Laser PM2.5 Meter 5800D

Instruction Manual

Real Time Mode
Timing Mode
Record Mode
Set Parameter

Laser PM2.5 Meter

Welcome you to choose the product, in order to make your product function into full play, we recommend that you use and this manual carefully before operating this product.

This product is a high-tech air quality monitor to measure the P2.5 and PM10 use of a laser PM2.5 sensor , single-chip microcomputer technology and high visibility LCD dot matrix LCD

This instrument is of high precision, short measuring time, stable performance, strong function, easy operation, low power consumption, with functions of time display, real time measurement, can also set up three points every day timing measurement and data save, very suitable for indoor and outdoor environmental monitoring, can also be used in the detection of air purification machine to air purification effect.

1、 Safety Requirements

· The instrument use rechargeable batteries, AC/DC adapter can be used for charging, please use to provide the same specification of adapter charging, avoid incorrect specification adapter USES damage the instrument or cause a fire.

· Non-professional workers do not open the instrument, in order to avoid damage to this instrument.

· Do not use this instrument in the inflammable and explosive environment.

· don't under the environment of easy corrosion, radioactive gas using the instrument.

· don't be in a lot of fog, vapor and particles under the environment of the use of the instrument.

2．Technical features

Measuring principle： Laser scattering

The range of PM2.5 detection：0-999.9 μg/m3

The resolution of PM2.5： 0.1 μg/m3

The range of PM10 detection：0-999.9μg/m3

The resolution of PM10： 0.1 μg/m3

The minimum of particle diameter ： 0.3 μm

Relative Accuracy：±20% or ±15μg/m^3 MAX

Auto power off: 5 minutes after no push button, the meter automatically enter to power off mode

Power： 7.4V Li-ion Battery capacity： 1400mAh

Power Adapter：9V Charging current： 2.0A

Working time：Approx. 30 hours

Working temperature：5—45℃

Storage temperature：-20—70℃

Size of product：196*95*46 mm

Weight of product：0.42 kg

3．Operation Instruction

Note: In the measurement, please don't block the air inlet and air outlet.If the machine becomes unresponsive or function keys disorder display abnormal behavior, to live with a small thin stick to poke holes in the back of the machine button forced shutdown.

(1) Panel Layout

① RUN/STOP Key: Press the key to run the measurement or stop the measurement at Real Time Mode.

② POWER Key: Long press the key for 2 seconds to turn on or turn off.

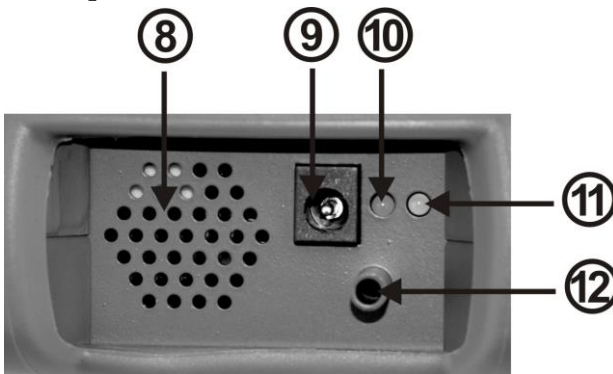③ BACK Key: Press the key return to the parent menu.

④ DOWN Key: Press the key the cursor moves down

⑤ ENTER Key: Press the key enter the selected menu item

⑥ UP Key: Press the key the cursor moves up.

⑦ Display

(2) The side plate

⑧ PM2.5 measuring air outlet.
⑨ Charging power supply mouth.
⑩ The red charge indicator: The red light when charging the said charge good
11 The green charge indicator: The green light when charging the said charge no good.
12 PM2.5 measuring air inlet.

Remark：

PM2.5 Air Pollution Level

LVL1 Good	0-35 ug/m³
LVL2 Moderate	36-75 ug/m³
LVL3 Unhealthy-	76-115 ug/m³
LVL4 Unhealthy	116-150 ug/m³
LVL5 Unhealthy+	151-250 ug/m³
LVL6 Hazardous	> 250 ug/m³

(3) Home Menu

After startup display Home Menu:

```
▶ Real Time Mode
  Timing Mode
  Record Mode
  Set Parameter
```
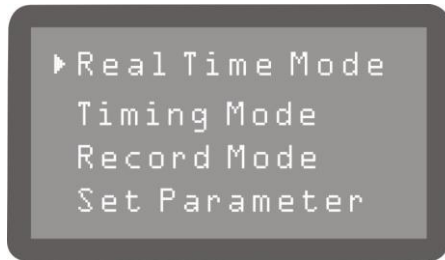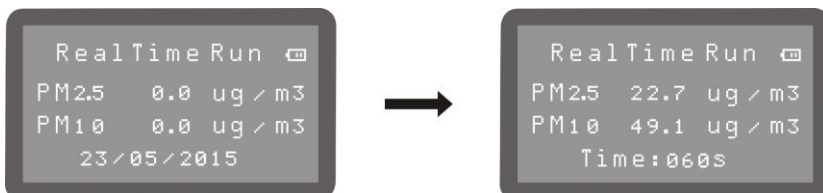
Press "UP" Key or "DOWN" Key to select "Real Time Mode" or "Timing Mode" or "Record Mode" or "Set Parameter" and Press "ENTER" Key to enter the corresponding mode.

