Temtop

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TEMTOP
LASER PARTICLE SENSOR

Temtop is headquartered in San Jose, California, and has offices and sales locations worldwide.
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We sincerely ensure that all the information in this document is up-to-date at the time of publication. However, some photos depict prototypes or early-stage instruments, and the final product may differ from what is shown. Specifications, parameters, and features may be subject to change. Please consult your sales representative for the most recent documentation and information.

GLOBAL LAYOUT

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Elitech China

Global Manufacturing Base

For the latest information on more products, please visit our website.

www.temtopus.com

Temtop
Innovation Preceding All

Temtop Environmental Technology Co., Ltd. is a subsidiary of Elitech Technology, Inc., based in the United States.

ABOUT TEMTOP

Temtop Environmental Technology Co., Ltd. is a subsidiary of Elitech Technology, Inc., based in the United States.
We are committed to providing optical scattering particle sensor technology and key environmental monitoring instruments, aiming to offer a one-stop solution for particulate matter monitoring to users worldwide.

INNOVATION PRECEDING ALL

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

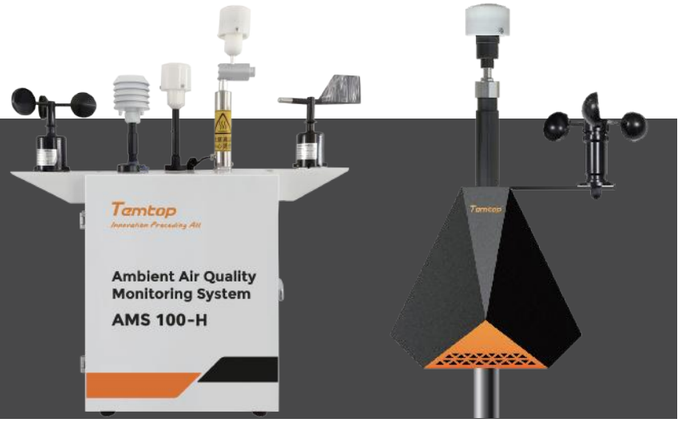
Technical Support

Software and Cloud

CONTENTS

Ambient Air Quality Monitoring Station

AMS 100/ 200



AMS 100 AMS 200

Description

AMS series environmental air quality monitoring system, a special design for real-time and accurate monitoring of outdoor environmental pollutants.

Features

- **Comprehensive Monitoring and Precise Control**
  The standard configuration can monitor six parameters of PM2.5, PM10, SO_2, CO, NO_2 and O_3, as well as five meteorological parameters of temperature, humidity, atmospheric pressure, wind speed and wind direction.
- **Personalized Customization Services**
  It is highly scalable and can meet users needs for various gas types, environmental parameters and function customization.
- **Easy to Install**
  Standard installation interface, internal integration of 7-inch hd touch screen, less than 10min to complete the installation and setting.
- **Easy Calibration**
  Remote adjustment of baseline and span for easy calibration.
- **Air Quality Platform**
  Visualize, analyze, and manage your data in the cloud.

Technical Parameter Table

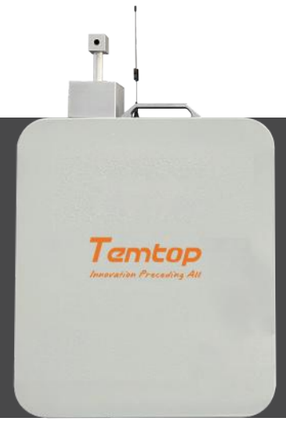
Model	AMS 100	AMS 200
Gas Parameter	PM2.5, PM10, O_3, NO_2, CO, SO_2, Optional TVOC, H_2S	PM2.5, PM10, O_3, NO_2, CO, SO_2, Optional TVOC, H_2S, NH_3, CH_4
Meteorologic Parameter	Temperature, Humidity, Atmospheric Pressure, Can Be Selected Wind Speed, Wind Direction, Noise	Temperature, Humidity, Atmospheric Pressure, Can Be Selected Wind Speed, Wind Direction, Noise, light, rainfall, vibration
Range And Error	PM2.5: 0~1000μg/m³, ±15% PM10: 0~1000μg/m³, ±15% O3: 0~500ppb, 5%FS NO2: 0~500ppb, 5%FS CO: 0~20ppm, 5%FS SO2: 0~500ppb, 5%FS	
Communication	4G (Default) Ethernet Modbus RTU 485	
Operational Environment	-20°C ~ 60°C 0 ~ 99%RH (Non-condensing)	
Source	110~220V	110~220V or 12VDC
Internal Batteries	/	Lithium Battery 12h Or More
Solar Energy	/	Support, Optional
Classification Of Waterproof	IP55	

