

***Temtop***  
*Your Expert in Air Quality*

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Please kindly be noted that the specifications, functions, interfaces, etc. of the product may be different from the content shown in the manual due to improvements and upgrades. Please kindly confirm the latest information and information with your sales representative.

# AIR QUALITY MONITOR



# GLOBAL LAYOUT

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*Temtop*



Temtop, a brand under Elitech Technology.



# ABOUT TEMTOP

Temtop is under the umbrella of Elitech Technology, Inc. of the United States. Committed to providing light scattering environmental particulate matter sensor technology and related Key environmental monitoring equipment, designed to provide global users with a one-stop solution for environmental particulate monitoring.

## YOU EXPERT IN AIR QUALITY

Professional sensors make professional air quality detectors.

Temtop has more than 10 years of experience in developing particulate matter sensors, only to create more professional air quality monitor, to visualize the air quality around you.

Temtop has over one million users worldwide and has been a reliable choice for many organizations, including the University of Washington, the University of Chicago, and U.S. government agencies.

## SERVICE AND SUPPORT



Global Warranty



Calibration Service



Technical Support



Software and Cloud

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# Desktop Air Quality Monitor

## M10/ M10i

4-in-1 air quality monitor measures PM2.5, formaldehyde, TVOC and AQI.

## Features

- 4 in 1 Multifunctional Monitor**  
This smart air quality meter provides accurate monitoring of 4 important indexes for indoor air quality. Including PM2.5, AQI, HCHO and TVOC.
- Advanced Built-in Sensors**  
Adopting Temtop core technology industrial-grade PM2.5 laser sensor and British Dart formaldehyde sensor to ensure the ultra-precision and professionalism for detecting needs.
- Easy to Use**  
Only use one single button to realize ON/OFF, interface switching, and auto-loop function. The calibration function for HCHO sensor is also available.
- Get Informed**  
With a 3 color-coded LED indicator, air pollution condition can be easily understood without any instructions-Green (Good), Yellow (Moderate) and Red (Unhealthy).
- Wireless Ready** (Only for M10i)  
View your data anytime, anywhere with the free Temtop App (iOS/Android) by connecting Bluetooth or Wi-Fi (2.4GHz). Also, you can export historical data to your PC.

Technical Parameter		
Item	M10	M10i
Functions	PM2.5, HCHO, TVOC, AQI	
Network communication	/	WiFi 2.4GHz
Dimensions	82x82x31mm (3.2x3.2x1.2in.)	
Battery capacity	2200mAh	
Battery life	Approx. 6 hours on a single charge	
Input	DC5V, 1A	
Operating environment	Temperature: 0-50°C(32-122°F); Humidity: 0-90%RH	
PM2.5	Range: 0-999µg/m³   Resolution: 1µg/m³ Accuracy: ±10µg/m³ (0-100µg/m³), ±10% (100-500µg/m³)	
HCHO	Range: 0-2mg/m³   Resolution: 0.01mg/m³	
TVOC	Range: 0-5mg/m³   Resolution: 0.01mg/m³	

## Application Scenario

Indoor air quality monitoring

Outdoor air quality monitoring

Household

Business center





# Desktop Air Quality Monitor

## M10+/ C10

Multi-function air quality monitor measures PM2.5, AQI, TVOC, CO<sub>2</sub> concentration, temperature and humidity (PM2.5, AQI, TVOC for M10+ only).

## Features

- Unique design**  
Features a cubic design, unique sampling ducts on the back and calibration buttons.
- Advanced Built-in Sensors**  
Adopting Temtop core technology industrial-grade PM2.5 laser sensor and British Dart formaldehyde sensor to ensure the ultra-precision and professionalism for detecting needs.
- User-friendly design**  
We use a simple three-color indicator bar and an audible alarm that allows you to intuitively understand the concentration quality level.
- Multi-scene Use**  
This meter is small, practical and reliable, it is the ideal indoor air quality monitor for our home, office, car, garage, grow tent and more.
- Insight into environmental trends (Only for M10+)**  
Bluetooth networking automatically synchronizes historical data, and M10+ helps you gain a deeper understanding of your environmental improvements, ensuring you live in the best possible conditions.