(4) . Real Time Mode

· To move the indicating arrow to choose Real Time Mode of home menu, and press ENTER button once to real-time measurement mode,it displays as follows:

```
▶ Real Time Mode
  Timing Mode
  Record Mode
  Set Parameter
```
➡️
```
 Real Time Run ▣
PM2.5   0.0 ug∕m3
PM10    0.0 ug∕m3
   23∕05∕2015
```
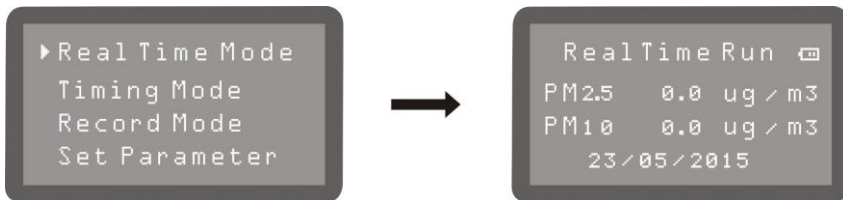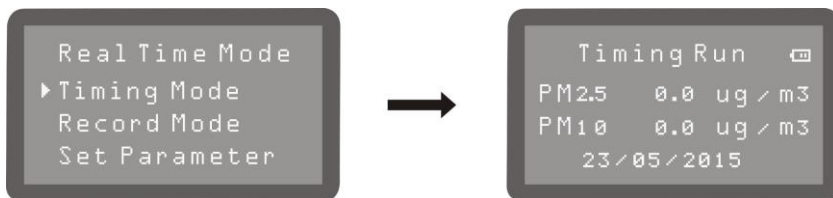
· In the real-time measurement mode to press RUN/STOP button once can start to measurement or Stop measurement. It will be automatically Stop measurement, when pressing RUN button after 30 second. (The system has been defaulting to measure 30 second every time, if you want to extend the measurement time, you can set the Run Time Set to change the time of each measurement.)

```
 Real Time Run ▣
PM2.5   0.0 ug∕m3
PM10    0.0 ug∕m3
   23∕05∕2015
```
➡️
```
 Real Time Run ▣
PM2.5  22.7 ug∕m3
PM10   49.1 ug∕m3
    Time:060S
```

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• After automatically Stop measurement, display PM2.5 PM10 Measured values, and Alternate display system time and air quality levels

（**5**）**Timing Mode(only 5800E)**

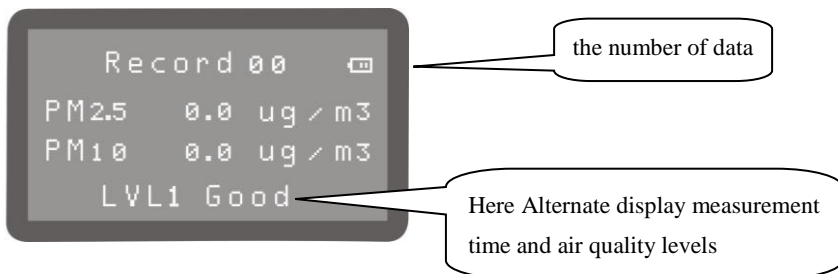• To move the indicating arrow to choose Timing Mode of home menu, and press ENTER button once to timing measurement mode,it displays as follows:

```
Real Time Mode          Timing Run    ▭
▸Timing Mode      ➡     PM2.5   0.0 ug∕m3
 Record Mode            PM10    0.0 ug∕m3
 Set Parameter             23∕05∕2015
```

• In the timing measurement mode, via in Set Timing Time menu in the Set Parameter menu setting the Time 1, Time 2, Time 3 it will be decided what time to run the measurement. For example setting the Time 1 as 11:30:00, it means that (in the timing measurement mode) the machine will automatically work on, when time's 11:30,In this mode each time is fixed at 60 seconds measurement.