Application Scenario

Urban Monitoring
Ports and Airports
Industrial Monitoring
Public Environment

Odor and VOC Ambient Air Measurement System

AMS Odor/ AMS VOC



Technical Parameter Table

Model	AMS VOC	AMS Odor
Principles of Monitoring	PID (Photoionization)	Electrochemistry
Monitoring Parameter	VOCs (Total Volatile Organic Compounds)	Methanethiol, Methyldisulfide, Hydrogen Sulfide, Ammonia, Styrene, etc.
Range Ability	Typical Value: 0-1000ppm (Customizable Extension)	Single Factor Range: 0-100ppm (Such As Hydrogen Sulfide, Ammonia)
Accuracy	± 3% Fs (Full Scale Accuracy)	±5% Fs (Partial Gas Up To ±3%)
Response Time	Less Than 30 Seconds (Fast Response)	Less Than 60 Seconds (More Time For Complex Gas Combinations)
Out Parameter	VOCs Concentration, Temperature and Pressure Flow Data, Warning Signal of Exceeding The Standard	Concentrations of Each Factor, Odor Index and Meteorological Parameters
Application Scenarios	Fixed Pollution Sources, Factory Boundaries and Chemical Industrial Parks	Wastewater Treatment Plant, Landfill, Biopharmaceutical Plant

Description

The equipment is designed for pollutant emission monitoring, which can simultaneously monitor the total VOC and malodorous pollutants such as benzene, toluene and xylene in real time.

Features

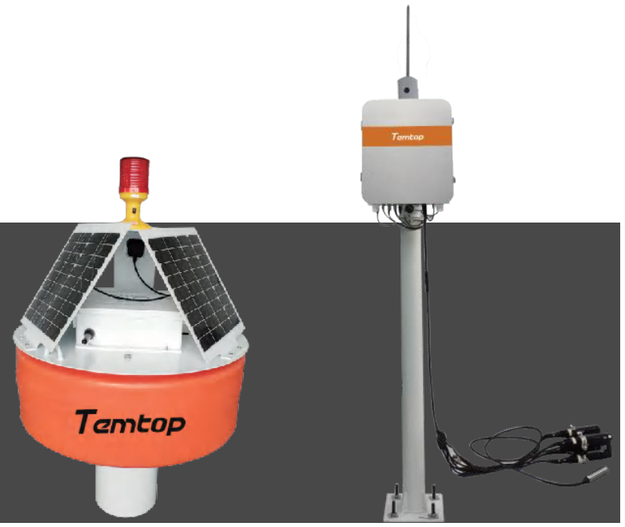
- **Comprehensive Monitoring and Precise Control**
  It can monitor the total VOC and 8 kinds of malodorous pollutants such as benzene, toluene and xylene in real time at the same time, and customized parameters.
- **Adapt to Various Scenarios**
  It has strong expansibility, can meet the needs of users in multiple scenarios, suitable for fixed and mobile monitoring.
- **Quick Deployment**
  It is easy to install and operate, and can meet the needs of temporary distribution and emergency pollution source monitoring.
- **Easy to Use**
  It is convenient to operate, and can be used for rapid detection, component analysis, automatic sample retention and automatic zero calibration.
- **Air Quality Platform**
  Visualize, analyze, and manage your data in the cloud.

Application Scenario

Industrial Park | Gas Station | Garbage Disposal | Livestock Farming

Water Quality Monitoring Station

WMS 100/ 200



WMS 100 WMS 200

Description

Real-time monitoring of a variety of water quality parameters, typically deployed in rivers, lakes, reservoirs and oceans.

Features

- **Comprehensive Monitoring and Precise Control**
  At the same time, dissolved oxygen, pH, turbidity, temperature, conductivity, REDOX potential and so on can be monitored, which can be customized.
- **Material is Corrosion Resistant**
  The freshwater sensor is made of standard PVC material; the Marine environment sensor is made of alloy material, corrosion resistant.
- **Power Supply is Convenient**
  Solar power supply, can be used continuously for 5 days in rainy weather.
- **Easy to Maintain**
  The sensor is equipped with a cleaning brush and can clean itself at regular intervals.
- **Air Quality Platform**
  Visualize, analyze, and manage your data in the cloud.

Technical Parameter Table

Model	WMS 100	WMS 200
Product Name	Floating Online Water Quality Monitoring System for Reservoir Open Channel	Flood Disaster Online Monitoring and Early Warning System
Monitoring Parameter	Temperature, Chromaticity, Turbidity, pH Value, Conductivity, Suspended Solids, Dissolved Oxygen, Chemical Oxygen Demand, Biochemical Oxygen Demand	Water Level, Flow Rate, Rainfall, Water Accumulation, Meteorological Parameters
Parameter Range And Accuracy	Temperature: -50℃~150℃, Accuracy ±0.5℃ pH: 0~14, Accuracy ±0.01 Conductivity: 0~20000Ms/cm, Accuracy ±1% Dissolved Oxygen: 0~20mg/l, Accuracy ±0.3mg/l Cod: 0~2000mg/l, Accuracy ±5% Turbidity: 0~1000ntu, Accuracy ±2% Suspended Matter: 0~1000mg/l, Accuracy ±5%	Water Level: 0~10m, Accuracy ±1% Flow Rate: 0.05~5m/s, Accuracy ±2% Rainfall: 0~400mm / Day, Accuracy ±4% Water Accumulation: 0~2m, Accuracy ±1% Meteorological Parameters (Optional): Temperature: -40℃~85℃, Accuracy ±0.5℃ Humidity: 0~100% Rh, Accuracy ±5% Wind Speed: 0~70m/s, Accuracy ±0.3m/s
System Function	Real-time Online Monitoring of Water Quality Parameters Data Automatic Collection and Analysis Support Remote Monitoring and Data Upload	Rainfall / Water Level / Flow Rate Real-time Monitoring Automatic Alarm and SMS Notification Video Surveillance (Optional)
Data Transmission Mode	4G Wireless Network Transmission	4G Wireless Network Transmission
Alarm Function	Automatic Alarm When Threshold Is Exceeded	Water Level / Rainfall / Flow Rate Limit Automatic Alarm
Extended Capabilities	Extensible Water Quality Monitoring Module	Extensible Water Quality Monitoring Module and Wireless Early Warning Broadcast
Application Scenarios	Water Quality Monitoring of Reservoirs, Open Channels, Lakes and Other Waters	Urban Flood Control, River Management, Mountain Flood Warning, Waterlogging Monitoring