Technical Parameter		
Item	M10+ (2024 New)	C10
Functions	PM2.5, AQI, TVOC, CO <sub>2</sub> , Temperature, Humidity and Time	CO <sub>2</sub> , Temperature and Humidity
Network communication	bluetooth	/
Dimensions	82x82x31mm (3.2x3.2x1.2in.)	
Battery capacity	2200mAh	
Battery life	Approx. 60 Days	Approx. 4 Days
Input	DC5V, 1A	
Operating environment	0-50°C (32-122°F); 0-90%RH	-10-60°C (14-140°F); 0-90%RH
PM2.5	Range: 0-999.9µg/m³ Resolution: 0.1µg/m³ Accuracy: ±10µg/m³ (0-100µg/m³), ±10% (100-500µg/m³)	/
CO <sub>2</sub>	Range: 400-5000ppm Resolution: 1ppm Accuracy: ±(40ppm+5%), (400-2500ppm)	Range: 0-5000ppm Resolution: 1ppm Accuracy: ±(40ppm+5%), (400-2500ppm)
TVOC	Range: 1-500 Resolution: 1	/
Temperature	Range: 0-60°C (32-140°F) Resolution: 0.1°C (0.1°F) Accuracy: ±0.5°C (±0.9°F)	Range: -20-70°C (-4-158°F) Resolution: 0.1°C (0.1°F) Accuracy: ±0.5°C (±0.9°F)
Humidity	Range: 0-99%RH Resolution: 1%RH Accuracy: ±3%RH	

## Application Scenario



Indoor air quality monitoring



Outdoor air quality monitoring



Household



Business center





# Household Portable Air Meter

## S1/ S1+/ C1

A new generation of thermo-hygrometers with air quality monitoring.

## Features

### • Cross-generational Product

Air meter is an innovated combination of air quality monitor and indoor hydro-thermometer, detecting temperature, humidity, PM 2.5, air quality indexes and CO2 (Only for C1).

### • High Precision Sensor

Equipped with Temtop 5th-gen embedded laser PM sensor and Sensirion temperature & humidity sensor, which Let you clearly perceive the temperature and humidity of your environment and the air you are breathing.

### • Easy to Read

3.3-inch LCD screen features large numbers to inform you of the real time data at a glance. With screen indicator, air quality can be easily understood without any instructions-Good, Fair and Poor.

### • Energy- saving

Compared to traditional AQMs, it uses a unique energy-saving algorithm to reduce energy consumption by 80 per cent and increase standby time.

### • Slim & Modern Design

Ultra thin and slim design, multiple placement options, including magnetic, handheld and standing, which is suitable for various scenarios.

### • Insight into environmental trends (Only for S1+)

Bluetooth networking automatically synchronizes historical data, and S1+ helps you gain a deeper understanding of your environmental improvements, ensuring you live in the best possible conditions.

Technical Parameter			
Item	S1	S1+	C1
Functions	PM2.5, AQI, Temperature and Humidity	PM2.5, AQI, Time, Temperature and Humidity	CO2, Temperature and Humidity
Network communication	/	bluetooth	/
Dimensions	3.5x2.7x0.7 (inches)		
Battery capacity	800mAh		
Battery life	≥100 days (Power-saving Mode) ≥30 days (Smart Mode)	≥90 Days (Power-saving Mode) ≥30 Days (Performance Mode)	≥70 Days (Power-saving Mode) ≥30 Days (Performance Mode)
Input	DC5V, 1A		
Operating environment	-10-60°C (14-140°F); 0-99.9%RH		
PM2.5	Range: 0-999µg/m³ Resolution: 0.1µg/m³ Accuracy: ±5µg/m³ (0-50µg/m³), ±10µg/m³ (50-100µg/m³), ±10% (100-500µg/m³)		/
CO2	/		Range: 400-5000ppm Resolution: 1ppm Accuracy: ±(40ppm+5%), (400-2500ppm)
Humidity	Range: 0-99.9%RH Resolution: 0.1%RH Accuracy: ±3%RH		
Temperature	Range: -10-60°C (14-140°F) Resolution: 0.1°C (0.1°F) Accuracy: ±0.5°C (±0.9°F)		
Work Mode	Power-saving Mode (30min) Smart Mode (automatic)		Power-saving Mode (Sampling interval 10min) Performance Mode (Sampling interval 10min)

## Application Scenario



Indoor air quality monitoring



Outdoor air quality monitoring



Household



Business center





# Desktop Air Quality Monitor

## M100

8-in-1 smart wireless air quality weather station measures PM2.5, AQI, PM10, CO<sub>2</sub>, temperature, humidity, weather Forecast and date&time.

