on.

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

## 6. Measurement Mode

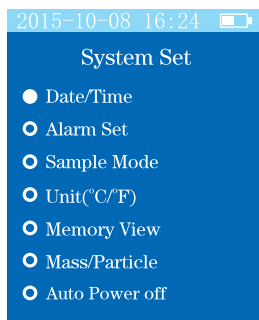
On the power on mode, you can press the  button to start measuring PM2.5 and PM10, the top left corner of the LCD display “Counting”, the top right corner of the LCD display count down, LCD main display PM2.5 and PM10 data and temperature & humidity readings are at the bottom of LCD.

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.



## 7. Setup mode

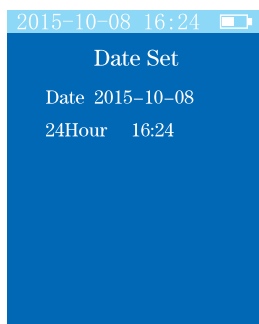
Powering on the instrument, Long press button **▲SET** to enter into the system setup mode when not do measurement operation, as shown below:



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.

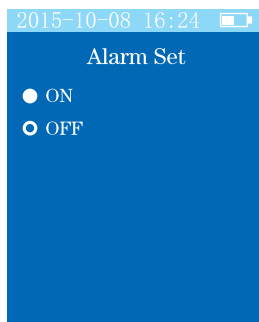
### 7-1.Date/Time setup

After entering into Date/Time setup mode, press **▲SET** button and **ESC▼** button to select the value, press **START ENTER** 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.



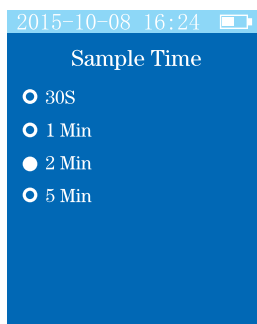
### 7-2.Alarm setup

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



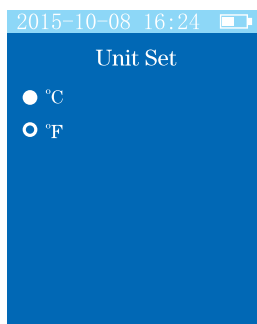
### 7-3.Sample Time

Press  button and thes  button to select the sampling time, sampling time can be select by 30s,1min,2min or 5min.



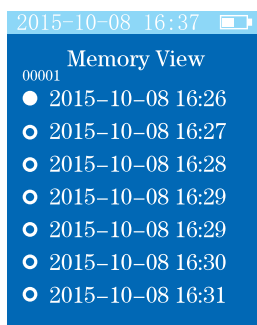
### 7-4.Unit(°C/°F)setup

Press  button and the  button to select the temperature unit (°C/°F).



### 7-5.Memory View

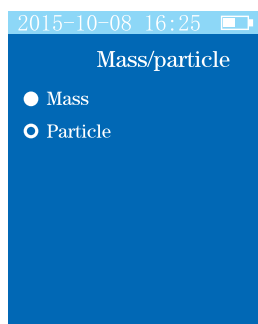
Press button  and button  to select storage catalog, press  button to view data in selected storage catalog.  
5000 sets of data can be stored in the instrument.





### 7-6.Mass/Particle setup

Press  button and the  button to select the mode particle concentration and mass concentration mode.



### 7-7.Auto Power Off setup

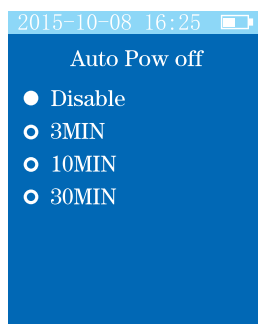
Press button  and button  to set the auto-off time.

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

In the main LCD interface, pressing and hold the  button then press the  button until the sound of a buzzer delete the stored 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.



## **Warranty**

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Triplett / Jewell Instruments extends the following warranty to the original purchaser of these goods for use. Triplett warrants to the original purchaser for use that the products sold by it will be free from defects in workmanship and material for a period of (1) one year from the date of purchase. This warranty does not apply to any of our products which have been repaired or altered by unauthorized persons in any way or purchased from unauthorized distributors so as, in our sole judgment, to injure their stability or reliability, or which have been subject to misuse, abuse, misapplication, negligence, accident or which have had the serial numbers altered, defaced, or removed. Accessories, including batteries are not covered by this warranty.

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