Application Scenario

Aquaculture Monitoring
Natural Water Area Monitoring
Urban Water Use Monitoring
Marine Environment Monitoring

Weather Station

M100WS
W1/ W2

Description

The multifunctional weather station is capable of monitoring a variety of outdoor air and meteorological parameters, as well as indoor air quality.

Features

- **Precise Real-time Monitoring to Cope with Changing Weather**

  Provide key data such as indoor and outdoor temperature, humidity, wind speed, rainfall, air pressure and so on with professional accuracy (such as ±0.5˚C temperature control) to help families predict extreme weather (such as blizzard, rainstorm, high temperature).
- **Multiple Monitoring Parameters are Selected to Meet the Diverse Needs of Families**

  Optional functions such as uv index, soil moisture content (suitable for gardens/vegetable farm), air quality monitoring, etc., cover the needs of health, farming, outdoor activities and other scenarios. Some models support astronomical data (lunar phase, sunrise time) to meet the needs of camping, photography and other enthusiasts.
- **Wireless Network, Intelligent Early Warning, Remote Control is Convenient**

  Through LoRa and Wi-Fi/synchronization to mobile APP and Web, it supports remote viewing of historical data and real-time alerts. Custom threshold triggers notifications to improve the efficiency of home security management.
- **Low Power Consumption Design, Long-term Peace of Mind**

  The sensor uses low power technology (such as CR2032 battery powered for 2 years), and some high-end models support solar charging to reduce maintenance costs.
- **Minimal Installation, Weather Resistant Structure Design, Extreme Environment Adaptation**

  Wireless sensors are plug and play and support DIY installation (no wiring required).

  The sensor shell has an IP67 waterproof rating, low temperature resistance (-40˚F/-40˚C) and UV aging resistance.

Technical Parameter Table

Model	M100WS & W1	M100WS & W2
Indoor Temperature	Range: 0 to 60°C/(32 to 140°F); Resolution: 0.1°C(°F); Accuracy: ±1°C/(±2°F)	
Outdoor Temperature	Range:-40 to 60°C/ (-40 to 140°F); Accuracy: ±1°C/(±2°F);	
Indoor Humidity	Range: 10 to 99 %; Resolution: 0.1% Accuracy: ± 5% (at 20 to 90%);	
Indoor Humidity	Range: 10 to 99 %; Resolution: 0.1%; Accuracy: ±5% (at 20 to 90%)	
UV Index	Range: 1 to 15; Accuracy: ±1	
Sunlight	Range: 0 to 200K lux; Accuracy: ±15%	
Rain	Range: 0 to 9999mm; Accuracy: <15mm:±7% (15mm~9999mm)	
Wind Direction	Range: 0 - 360º; Resolution: 1º; Accuracy: ±10º (16 point compass)	
Wind Speed	Range: 2m/s~10m/s; Resolution: 0.1m/s; Accuracy: ±0.3m/s	
Barometric Pressure	Range: 300 to 1100hpa; Resolution: 0.1 hpa; Accuracy: ±3 hpa	
Other Indoor Parameters	PM2.5, PM10, AQI, CO_2, TVOC	
Optional Parameters	O_3, NO_2, CO, SO_2, PM2.5, PM10, Soil Moisture Content	
Classification of Waterproof	IP67	

Application Scenario

Indoor Air Quality Monitoring

Outdoor Air Quality Monitoring

Vegetable Farm

farming

Gardens

Particle Counter

PMD 331

5 Years Global Warranty *

2 Years Free Calibration **

Description

The PMD 331 is a handheld particle counter for monitoring particles ranging from 0.3 to 10 um. It is designed to provide a monitoring solution for clean spaces such as microchip, medical and other clean spaces, and is widely used in cleanroom monitoring, filter and media testing, industrial measurements, third-party evaluations and other multi-application scenarios.

Features

- **7 Channels Particle Size Monitoring**

  Simultaneous monitoring of 0.3μm, 0.5μm, 0.7μm, 1μm, 2.5μm, 5μm, 10μm, seven channels of particle size data, sampling time from 3 seconds to 1 minute adjustable.

- **Handheld Models**

  The weight of the whole machine is less than 1KG, easy to carry. It is very suitable for on-site rapid monitoring, single-point data collection and other scenarios.

- **Strong Anti-interference**

  Adopt all-metal precision optomechanical structure design for anti-interference.