## Features

- Multi-functional Monitor**  
Measures CO<sub>2</sub>, PM2.5, PM10, AQI, temperature, humidity, weather forecast and date&time. Innovated combination of an air quality monitor + indoor thermometer + weather station.
- Advanced Built in Sensors**  
This product is fast-responding and sensitive. It uses a American Temtop PM sensor, a Swedish SenseAir CO<sub>2</sub> sensor and a Swiss Sensirion Temperature & Humidity sensor.
- Know at Glance**  
7.8" over-sized back-lit LCD screen allows you to see the screen clearly in a dark environment without straining your eyes.
- Wireless Ready**  
View your data anytime with the free Temtop App (iOS/Android) by connecting Bluetooth or Wi-Fi (2.4&5GHz). Also, you can export historical data via Temtop App.
- Smart Self-calibration**  
Supports easy calibration. To ensure the accuracy of the sensors, make sure it is placed in a ventilated environment (indoor or outdoor) for at least 6 hours before being used for the first time or after being stored for a long time.

## Technical Parameter

Item	M100	P1
Functions	CO <sub>2</sub> , PM2.5, PM10, AQI, Temperature, Humidity, Weather Forecast and Time	PM2.5, Temperature, Humidity
Dimensions	165x120x70mm (6.5x4.8x2.8in.)	78x78x31.8mm (3.1x3.1x1.3in.)
Battery capacity	4000mAh	2200mAh
WiFi	2.4GHz/5GHz	2.4GHz/5GHz
Input	DC5V, 2A	DC5V, 1A
Operating environment	-10-60°C/0-99.9%	0-50°C (32-122°F)/0-90%RH
PM2.5	Range: 0-999µg/m³ Resolution: 0.1µg/m³ Accuracy: ±10µg/m³ (0-100µg/m³), ±10% (100-500µg/m³)	Range: 0-999.9µg/m³ Resolution: 0.1µg/m³ Accuracy: ±10µg/m³ (0-100µg/m³), ±10% (100-500µg/m³)
PM10	Range: 0-999µg/m³ Resolution: 0.1µg/m³ Accuracy: ±15µg/m³ (0-100µg/m³), ±15% (100-500µg/m³)	/
CO <sub>2</sub>	Range: 0-5000ppm Resolution: 1ppm Accuracy: ±40ppm ±3% reading	/
Temperature	Range: -9.9-50°C (14.18-122°F) Resolution: 0.1°C (0.1°F) Accuracy: ±1°C(±1.8°F)	Range: -10-60°C (14-140°F) Resolution: 0.1°C(0.1°F) Accuracy: ±0.5°C(±0.9°F)
Humidity	Range: 0-99.9%RH Resolution: 0.1%RH Accuracy: ±5%RH	Range: 0-99%RH Resolution: 0.1%RH Accuracy: ±3%RH

## Application Scenario



Indoor air quality monitoring



Outdoor air quality monitoring



Household



Business center



# Handheld Air Quality Monitor

## M2000 2nd/ M2000C 2nd

Multifunctional handheld air quality monitor measures PM2.5, PM10, number of particles, CO2 concentration, temperature & humidity and formaldehyde (Only for M2000 2nd). Equipped with histogram and data export function.

## Features

### • Multifunctional CO2 Monitor

Updated CO2 detector provides reliable results on air quality index, including CO2, PM2.5, PM10, number of particle, temperature & humidity and HCHO(Only for M2000 2nd).

### • Advanced Built in Sensors

This product is fast-responding and sensitive. It uses a American Temtop PM sensor, a Swedish SenseAir CO2 sensor, a Swiss Sensirion Temperature & Humidity sensor and a British Dart formaldehyde sensor (Only for M2000 2nd).

### • Get Notifications

Both products will automatically alert you through buzzer or indicator when levels get too high.

### • Powerful Data Storage Capacity

Built-in 70000 sets of data storage capacity and CSV reports can be directly exported to your PC by using USB cable.

### • Calibration Available

The calibration function for CO2 and HCHO sensors are also available to sustain a better performance under various scenarios.

