

Laser Particle Air Quality Detector User Manual

Air Quality Key Factors

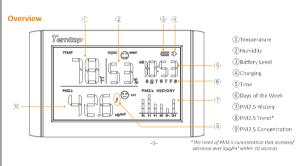


micrometers or less. Due to its tiny size, PM2.5 can be absorbed into bloodstream and the lungs, so that long-term exposure to high concentration of PM2.5 environment may cause eye and nose irritation, cough, asthma, emphysema, lung disease, heart attacks, cancer and etc.



Temperature & Humidity may often be ignored however they do have significant impacts on individual's wellbeing, comfort, health and safety as well as your valuable goods. While high humidity may lead to increased household air pollutants especially the biological contaminants such as molds, bacteria, viruses, fungi and dust mites; cold, low humidity may cause nosebleeds, skin and respiratory irritations, dyspnea, static electricity shocks and etc.

- ★ Do not place the detector in a highly polluted environment (particle concentration > 500µg/m³) for a long time; or it may cause damages to the sensor.
- ★ Do not cover the air inlet/outlet during detections; or let fluff or hair enter the detector.
- ★ Do not use detector in humid places or environments with strong odor to maintain accuracy.
- ★ Do not disassemble the detector or change its internal wiring to avoid potential damages.
- ★ Do not use the detector in direct sunlight or facing air conditioner outlets and etc.
- ★ If battery level shows , please charge the detector promptly to avoid effects during use (chargeable when turned off).
- ★ Do not change the "system" file of the detector or it will cause abnormal and malfunctions. The file is for testing and maintenance by authorized engineers and personnel ONLY.





- Min/Max Switch Min/Max; Decrease Value · Press to view the Min/Max values of temperature,
- . In time setting mode, press to decrease the value. press and hold to decrease quickly.
- C/F Switch °C/°F: Increase Value
- Press to switch temperature units ℃ and ℉
- In time setting mode, press to increase the value, press and hold to increase quickly

Set Setting; Switch; USB Mode · Press to enter time setting mode, press again to

- . Connect detector to the computer via USB cable; then press and hold for 2s to enter the USB mode.

Power ON/OFF: Confirm

- Press and hold for 2s to turn on/off the detector.
- . In time setting mode, press to confirm and save all changes

Operation

 Press and hold button for 2 seconds to turn on/off the detector. After turned on, it will count



- Press Subutton. Year will flash first.
- Press vinter or C/F button to decrease or increase to the correct year; press and hold to quickly decrease or increase the values.
- previous step to set the month, day, AM PM, hour and
- Press (Power) button to save all settings and return to main page (auto exit after 10 seconds of inactivity and all changes will NOT be saved).

③ Temperature, Humidity, PM2.5

- Press (CIF) button to switch between temperature units °C
 Turn off the detector and connect it to the computer via USB and °E
- Press with button to display the maximum temperature, humidity and PM2.5 concentration within 12 hours ess again to display their minimum values (auto exit after 10 seconds of inactivity).



cable; then press and hold (See) button for 2 seconds to ente the USB mode. Please see figures shown below:



- The detector will generate a removable storage device Temtor disk including two folders: History and System.

 History folder: the .csv format file that contains average tem-
- perature, humidity and PM2.5 data on an hourly basis. Please save it to your computer for further view
- save it to your computer for further view.
 2. System folder: the system file that used for testing and maintenance ONLY. Users are forbidden to change it or it may cause abnormal or malfunctions of the detector.

Model: P20

- Dimensions: 260 x 139 x 33 mm
- · Battery capacity: 3000mAh Battery voltage: 3.7VDC

- · Input voltage/current: DC5V; 1A Operating environment: 0-50°C (32-122°F): 0-90%RH

- Measuring range: 0-50°C (32-122°F) Accuracy: ±1°C (±1.8°F)
- Humidity
- Accuracy: ±5%RH • PM2.5
- Measuring range: 0-999μg/m³

Resolution: 0.01µg/m³ (0-9.99µg/m³)

0.1µg/m³ (10-99.9µg/m³) 1µg/m³ (100-999µg/m³)

Accuracy: ±10μg/m3 (0~100μg/m3)

±10% (100-500µg/m³)

Frequently Asked Questions (FAOs)

Q: Why is the PM2.5 reading not matching with the government departments' or other organizations'?

A: The PM2.5 data computed by government departments or other organization are the average data values from multi monitoring points. Hence it is common that the PM2.5 reading at your place/location is different from theirs.

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

A: As PM2.5 concentration in the environment is changing all the time. That not only due to environment factors like changes in airflow, humidity, wind direction and etc. But also due to common pollutant sources like smoking, cooking, exhaust ssions from vehicles, smoke from burning coal/chimneys/furnaces, etc. All these may influence the PM2.5 conce and give differences in the readings.

Q: How to understand the changes in PM2.5 HISTORY area?

A: This area shows the changes in PM2.5 concentration over the last 12 hours in a histogram; wherein, the x-axis indicates time and the y-axis indicates concentration: higher the PM2.5 concentration, higher the y-axis (up to 4 segments).

Q: Why is the data reading unstable?

A. As airflow in the environment is changing and the distribution of organic matter concentration may be ur Temtop recommends you to try again in low airflow areas.

Q: How to read face icon on the display?

PM2.5 (μg/m³)			Humidity (%RH)		
GOOD	0	0-12	COMFORT	0	30-60
FAIIR		12,1-55,4	WET	8	>60
POOR	8	>55.4	DRY	8	<30

What's Included

P20 Laser Particle Detector x 1

USB Cable x 1 User Manual x 1

Seamless Nail x 4

Seamless Nail Label x 1

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Warranty

nts the included detector for 1 year from the date of original purchase. The item can be exchanged or

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	√		√	

- Malfunction or damages caused by artificial damage or modification
- · Damages caused by force majeure

Clean Rooms | Pharma | Hospital | HVAC | BulkDrugs | Chemicals | Heavy Machinery Hydraulics & Vacuum Industry | Green House | Server Room | Confined Space | Cold Storage

Instrukart Holdings

India Toll Free: 1800-121-0506 | Ph: +91 (40)40262020 Mob +91 7331110506 | Email: info@instrukart.com #18, Street-1A, Czech Colony, Sanath Nagar, Hyderabad -500018, INDIA.