- **Intuitive Operation**

  Large 4-inch screen, 7-channel particle size data can be grasped by one key; equipped with 7 independent buttons for quick calibration, setup and export operations.

- **Easy to Export**

  Built-in 2 million groups of data storage capacity, without USB cable can be U disk directly export data; at the same time support RS485 communication interface.

- **High Capacity Battery**

  High-performance lithium battery, 8 hours continuous uninterrupted operation after fully charged.

- **Certification and Calibration**

  CE,ISO 21501,JF1190-2008 standard (China)

Technical Parameter Table

Model	PMD 331	Note
Particle Size Range	0.3μm, 0.5μm, 0.7μm, 1.0μm, 2.5μm, 5.0μm, 10μm	Simultaneous Measurement and Display
Accuracy	0.3μm: 50%; ≥0.5μm: 100%	/
Resolution	1P	/L, /TC, /CF, /m³
Flow Rate	2.83 L/min	Accuracy ±5%
Principle	Light Scattering	/
Laser Source	Long Life Laser Diode 50mW, 780nm	/
Sampling Time	3s ~ 60s	Settable
Demonstrate	4 inch TFT LCD	/
Communication Method	USB/RS-485	/
Memory	2,000,000 data	/
Batteries	Rechargeable Lithium Battery	/
Charging Time	3.5h	/
Working Temperature	0 ~ 50°C	/
Storage Temperature	-20 ~ 60°C	/
Dimension	170mm x 110mm x 48mm	Exclude Inlet & Outlet Terminal
Weight	850g	/

* Warranty: During the warranty period, if any defect is found in the product, it can be replaced with a new one or repaired. The warranty does not cover instruments that have been altered or modified by misuse, negligence, accidents, acts of nature, or by any company other than 'Temtop'.

**Calibration: Temtop will provide one calibration service free of charge during the first year of the warranty period, with shipping costs to be paid by the customer. The calibrated instrument must not be contaminated by sampling chemicals, biological or radioactive contaminants, and the customer shall pay for the disposal of the calibrated equipment if such contamination is present.

Application Scenario

- Filter Test
- Filter Material Test
- Clean Room Monitoring
- Indoor Air Quality Monitoring
- Industrial Measurement
- QA Department

Aerosol Monitor

PMD 351

5 Years Global Warranty *

2 Years Free Calibration **

Description

The PMD 351 is a handheld aerosol monitor designed to provide a solution for rapid on-site monitoring and single point data collection applications. It is widely used in occupational health, point source monitoring, outdoor atmospheric, HVAC systems and other scenarios.

Features

- **5 Channels Particle Size Monitoring**

  It can simultaneously monitor the mass concentration of PM1, PM2.5, PM4, PM10 and TSP particulate matter in five channels with a sampling time of 1 minute.
- **Handheld Models**

  The weight of the whole machine is less than 1KG, easy to carry. It is very suitable for on-site rapid monitoring, single-point data collection and other scenarios.
- **Strong Anti-interference**

  Adopt all-metal precision optomechanical structure design for anti-interference.
- **Easy Handling**

  4-inch large screen, a key to master the five mass concentration; equipped with seven independent keys, can quickly calibrate, set up and export operations.
- **Easy to Export**

  Built-in 2 million groups of data storage capacity, without USB cable can be U disk directly export data; at the same time support RS485 communication interface.
- **High Capacity Battery**

  High-performance lithium battery, 8 hours continuous uninterrupted operation after fully charged.
- **Certification and Calibration**

  CE,ISO 21501,CPA(China)

Technical Parameter Table

Model	PMD 351	Note
Particle Size Range	PM_1, $PM_{2.5}$, PM_4, PM_{10}, TSP	Simultaneous Measurement and Display
Accuracy	±10%	Calibrate Aerosol
Flow Rate	2.83 L/min	Accuracy ±5%
Resolution	0.1μg/m³	/
Principle	Light Scattering	/
Laser Source	Long Life Laser Diode 50mW, 780nm	/
Sampling Time	60s	/
Demonstrate	4 inch TFT LCD	/
Communication Method	USB/RS-485	/
Memory	2,000,000 data	/
Batteries	Rechargeable Lithium Battery	/
Charging Time	3.5h	/
Working Temperature	0 ~ 50°C	/
Storage Temperature	-20 ~ 60°C	/
Dimension	170mm x 110mm x 48mm	Exclude Inlet & Outlet Terminal
Weight	850g	/

* Warranty: During the warranty period, if any defect is found in the product, it can be replaced with a new one or repaired. The warranty does not cover instruments that have been altered or modified by misuse, negligence, accidents, acts of nature, or by any company other than 'Temtop'.

**Calibration: Temtop will provide one calibration service free of charge during the first year of the warranty period, with shipping costs to be paid by the customer. The calibrated instrument must not be contaminated by sampling chemicals, biological or radioactive contaminants, and the customer shall pay for the disposal of the calibrated equipment if such contamination is present.