## Technical Parameter

Item	M2000 2nd	M2000C 2nd
Functions	PM2.5, PM10, Number of Particles, CO2, HCHO, Temperature and Humidity	PM2.5, PM10, Number of Particles, CO2, Temperature and Humidity
Data Storage and Export	√	√
Dimensions	223.5x73.5x37.5mm/8.8x2.8x1.4in.	
Battery capacity	3000mAh	
Battery life	6-8h	
Input	DC5V, 1A	
Operation environment	Temperature range: 0-50°C (32-122°F) Humidity range: 0-90% RH Atmospheric pressure condition: 1atm	
PM2.5	Sensor: Laser PM sensor Measuring range: 0-999µg/m³ Resolution: 0.1µg/m³ Accuracy: ±10µg/m³ (0-100µg/m³), ±10% (100-500µg/m³)	
PM10	Sensor: Laser PM sensor Measuring range: 0-999µg/m³ Resolution: 0.1µg/m³ Accuracy: ±15µg/m³ (0-100µg/m³), ±15% (100-500µg/m³)	
Carbon dioxide (CO2)	Sensor: Non-Dispersive Infrared (NDIR) CO2 sensor Measuring range: 0-5,000ppm Resolution: 1ppm Accuracy: ±5% ±50ppm (400-5000ppm)	
HCHO	Measurement limits: 0-2mg/m³ Resolution: 0.001mg/m³	/
Temperature	Range: 0-50°C (32-122°F) Resolution: 0.1°C (0.1°F) Accuracy: ±1°C (±18°F)	
Humidity	Range: 0-99.9%RH Resolution: 0.1%RH Accuracy: ±5%RH	

## Application Scenario



Indoor air quality monitoring



Outdoor air quality monitoring



Household



Business center





# Handheld Air Quality Monitor

## LKC-1000S+ 2nd

10-in-1 air quality monitor measures PM2.5, PM10, number of particles, AQI, formaldehyde, TVOC, temperature and humidity. Equipped with histogram and data export function.

## Features

- All-In-One Reliable Air Quality Monitor**  
It shows a fully picture of Indoor Air Quality (IQA) by measuring PM2.5, PM10, particle numbers, AQI, HCHO, TVOC, temperature and humidity.
- Advanced Built in Sensors**  
This product is fast-responding and sensitive. It uses a American Temtop PM sensor, a British Dart formaldehyde sensor and a Swiss Sensirion Temperature & Humidity sensor.
- Data Fluctuation and Export**  
The histogram truly reflects the changing trend of each pollutant in the past 12 hours. You can check and export the historical data or CSV reports to your PC by using USB cable.
- Get Notifications**  
It will automatically alert you through colourful indicator when levels get too high.
- Easy to Use**  
One-click response, you can get pollutant index by single-click buttons and histogram by double click buttons.

## Technical Parameter

Item	LKC-1000S 2nd	LKC-1000S+ 2nd
Functions	PM2.5, PM10, Number of Particles, AQI, HCHO, Temperature and Humidity, Data Storage and Export	PM2.5, PM10, Number of Particles, AQI, HCHO, TVOC, Temperature and Humidity, Histogram, Data Storage and Export
Display	TFT color LCD screen	
Dimensions	177x65.5x32mm (6.9*2.6*1.2 in)	
Battery capacity	3000mAh	
Battery life	15-18h @ Backlight Level 2	
Input	DC5V, 1A	
Operating environment	Temperature: 0-50°C (32-122°F) Humidity : 0-90% RH	
PM2.5	Measuring range: 0-999µg/m³   Resolution: 0.1µg/m³ Accuracy: ±10µg/m³ (0-100µg/m³),   ±10% (100-500µg/m³)	
PM10	Measuring range: 0-999µg/m³   Resolution: 0.1µg/m³ Accuracy: ±15µg/m³ (0-100µg/m³),   ±15% (100-500µg/m³)	
HCHO	Measuring range: 0-2mg/m³ Resolution: 0.01mg/m³	
TVOC	/	Measuring range: 0-5mg/m³ Resolution: 0.01mg/m³
Temperature	Range: 0-50°C (32-122°F) Accuracy: ±1°C (±1.8°F)	
Humidity	Range: 0-90%RH   Accuracy: ±5%RH	

## Application Scenario



Indoor air quality monitoring



Outdoor air quality monitoring



Household



Business center



# Handheld Air Quality Monitor

## P600

2-in-1 advanced air quality monitor measures PM2.5 and PM10

## Features

- **Advanced Built in Sensors**  
Adopts Temtop US global sensor brand, provides stable and precise measurement.
- **Easy to Use**  
Individual press button retrieves the status of air pollutants easily with just one click.
- **Know at Glance**  
Histogram function reflects the changing curve of pollutant concentration in the last 12 hours.
- **Convenient design**  
Equipped with a back-stand, which support handheld or desktop placement.
- **Multi-scene Use**  
Reliable and durable with anti-drop structure engineering design. Perfect for household, office and other application.