（**6**）**Record Mode(0nly 5800E)**

• To move the indicating arrow to choose Record Mode menu, and press ENTER button once to enter the data record mode of the time measurement,it displays as follows:
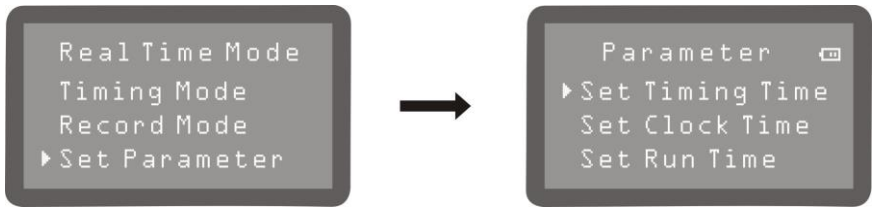
```
    Record 00    ▭                    the number of data
PM2.5   0.0 ug∕m3
PM10    0.0 ug∕m3
    LVL1 Good                    Here Alternate display measurement
                                 time and air quality levels
```

• In Record Mode, if you want to check the data record of timing measurement, please press UP/ DOWN button to find the one which you want.

（**7**）**Set Parameter**

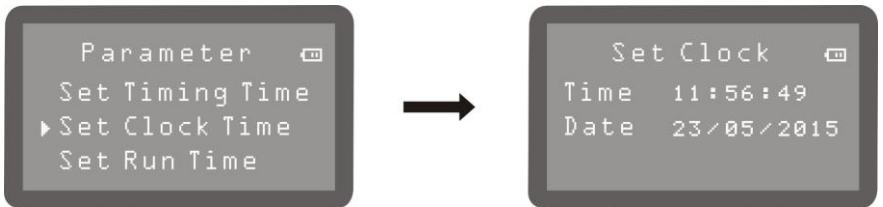• To move the indicating arrow to choose Set Parameter menu, and press ENTER button

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once to enter the setting of parameter,it displays as follows:

Real Time Mode	Parameter ▭
Timing Mode	▶ Set Timing Time
Record Mode	Set Clock Time
▶ Set Parameter	Set Run Time

• The menu is described below:

① Set Clock Time:

To move the indicating arrow to choose Set Clock Time:

Parameter ▭	Set Clock ▭
Set Timing Time	Time 11:56:49
▶ Set Clock Time	Date 23/05/2015
Set Run Time	

you can modify Flashing digital of the Time or date via pressing UP (or DOWN)

buttons. And Press ENTER to the cursor turn to the next number.

② Set Timing Time(only 5800E)

To move the indicating arrow to choose Set Timing Time:

Parameter ▭	Set Timer ▭
▶ Set Timing Time	Time1 00:00:00
Set Clock Time	Time2 08:00:00
Set Run Time	Time3 16:00:00
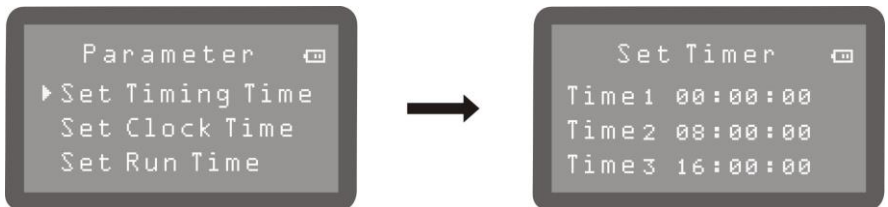
In this interface it can be setting the hour and minute about Time 1, Time 2, Time 3.

you can modify Flashing digital of the Time or date via pressing UP (or DOWN)

buttons. And Press ENTER to the cursor turn to the next number.

③ Set Run Time

To move the indicating arrow to choose Set Run Time:
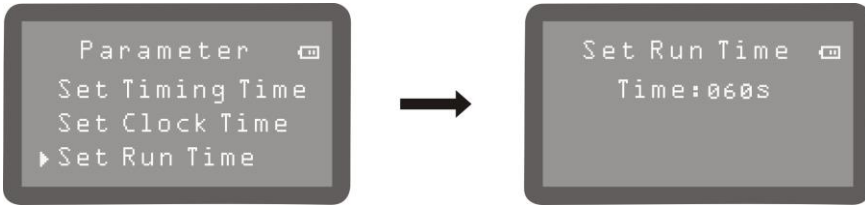
Running time is a measurement of PM2.5 time. The range of values can be set to 000, or 060 seconds -180 seconds timing measurements, if set to 000 seconds (000 seconds at the timing when the non-state) manually start or stop the measurement.

you can modify Flashing digital of the Time via pressing UP (or DOWN) buttons. And Press ENTER to Confirm and exit.

Above picture and content just for your reference. Please be subject to the actual products if anything different or updated. Please pardon for not informing in advance.