Application Scenario

Occupational Safety & Health

Outdoor Atmospheric Quality

Indoor Air Quality

Point Source Monitoring & Inspection

HVAC System

Industrial Production Process

Particle Counter & Aerosol Monitor

2 IN 1 PMD 371

5 Years Global Warranty *

2 Years Free Calibration **

Description

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 Table

Model	PMD 371	Note
Particle Size Range	0.3μm, 0.5μm, 0.7μm, 1.0μm, 2.5μm, 5.0μm, 10.0μm PM1.0, PM2.5, PM4.0, PM10, TSP	/
Accuracy	±10%	Calibrate Aerosol
Flow Rate	2.83 L/min	Accuracy ±5%
Principle	Light Scattering Technique	/
Laser Source	50mW, 780nm	/
Sampling Time	60s	Settable
Demonstrate	4 inch TFT LCD	/
Communication Method	USB/RS-485	/
Memory	2,000,000 data	/
Batteries	Rechargeable Lithium Battery	/
Charging Time	3.5h	Under Normal Conditions
Operating Time	8h	Continuous Operation
Working Temperature	0 ~ 50°C	/
Storage Temperature	-20 ~ 60°C	/
Dimension	170mm x 110mm x 48mm	Exclude Inlet & Outlet Terminal
Weight	850g	/

* Warranty: During the warranty period, if any defect is found in the product, it can be replaced with a new one or repaired. The warranty does not cover instruments that have been altered or modified by misuse, negligence, accidents, acts of nature, or by any company other than 'Temtop'.

**Calibration: Temtop will provide one calibration service free of charge during the first year of the warranty period, with shipping costs to be paid by the customer. The calibrated instrument must not be contaminated by sampling chemicals, biological or radioactive contaminants, and the customer shall pay for the disposal of the calibrated equipment if such contamination is present.

Application Scenario

- Filter Test
- Filter Material Test
- Clean Room Monitoring
- Indoor Air Quality Monitoring
- Industrial Measurement
- QA Department

Particle Counter

PMB 100/ 200/ 300

Technical Parameter Table

Model	PMB 100	PMB 200	PMB 300
Particle Size Range	0.3μm, 0.5μm, 0.7μm, 1.0μm, 2.5μm, 5.0μm, 10μm		
Unit	P/L, P/TC, P/CF, P/m³		
Counting Efficiencies	0.3μm: 50%; ≥0.5μm: 100%		
Flow Rate	2.83L/min(Accuracy ±5%)	28.3L/min(Accuracy ±5%)	50L/min(Accuracy ±5%)
Principle	Light Scattering		
Laser Source	Long Life Laser Diode 50mW, 780nm		
Laser Component Life	20,000h+		
Communication Method	RS485 etc.		
Working Voltage	12-24V		24V
Working Temperature	0 ~ 50°C		
Storage Temperature	-20 ~ 60°C		
Dimension	250mm x 220mm x 198mm		
Weights	7.5kg	8kg	9.5kg

Description

The PMB 100/ 200/ 300 Portable Particle Counters are specifically designed to provide solutions for the cleanroom monitoring industry.

Features

- **7 Channels Particle Size Monitoring**
  Simultaneously detect the particulate matter of 0.3μm, 0.5μm, 0.7μm, 1μm, 2.5μm, 5μm, 10μm with adjustable sampling time.
- **Efficient Sampling**
  Supports standard 2.83L/min or 28.3L/min sampling to ensure efficient sampling.
- **Easy to Read and Operate**
  Large 8" colour touch screen for easy reading and operation.
- **Reporting**
  ISO 14644-1,EU GMP & China GMP reports.
- **Data Retention**
  Data storage of more than 2 million items, integrated thermal printer to facilitate the printing of test reports.
- **Certified Calibration**
  Conforms to CE, ISO21501-4, JJF1190-2008 standards.

Application Scenario

Filter Test | Filter Material Test | Clean Room Monitoring | Indoor Air Quality Monitoring | Industrial Measurement | QA Department

Handheld Particulate Matter Monitor

AIRING-2000

Description

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	0.3μm，0.5μm，1μm，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, 2A
Operating Environment	Temperature: 0-50°C(32-122°F); Humidity: 0-99%RH
0.3μm/ 0.5μm/ 1μm	Measurement range：0-9999999p/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: ±10μg/m³ (0-100μg/m³), ±10% (>100μg/m³)
TSP	Measuring range: 0-9999.9μg/m³　Resolution: 0.1μg/m³ Accuracy: ±10μg/m³ (0-100μg/m³), ±10% (>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: 0-99%RH　Resolution: 0.1%　Accuracy: ±5%RH

Application Scenario

Indoor air quality monitoring
Outdoor air quality monitoring
Household
Business center

Handheld Air Quality Monitor

M2000 2nd/ M2000C 2nd

Description

Multifunctional handheld air quality monitor measures PM2.5, PM10, number of particles, CO_2 concentration, temperature & humidity and formaldehyde (Only for M2000 2nd).
Equipped with histogram and data export function.