Technical Parameter	
Item	P600
Functions	PM2.5, PM10, Histogram
Display mode	TFT color LCD scree
Overall dimension	177x65.5x32mm (6.9*2.6*1.2 in)
Battery capacity	3000mAh
Battery life	6-8h
Input	DC5V, 1A
Temperature range	0-50°C (32-122°F)
Humidity range	0-90% RH
Air pressure	1atm
PM2.5	Measuring range: 0-999µg/m³ Resolution: 0.1µg/m³ Accuracy: ±10µg/m³ (0-100µg/m³), ±10% (100-500µg/m³)
PM10	Measuring range: 0-999µg/m³ Resolution: 0.1µg/m³ Accuracy: ±15µg/m³ (0-100µg/m³), ±15% (100-500µg/m³)

## Application Scenario



Indoor air quality monitoring



Outdoor air quality monitoring



Household



Business center



# Handheld Air Quality Monitor

## Airing-2000

The Airing-2000 multi-functional handheld particulate matter quality monitor is suitable for rapid monitoring and assessment of indoor air quality, outdoor air quality, family homes, commercial buildings and other scenarios.

## Features

- **Multifunctional Monitor**  
Handheld particulate matter monitor with PM2.5, PM10, TSP, temperature and humidity, histogram and historical data export.
- **Advanced Built in Sensors**  
The use of the United States Temtop, Sensirion and other global sensor brands and specially designed air ducts, designed for high-precision testing.
- **Know at Glance**  
Histogram function reflects the changing curve of pollutant concentration in the last 12 hours.
- **Easy to Use**  
Built-in lithium battery, long standby time, TFT large screen display, data view clearer.
- **Powerful Data Storage Capacity**  
Large capacity data storage, data files can be exported via USB interface.
- **Multi-scene Use**  
Ergonomic design and engineering-grade drop-proof structure are more suitable for business and industry and other scenarios.

## Technical Parameter

Item	Airing-2000
Functions	1μm, 2.5μm, 10μm, PM2.5, PM10, TSP, Temperature and Humidity
Display	TFT color LCD screen
Dimensions	228x115x70mm (9*4.5*2.8 in)
Battery capacity	3500mAh
Battery life	>4h
Input	DC5V, 1A
Operating environment	Temperature: 0-50°C(32-122°F); Humidity: 0-90%RH
Air pressure	Measurement range: 0-3000000p/L Accuracy: 1p/L
PM2.5	Measuring range: 0-9999.9μg/m³ Resolution: 0.1μg/m³ Accuracy: ±10μg/m³ (0-100μg/m³), ±10% (>100μg/m³)
PM10	Measuring range: 0-9999.9μg/m³ Resolution: 0.1μg/m³ Accuracy: ±15μg/m³ (0-100μg/m³), ±15% (>100μg/m³)
TSP	Measuring range: 0-9999.9μg/m³ Resolution: 0.1μg/m³ Accuracy: ±20μg/m³ (0-100μg/m³), ±20% (>100μg/m³)
Temperature	Range: 0-50°C (32-122°F) Resolution: 0.1°C (0.1°F) Accuracy: ±0.5°C (±0.9°F)
Humidity	Range: 0-90%RH Resolution: 0.1% Accuracy: ±3%RH

## Application Scenario



Indoor air quality monitoring



Outdoor air quality monitoring



Household



Business center





# Particle Counter

## PMD 331

Professional particle counter monitoring particles from 0.3µm to 10µm

## Features

- Handheld Particle Counter**  
Adopts Temtop Mie-scattering sensor to detect 7 different particles sizes, including 0.3µm, 0.5µm, 0.7µm, 1µm, 2.5µm, 5µm, and 10µm to ensure the environment cleanliness meets your requirements.
- ISO 21501 Certified**  
PMD 331 comes with a Temtop calibration certificate that meets the standards of ISO-21501, NIST. And combines with German Furgut pump, Parker filter and other worldwide suppliers to ensure accuracy and professionalism.
- 2-Year Free Calibration**  
Temtop provides a 5-year warranty, and 2-YEAR FREE calibration service. Zero calibration and flow rate calibration functions are also provided for your routine use (refer to user manual).
- Easy to Read & Export**  
4" large screen allows everyone to see all 7 channels' particle numbers at a glance. Built-in 2,000,000 sets of data storage and support direct export to your PC via USB cable for further analysis.
- Easy to Carry**  
PMD 331 professional particle counter weighs less than 1kg. Great for carrying around and suitable for rapid on-site monitoring.

