Temtop

P600
Air Quality Monitor
User Manual

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Factory Affecting Air Quality

PM2.5 (Particulate Matter 2.5) refers to fine particles with a diameter of 2.5 microns or less. Due to its tiny size, PM2.5 can get absorbed into the bloodstream and lungs, so long-term exposure to high levels of PM2.5 may cause eye and nose irritation, coughing, asthma, emphysema, lung disease, heart attacks, cancer, and more.

PM10 (Particulate Matter 10) relates to particulate matter with a diameter of 10 microns or less. Due to its larger particle size, PM10 can be inhaled and does not penetrate the bronchial tubes because larger particles can be made available by the cilia and mucus in the nose and throat. It is usually considered less of a health hazard than PM2.5.

Important!

★ Do not cover the vents of the detector and keep lint out of the detector, as the particle sensor may not work correctly.

★ Children should only use this device under adult supervision. Keep packaging materials, such as plastic bags and plastic wrap, out of the reach of children as they present a choking hazard.

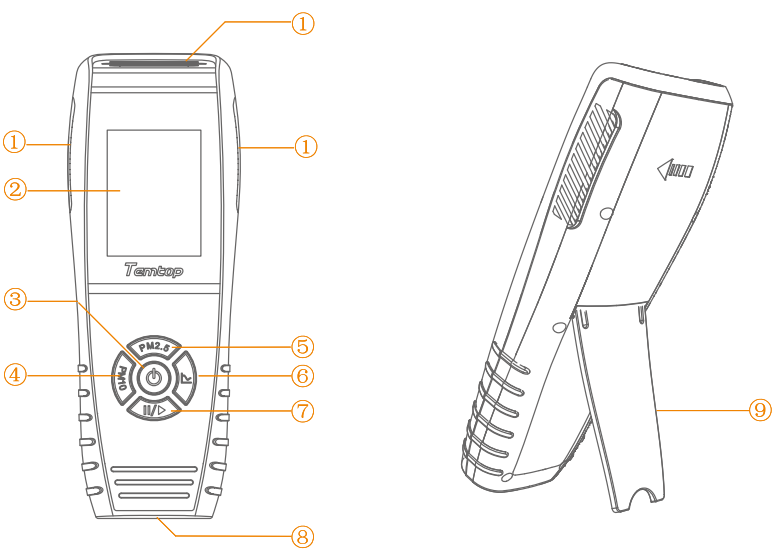
★ If the battery level shows ▭, please charge the detector in time to avoid being affected during use (it can also recharge when switched off).

★ Before detection, keep the target room airtight for 10 minutes. Then, take the average value of multiple points to calculate its overall air quality.

★ Do not dismantle the unit yourself. In the event of a defect, contact your dealer instead, who will liaise with the service center and, if necessary, send the device in for repair.

★ This product is intended for monitoring the health of the indoor environment only and should not be considered a professional measurement tool.

Overview



① Air Inlet/Outlet ② LCD Screen ③ Power Button

④ PM10 Button ⑤ PM2.5 Button ⑥ Graph View Button

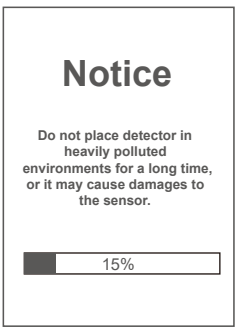
⑦ Running/Hold Button ⑧ USB Port ⑨ Bracket

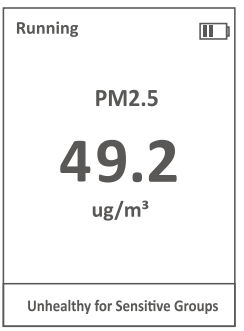
Specifications

Model	P600
Dimensions	177*65.5*32mm (6.9*2.6*1.2 in)
Battery Capacity	3000mAh
Battery Life	6-8h
Charging Output	DC5V, 1A
Display	TFT color LCD screen
Weight	About 214g (0.47lb)
Operating Environment	Temperature: 0~50°C (32-122°F) Humidity: 0~90%RH
PM2.5	Measuring range: 0-999ug/m^3 Resolution: 0.1ug/m^3 Accuracy:±10μg/m^3(0-100 μg/m^3) ±10%(100-500μg/m^3)
PM10	Measuring range: 0-999ug/m^3 Resolution: 0.1ug/m^3 Accuracy: ±15 μg/m^3(0-100 μg/m^3) ±15%(100-500 μg/m^3)

1.Switch On/Off

Press and hold ⏻ button for 2 seconds to turn on/off the detector. After initialization, the instrument enters the default interface.