Features

- **Multifunctional CO_2 Monitor**
  Updated CO_2 detector provides reliable results on air quality index, including CO_2, 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 CO_2 sensor, a Swiss Sensirion Temperature & Humidity sensor and a British Dart formaldehyde sensor (Only for M2000 2nd).
- **Get Notifications**
  Both products automatically alert you when the concentration is too high via a buzzer or indicator color bar.
- **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 CO_2 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, CO_2, HCHO, Temperature and Humidity	PM2.5, PM10, Number of Particles, CO_2, Temperature and Humidity
Data Storage and Export	√	√
Dimensions	223.5x73.5x37.5mm/8.8x2.8x1.4in.	
Battery Capactity	3000mAh	
Battery Life	6-8h	
Input	DC5V, 1A	
Operation Environment	Temperature range: 0-50°C (32-122°F) Humidity range: 0-90% RH	
PM2.5	Sensor: Laser PM sensor Measuring range: 0-999.9μg/m³ Resolution: 0.1μg/m³ Accuracy: ±10μg/m³ (0-100μg/m³), ±10% (100-500μg/m³)	
PM10	Sensor: Laser PM sensor Measuring range: 0-999.9μg/m³ Resolution: 0.1μg/m³ Accuracy: ±15μg/m³ (0-100μg/m³), ±15% (100-500μg/m³)	
Carbon Dioxide (CO_2)	Sensor: Non-Dispersive Infrared (NDIR) CO_2 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/ LKC-1000S+ 2nd

Description

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 indext 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: 0-999.9μg/m³ Resolution: 0.1μg/m³ Accuracy: ±10μg/m³ (0-100μg/m³), ±10% (100-500μg/m³)	
PM10	Measuring Range: 0-999.9μg/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

Automotive PM Sensor

PMV 10/ 100

Description

Vehicle air quality sensor can measurePM2.5.

Ability to conduct real-time detection of indoor air quality.

Features

- **Precise Measurement**
  Good linearity, small zero drift, very good selectivity, high sensitivity.
- **Durable and Long-lasting**
  Continuous operation >30,000 hours, low power consumption, convenient for users to monitor for a long time.
- **Easy to Integrate**
  Small size, easy to install.
- **Certificate of Authentication**
  IOS14001 and IATF16949 Certified

Technical Parameter Table

Model	PMV 10	PMV 100
Measure	0.3μm~2.5μm	
Algorithm	Particle size intelligent recognition algorithm, mass concentration inversion model, temperature compensation algorithm.	
Measuring Range	0~999μg/m³	
Certainty of Measurement	±10 (0-100μg/m³); ±10% (>100μg/m³)	
Response Time	<1s	
Time to First Rating	<10s	
Working Temperature	-40˚C~70˚C	
Storage Temperature	-40˚C~85˚C	
Working Voltage	9~16VDC (with voltage protection)	
Power Dissipation	≤0.8W	≤1.2W
Low Power Consumption	Static <100 μA	
Noise	<30dB (A)	
Communication Mode	CAN/LIN (default CAN)	
Life Length	>30000h	
Product Size	130.6*97.3*32.3mm (excluding pipes)	
Matching Harness Connector	Tyco 1473672	
Weight	117g ±3g	135g ±3g

Application Scenario

Automotive

Laser PM Sensor

PMS 10/ 12

Description

PMS 10/ 12 is a pump suction light scattering particle sensor, cost-effective four-channel particle size monitoring, compact size and easy to install.
Widely used in micro air stations, dust online and other atmospheric monitoring systems.

Features

- **Four-channel Particle Size Monitoring**
  Simultaneous monitoring of PM1, PM2.5, PM10, TSP particulate mass concentration with adjustable sampling time.
- **Pump-type High-efficiency Sampling**
  1.1L/min and 2.83L/min flow rate, not easy to accumulate dust at this rate.
- **Highly Efficient Dust Prevention**
  Unique dust-proof structure design is optional, which effectively extends the maintenance cycle by about 50%.
- **Operational Safeguards**
  Industrial-grade lasers, air pumps, and other core components that can run for approximately 10,000 hours.
- **High Anti-interference Capability**
  Adopting all-metal precision optical machine structure, stronger anti-interference performance.
- **Certificate of Authentication**
  CPA

Technical Parameter Table

Model	PMS 12	PMS 10	Note
Particle Size Range	PM_1, $PM_{2.5}$, PM_{10}, TSP		/
Measurement Range	0 ~ 50,000μg/m³		/
Accuracy	±10μg/m³ (0 ~ 100μg/m³); ±10% (>100μg/m³)		/
Resolution	1μg/m³		/
Flow Rate	2.83L/min	1.1L/min	Accuracy ±5%
Dustproof Construction	√		/
Principle	Light Scattering		/
Laser Source	Long Life Laser Diode 50mW, 780nm		/
Sampling Mode	Continuous Mode/Intermittent Mode		Settable, Continuous Mode by Default
Sampling Time	10s ~ 3,600s		Settable, 60sec by Default
Stable Time	<10s		Sampling Stable Time
Communication Method	RS485		Customizable
Working Voltage	12V		12 ~ 24 VDC
Working Current	300mA		Average Current
Working Temperature	0 ~ 50°C		/
Storage Temperature	-10 ~ 60°C		/
Lifespan	15,000h+	10,000h+	On Intermittent Mode
Dimension	145mm x 88mm x 38mm	133mm x 88mm x 38mm	Exclude Inlet & Outlet Terminal

Application Scenario

Dust Online | Mini Air Station | Industrial Park | Pollution Control | Emission Testing | Process Monitoring

Laser PM Sensor

PMS 20

Description

PMS 20 is a pump suction light scattering particulate matter sensor, configured with sheath gas and other multi-filtration structure, designed to provide solutions for high-end environmental monitoring industry. It is widely used in air monitoring systems such as micro-air stations, dust online, pollution emissions, industrial production and so on.