Technical Parameter		
Item	Parameter	Remark
Functions	0.3µm, 0.5µm, 0.7µm, 1.0µm, 2.5µm, 5.0µm, 10.0µm	Both detection and display
Measurement Range	3000000CF	/
Accuracy	±10%	Calibrate aerosol
Principle	Light scattering technique	/
Light Source	50mW, 780nm	/
Sampling Time	3-60s	Settable
Flow	2.83L/min	Error ±5%
Display	4.0" TFT LCD screen	/
Communication	USB/RS-232	/
Memory	2000000 readings	/
Battery	Rechargeable lithium battery	/
Charging Time	3.5h	Under normal conditions
Operating Time	8h	Continuous operation
Operating Temperature	0~50°C	/
Storage Temperature	-20~60°C	/
Monitor Dimensions	170mm x 110mm x 48mm	Not include intake duct and protective case
Weight	850g	/

## Application Scenario



Hospitals



Airports



Clean Room



Laboratory



Aviation



Dental Clinics



# Aerosol Monitor

## PMD 351

Professional aerosol dust monitor detecting PM1, PM2.5, PM4, PM10 and TSP.

## Features

- 5-channel particle size monitoring**  
Adopts the Mie-scattering principle to detect the concentration of 5 different particles, including PM1, PM 2.5, PM4, PM10 and TSP.
- Accurate Detection**  
PMD 351 comes with a Temtop calibration certificate and combines with German Furgut pump, Parker filter and other worldwide suppliers to ensure accuracy and professionalism.
- 2-Year Free Calibration**  
Temtop provides a 5-year warranty, and 2-YEAR FREE calibration service. Zero calibration and flow rate calibration functions are also provided for your routine use (refer to user manual).
- Easy to Read & Export**  
4" large screen allows everyone to see all 5 channels' particle numbers at a glance. Built-in 2,000,000 sets of data storage and support direct export to your PC via USB cable for further analysis.
- Easy to Carry**  
PMD 351 professional particle counter weighs less than 1kg. Great for carrying around and suitable for rapid on-site monitoring.

Technical Parameter		
Item	Parameter	Remark
Functions	PM1, PM2.5, PM4, PM10, TSP	Display at the same time
Measurement Range	0~10,000µg/m³	/
Accuracy	±10%	Calibrate Aerosol
Resolution	0.1µg/m³	/
Principle	Light Scattering technique	/
Light Source	50mW, 780nm	/
Sampling Time	1min	/
Flow	2.83 L/min	Error ±5%
Display	4.0" TFT LCD screen	/
Communication	USB/RS232	/
Memory	2,000,000 readings	/
Battery	Rechargeable lithium battery	/
Charging Time	3.5h	Under normal conditions
Operating Time	8h	Continuous operation
Operating Temperature	0~50°C	/
Storage Temperature	-20~60°C	/
Monitor Dimensions	170mm x 110mm x 48mm	Not include intake duct and protective case
Weight	850g	/

## Application Scenario



Hospitals



Airports



Mines



Aviation



Weather Bureau



# Partice Counter and Aerosol dust monitor

## 2 IN 1 PMD 371

Specialist particle counters monitor particles from 0.3 microns to 10 microns; real-time monitoring of PM1, PM2.5, PM4, PM10 and TSP mass concentrations.

## Features

- Handheld, 2-in-1**  
The Temtop Mie scattering sensor detects 7 different particle sizes including 0.3µm, 0.5µm, 0.7µm, 1µm, 2.5µm, 5µm and 10µm to ensure the environment is as clean as you want it to be. Simultaneously detects the concentration of 5 different particles including PM1, PM2.5, PM4, PM10 and TSP.
- ISO 21501 Certified**  
PMD 371 comes with a Temtop calibration certificate that meets the standards of ISO-21501, NIST. And combines with German Furgut pump, Parker filter and other worldwide suppliers to ensure accuracy and professionalism.
- 2-Year Free Calibration**  
Temtop provides a 5-year warranty, and 2-YEAR FREE calibration service. Zero calibration and flow rate calibration functions are also provided for your routine use (refer to user manual).
- Easy to Read & Export**  
4" large screen allows everyone to see all 7 channels' particle numbers at a glance. Built-in 2,000,000 sets of data storage and support direct export to your PC via USB cable for further analysis.
- Easy to Carry**  
PMD 371 professional particle counter weighs less than 1kg. Great for carrying around and suitable for rapid on-site monitoring.