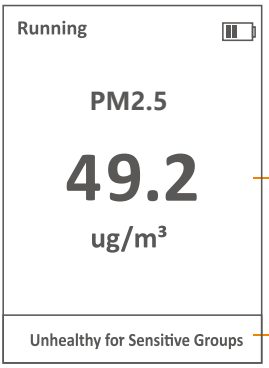




2.Detection

2.1 PM2.5 Button

Please click the PM2.5 button to view the PM2.5 detection interface.

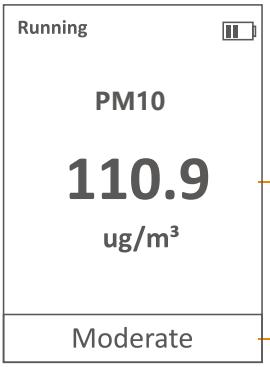


PM2.5 Concentration

Air Quality

2.2 PM10 Button

Please click the PM10 button to view the PM10 detection interface.

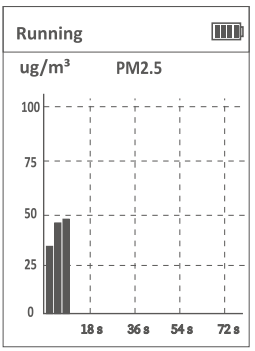


PM10 Concentration

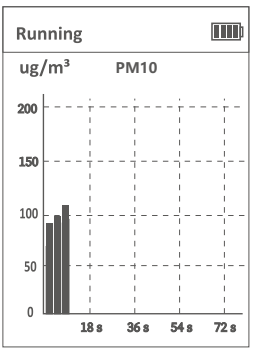
Air Quality

2.3 Graph View Button

Please click the button to view the Graph View.



PM2.5 Graph View



PM10 Graph View

Note:

1) Please click button to switch between running mode and holding mode.

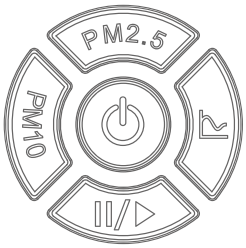
In running mode, the detector always displays currently detected data.

In holding mode, the detector paused the detection function and will stop updating data on the screen.

2) Data updates every 3 seconds when x axis value is within 72 seconds.
Data updates every 1 minute when x axis value is within 24 minutes.
Data updates every 5 minutes when x axis value is within 120 minutes.
Data updates every 30 minutes when x axis value is within 12 hours.

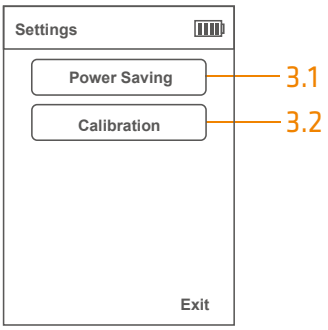
3.Settings Menu

Buttons



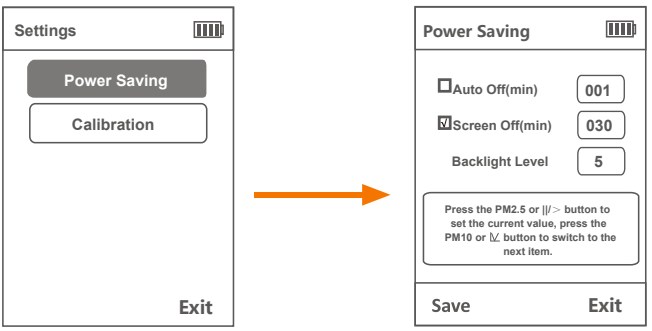
Button	Setting Function
PM2.5	Up/Increase
II/▷	Down/decrease
PM10	Left
◁	Right
⏻	Confirm

Please press and hold the II/▷ button for 2 seconds to enter the system settings.



3.1 Power Saving (Example Of Button Operation):

Press the AQI or II/▷ button to scroll up or down and press the ⏻ button to confirm.
Press the PM10 or PM2.5 button to switch to the item you want to set.
Press the AQI or II/▷ button to increase or decrease the current value.
Then press the PM10 or PM2.5 button to switch to save or exit, and press ⏻ button to save the setting or exit the interface.