Features

- **4 Channels Particle Size Detection**
  Simultaneous monitoring of PM1, PM2.5, PM10, TSP particulate mass concentration with adjustable sampling time.
- **Pump-type High-efficiency Sampling**
  2.83L/min brushless vacuum pump, not easy to accumulate dust at this rate;high flow rate is more stable, more accurate measurement of various sizes of particles.
- **Sheath Gas Filtration**
  Built-in sheath gas and multi-channel filtration structure for up to 20,000+ hours of operation.
- **Calibration Zero**
  Zero calibration, calibration and other functions can be selected, easy to operate, more secure measurement.
- **Precision Calibration**
  Factory calibrated against the B-ray method, effectively reducing secondary calibration costs.
- **Certification**
  CPA

Technical Parameter Table

Model	PMS 20	Note
Particle Size Range	PM_1, $PM_{2.5}$, PM_{10}, TSP	/
Measurement Range	0 ~ 50,000μg/m³	/
Accuracy	±10μg/m³ (0 ~ 100μg/m³); ±10% (>100μg/m³)	/
Resolution	1μg/m³	/
Flow Rate	2.83 L/min	Accuracy ±5%
Principle	Light Scattering	/
Laser Source	Long Life Laser Diode 50mW, 780nm	/
Sampling Mode	Continuous Mode/Intermittent Mode	Settable, continuous mode by default
Sampling Time	10 ~ 3,600 sec	Settable, 60sec by default
Stable Time	<10s	Sampling Stable Time
Communication Method	RS485	Customizable
Working Voltage	12V	12 ~ 24 VDC
Working Current	400mA	Average Current
Working Temperature	0 ~ 50°C	/
Storage Temperature	-10 ~ 60°C	/
Lifespan	20,000h+	on intermittent mode
Dimension	190mm x 120mm x 70mm	Exclude inlet & outlet terminal

Application Scenario

Laser PM Sensor (External Vacuum Source)

PMS 1600 Series

Description

PMS 1600 series is a high concentration particulate matter sensor, cost-effective external air pump or fan particulate matter sensor, most suitable for ultra-high concentration scenarios: steel mills, cement and other highly polluted places.

Features

- **Multi-channel Particle Size Monitoring**
  Output dual-channel TSP, PM10, can be customized according to needs.
- **High Efficiency Dust Prevention**
  Ultra-high efficiency dust prevention, maintenance-free cycle increased by 5 times.
- **Easy Integration**
  Support external air pump or fan sampling method.
- **Certification**
  CPA

Technical Parameter Table

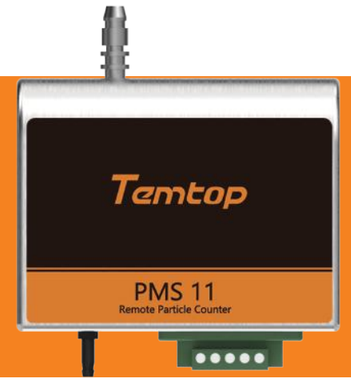
Model	PMS-1600	PMS-1600-F	Note
Particle Size Range	PM10, TSP		/
Measurement Range	0-100,000μg/m³		0-100mg/m³
Accuracy	±20%		/
Resolution	1μg/m³		/
Flow Rate	1.1 L/min		Customizable
Vacuum Source	External Air Pump or Fan Reguired	Built-in Air Pump	/
Principle	Light Scattering		/
Stable Time	＜1.5s		/
Communication Method	UART（TTL 3.3V）	RS485	/
Working Voltage	DC 5V	DC 12~24 V	/
Working Temperature	-10 ~ 60 °C		/
Working Humidity	0~99%RH		/
Atmospheric Pressure	86KPa~110KPa		/
Dimension	70.5mm x 44.2mm x 25.6mm	70.5mm x 89mm x 26mm	Exclude Inlet & Outlet Terminal

Application Scenario

Unorganised Emissions | Dust Online | Mini Air Station | Industrial Park | Pollution Control | Emission Testing

Remote Particle Counter
(Externalvacuum Source)

PMS 11



Description

High-precision particle counter, specifically designed to provide solutions for the high-purity monitoring industry.

Features

- **Multi-channel Particle Size Monitoring**
  Simultaneously monitors particle size data across five channels: 0.3μm, 0.5μm, 1μm, 5μm, and 10μm.
  The sampling time can be customized.
- **Optional External Air Pump**
  Supports an external air pump module with excellent cost performance. The default configuration includes a 2.83L/min air pump, with customization options available.
- **Easy Integration**
  Industrial standard interface for easier installation.
- **Strong Interference Resistance**
  Precision all-metal construction ensures stable operation in various environments.
- **Operational Reliability**
  Equipped with industrial-grade laser and other core components, with an operational lifespan of approximately 20,000 hours.
- **Accurate Calibration**
  Complies with ISO 21501 and JJF1190-2008 standards.