Technical Parameter		
Item	Parameter	Remark
Functions	0.3µm, 0.5µm, 0.7µm, 1.0µm, 2.5µm, 5.0µm, 10.0µm PM1.0, PM2.5, PM4.0, PM10, TSP	Display at the same time
Measurement Range	3000000CF	/
Accuracy	±10%	Calibrate aerosol
Principle	Light scattering technique	/
Light Source	50mW, 780nm	/
Sampling Time	1min	/
Flow	2.83L/min ±5%	Error ±5%
Display	4.0" TFT LCD screen	/
Communication	USB/RS-232	/
Memory	2000000 readings	/
Battery	Rechargeable lithium battery	/
Charging Time	3.5h	Under normal conditions
Operating Time	8h	Continuous operation
Operating Temperature	0~50°C	/
Storage Temperature	-20~60°C	/
Monitor Dimensions	170mm x 110mm x 48mm	Not include intake duct and protective case
Weight	850g	/

## Application Scenario



Hospitals



Airports



Clean Room



Laboratory



Aviation



Dental Clinics



# Fan Type Particle Sensor

## PM 300/ 500/ 900

The fan-type laser particulate sensors are designed to monitor the particulate mass concentration, and are available in a variety of sizes and air inlet and outlet orientations for a wide range of applications such as air purifiers, air quality detectors, and fresh air systems.



## Features

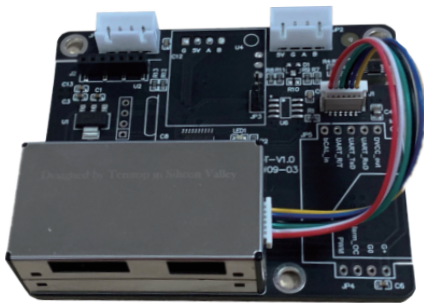
- **Multi-particle Concentration Monitoring**  
High-performance laser module for accurate measurement of PM1, PM2.5 and PM10.
- **Variety of sizes**  
Multiple sizes, in and out closures, easy and quick to integrate and install.
- **Durable**  
Adopt industrial grade raw materials, continuously operation more than 30,000 hours.

Technical Parameter			
Item	PM 900 / 900M	PM 500	PM 300
Particle Size Range	PM1, PM2.5, PM10		
Measurement Range	0~999µg/m³		
Accuracy	±10µg/m³(0~100µg/m³); ±10%(>100µg/m³)		
Laser Source	5mW, 650nm		
Sampling Time	<1.5 sec		
Communication Interface	UART@3.3V		
Working Voltage	DC 5V±0.1V		
Working Current	<100mA		
Lifespan	>30,000 hours		
Air Inlet/Outlet	Side inlet/outlet (same direction) / Front inlet/outlet (same direction)	Side inlet/outlet (different direction)	
Dimension	48mm x 37mm x 12mm	42.4mm x 35.4mm x 42.3mm	50mm x 43mm x 20mm

# Integrated Sensor Module

## PM 1T/ 2T

PM-1T/2T is a comprehensive sensor module that integrates multiple sensors, suitable for air conditioning, fresh air, air purifier multi-scenarios as well as and smart home and other places.



## Features

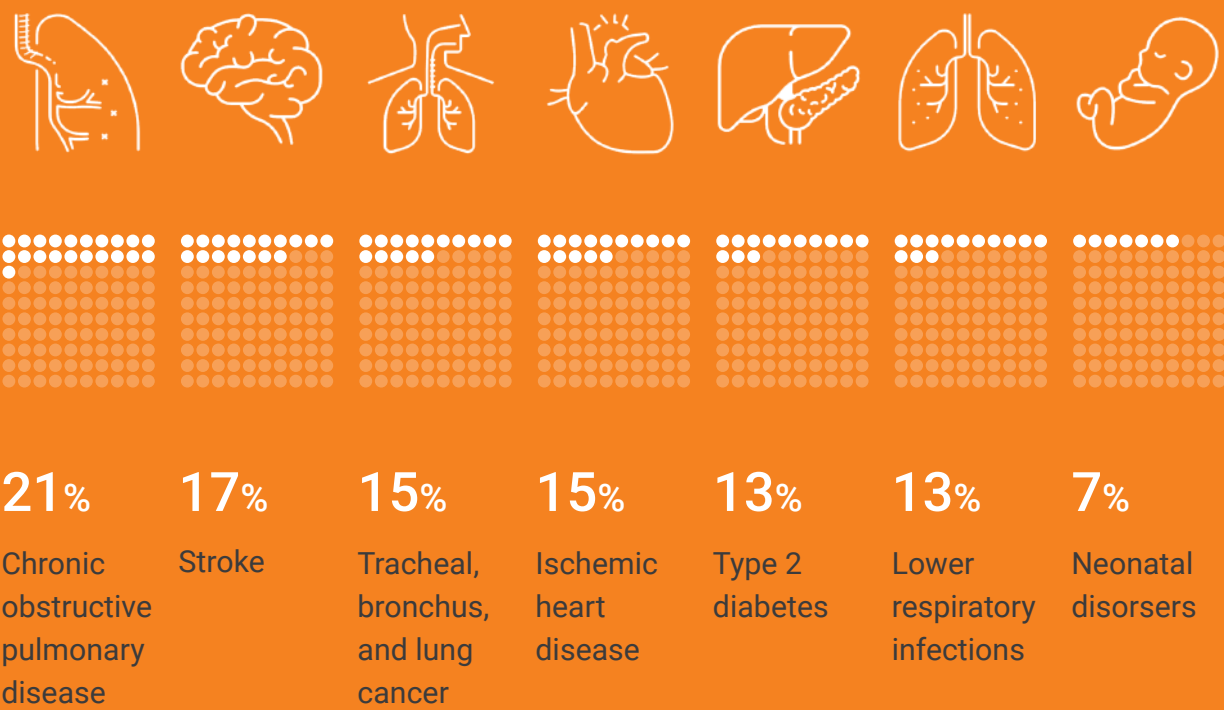
- **Measurement Accuracy**  
Good linearity, small zero drift, good selectivity, high sensitivity.
- **Durable**  
Long life and low power consumption, convenient for users to monitor for a long time.
- **Strong Expandability**  
Reserved CO2 and formaldehyde sensor interface, convenient for subsequent expansion.