Note: 1. " ☐Auto Off(min) " : Auto power off function is not switched on.
2. " ☑Screen Off(min) " : The screen will automatically switch off after 30 minutes.
3. The "Backlight Level" are divided into 0, 1, 2, 3, 4 and 5.

3.2 Calibration

In this interface, you can calibrate the PM2.5 value by adjusting the "K" factor.

Formula :
K(target value) = PM2.5(target value) / PM2.5(current value) * K(current value).
Example :
If PM2.5 target value is 30.0μg/m³, current value is 49.2μg/m³, current value of K is 1.00. Then "K(target value) = 30.0/49.2 * 1.00 = 0.61".

Note: For products calibrated according to ISO standard, K coefficient is 1 by default. It is only recommended that professional engineers perform this adjustment under standard conditions with standard laboratory, or test bin facilities. At the same time, the calibration environment required for PM2.5 is relatively high, and the calibration results will be affected by factors such as dust/particle size and different configurations of standard warehouse facilities, etc, so it is strongly recommended that you use this function only under essential conditions or contact us to better support your special needs.

Air Quality Parameter for Reference

Status / Pollutant	Good	Moderate	Unhealthy for Sensitive Groups	Unhealthy	Very Unhealthy	Hazardous
PM2.5 (μg/m³)	≤12	12.1~35.4	35.5~55.4	55.5~150.4	150.5~250.4	≥250.5
PM10 (μg/m³)	≤54.9	55~154.9	155~254.9	255~354.9	355~424.9	≥425
AQI*	≤50	51~100	101~150	151~200	201~300	≥301

What's Included

P600 Detector x 1
USB Cable x 1
User Manual x 1

FAQ

Q: Why is the PM2.5 reading constantly changing?

A: PM2.5 concentrations in the environment are constantly changing, not only due to environmental factors such as changes in airflow, moisture, and wind patterns but also due to the presence of such familiar sources as smoking, cooking, vehicle emissions, smoke from coal burning/chimney/stoves, etc. All these may affect the concentration of PM2.5 and lead to differences in the readings.

Q: AQI/ PM2.5 and other values, why the measured value is inconsistent with the official announcement?

A: The AQI/PM2.5 shown on the display is a measurement of the space where the device is located. The measured value published on the Internet or official websites is the average value of several monitoring points, and each measurement point will be different. At the same time, according to the regulations of EPA and WHO, the AQI value is calculated based on the highest value among the five pollutants in the atmosphere on that day. In the past ten years, the local AQI in the United States has basically been calculated with the value of PM2.5/10, and sometimes with the value of O_3.

Q: Why are the data readings very high/out of range when with the detectors on?

A: Being packed in an ink-printed box may interfere with the sensor over time due to the organic volatiles left in the packaging. Therefore, once unpacked, please place the detector in a ventilated area to help speed up its data recovery.

Q: Why is the data high after booting?

A: The reason why the data is high when you first turn on the sensor is that when the sensor starts to work, the fan will run at full speed, and it will take a while (about 1-2 minutes) for the fan to run stably. At this time, the airflow in the air duct will be stable, and the data will gradually become stable.

Q: Why is the test result abnormal?

A: ① Please check that the air inlet or outlet is not covered or that liquid has entered.
② Gently shake the detector during detection to increase interaction with the surrounding air.
③ The sensor may not recover, so please place the detector outside in a ventilated area.

Q: Why data reading is unstable?

A: If the airflow in the current sampling space is in an unstable state, such as strong wind, the concentration of particulate matter in the air will be unevenly distributed, and will vary greatly with the surrounding airflow, resulting in large differences in measured values.

Q: Can the calibration be accelerated if the detector is facing the outlet of air conditioner / fan?

A: Not. A relatively high-temperature difference or airflow speed from the air conditioner/fan outlet may cause condensation or temperature changes on the sensor, affecting its detection performance. Please place the detector outside in a cool, ventilated area.

Warranty

Temtop warrants the included detector for 1 year from the date of original purchase. The item can be exchanged or returned within 30 days if the defect is not caused by artificial damage.

Item	Warranty Period
Detector	1 year included
Accessories	N/A

Before return or delivery for repair, please check if the following √ items are ready:

	Detector & Accessories	Complete Package	Proof of Purchase*	Gift (if any)
Return	√	√	√	√
Exchange	√	√	√	
Repair	√		√	

* Including invoice, order number and etc.

Temtop warranty does NOT include:

- Malfunction or damages caused by artificial damage or modification.
- Other deliberate damages.
- Damage caused by natural events.

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