Technical Parameter		
Item	PM-1T	PM-2T
Functions	PM2.5, PM10, Temperature and Humidity	PM2.5, PM10, VOC, Temperature and Humidity
PM2.5/10	Measuring range: 0-999µg/m³    Resolution: 1µg/m³ Measurement accuracy: ±10ug/m³(0-100µg/m³), ±10%(100-500µg/m³), ±15% (>500µg/m³)	
Temperature	Measuring range: -40~125°C    Resolution: 0.01°C Measurement accuracy: ±0.5°C(<0°C or 90~125°C), ±0.3°C(0~90°C)	
Humidity	Measuring range: 0-100%RH    Resolution: 0.01%RH Measurement accuracy: ±2.5%RH(0~90%RH), ±3.5%RH(90~100%RH)	
VOC	/	Measuring range: 0-10000µg/m³ Resolution: 1µg/m³
Communication method	TTL	
Measuring principle	Light Scattering	
Operating voltage	5V, (DC 5.0)	
Operating current	110(average current)	120(average current)
Preheating time	/	≤3min
Weights	55g	60g
Product Size	71mm x 62mm x 16mm	

### Fine Particles 2.5 Microns (PM2.5)

Air Pollution is a major global health crisis and causes one in nine deaths worldwide. Exposure to PM2.5 reduced average global life expectancy by approximately one year in 2019.

Percent of deaths from each disease attributable to fine particle outdoor air pollution in 2019.



### AQI (Air Quality Index)

AQI is a quick guide on air quality levels. It aims to indicate how clean or polluted the air is in a way that's easy to understand. It ranges from 0 to 500 that higher values indicate higher air pollution levels and more adverse for health. AQI assessment can be indicated for PM2.5, PM10, O<sub>3</sub>, SO<sub>2</sub>, NO<sub>2</sub>, CO etc. Temtop follows EPA Standards to calculate and focus only for AQI of PM2.5&10.

### CO<sub>2</sub> (Carbon Dioxide)

CO<sub>2</sub> refers to a colorless and odorless gas that is usually derived from the breath of humans and animals. High CO<sub>2</sub> concentration means that fresh air or ventilation is required; otherwise, it may cause problems such as drowsiness, dizziness, loss of attention, and cognitive impairment.

### TVOC (Total Volatile Organic Compounds)

TVOC (Total Volatile Organic Compounds) refers to various common VOCs including benzene, toluene, styrene, formaldehyde and etc. Due to their volatility as well as toxicity, irritability and carcinogenicity, long-term exposure to TVOCs can cause damage to the skin, liver, kidneys, central nervous system and etc.

### Temperature & Humidity

may often be ignored however they do have a significant impact on individual's well-being, comfort, health and safety as well as your property. High humidity may lead to an increase in household air pollutants especially the biological contaminants such as molds, bacteria, viruses and dust mites; cold, low humidity may cause nosebleeds, skin and respiratory irritations, dyspnea, static electricity and etc.