Technical Parameter Table

Model	PMS 11	Note
Particle Size Range	0.3μm, 0.5μm, 1.0μm, 5.0μm, 10μm	/
Accuracy	0.3μm: 50%; ≥0.5μm: 100%	/
Resolution	1P/L	/
Flow Rate	2.83L/min	Accuracy ±5%
Vacuum Source	External Air Pump	/
Principle	Light Scattering Method	/
Laser Source	Long Life Laser Diode 50mW, 780nm	/
Alarm Mode	Indicator Light	/
Sampling Time	Adjustable, 10 Seconds or More	/
Communication Method	RS485	Modbus RTU
Operating Temperature	0 ~ 50°C	/
Storage Temperature	-20 ~ 60°C	/
Operating Voltage	DC 5V	/
Operating Current	100mA	Average Current
Dimension	70mm x 110mm x 55mm	Excluding air inlet/outlet and terminal dimensions.

Application Scenario

Filter Test | Filter Material Test | Clean Room Monitoring | Indoor Air Quality Monitoring | Industrial Measurement | QA Department

Remote Particle Counter

PMS 21/ 31

Description

High-precision particle counter, specifically designed to provide solutions for the high-purity monitoring industry.

Features

- **Multi-channel Particle Size Monitoring**
  Capable of simultaneously monitoring particle size data across seven channels: 0.3μm, 0.5μm, 0.7μm, 1μm, 2.5μm, 5μm, and 10μm. The sampling time is adjustable.
- **Built-in Vacuum Source**
  Equipped with a built-in 2.83L/min air pump.
- **Easy Integration**
  Industrial standard interface for easier installation.
- **Strong Interference Resistance**
  Precision all-metal construction ensures stable operation in various environments.
- **Operational Reliability**
  Equipped with industrial-grade laser and other core components, with an operational lifespan of approximately 20,000 hours.
- **Accurate Calibration**
  Complies with ISO 21501 and JJF1190-2008 standards.

Technical Parameter Table

Model	PMS 21	PMS 31	Note
Particle Size Range	0.3μm, 0.5μm, 0.7μm, 1.0μm, 2.5μm, 5.0μm, 10μm		/
Accuracy	0.3μm: 50%; ≥0.5μm: 100%		/
Resolution	1P/L		/
Flow Rate	2.83L/min	28.3 L/min	Accuracy ±5%
Vacuum Source	Built-in Air Pump		/
Principle	Light Scattering Method		/
Laser Source	Long Life Laser Diode 50mW, 780nm		/
Alarm Mode	Indicator Light		/
Sampling Time	Adjustable, 10 Seconds or More		/
Communication Method	RS485		Modbus RTU
Operating Temperature	0 ~ 50°C		/
Storage Temperature	-20 ~ 60°C		/
Operating Voltage	DC 12 ~ 24V	DC 24V	/
Operating Current	800mA	3500mA	Average Current
Screen Display	5-inch TFT Screen		/
Dimension	120mm x 180mm x 80mm	290mm x 180mm x 100mm	Excluding air inlet/ outlet and terminal dimensions.

Application Scenario

Filter Test
Filter Material Test
Clean Room Monitoring
Indoor Air Quality Monitoring
Industrial Measurement
QA Department

Fan-type Laser PM Sensor

PM 1000/ 900/ 900M

PM 1000 PM 900 PM 900M

Description

The PM 1000/ PM 900 series is a fan-type laser particle sensor specially built for monitoring particle mass concentration. It is widely used in air purifiers, air quality monitors, air conditioning fresh air systems, atmospheric environmental protection and other application scenarios.

Features

- **Multi-particle Concentration Monitoring**
  High-performance laser module, accurate measurement of PM1, PM2.5, PM10.
- **Ultra-small Size**
  Ultra-thin 12mm size with recessed interface for quick and easy integration and installation.
- **More Anti-interference**
  Six-sided fully enclosed metal body, better anti-interference.
- **Easy to Use**
  Two air inlet and outlet directions, a variety of communication methods can be customised, applicable to a wider range of countries.
- **Durable**
  Made of industrial grade components, it can run for up to 30,000 hours or more.

Technical Parameter Table

Model	PM 1000	PM 900	PM 900M
Particle Size Range	PM_1, $PM_{2.5}$, PM_{10}		
Measurement Range	0~999μg/m³		
Accuracy	±10μg/m³ (0 ~ 100μg/m³); ±10% (>100μg/m³)		
Flow Rate	0.1L/min		
Resolution	1μg/m³		
Principle	Light Scattering		
Laser Source	5mW, 650nm		
Sampling Time	<1.5s		
Communication Method	UART (TTL 3.3V)		
Air Inlet/Outlet	Side Inlet/Outlet (same direction)		Front Inlet/Outlet (same direction)
Closed Fuselage	Fully enclosed on six sides		
Working Voltage	DC 5V±0.1V		
Working Current	<100mA		
Working Temperature	-10 ~ 60°C		
Working Humidity	0 ~ 95% RH (Non-condensing)		
Storage Temperature	-30 ~ 70°C		
Lifespan	30,000h+		
Dimension	38mm x 35mm x 12mm	48mm x 37mm x 12mm	

Application Scenario

Air Purifier
HVAC and Fresh Air System
Air Purification Integrated Equipment
Air Quality Monitoring system
Fresh Air System
Consumer Electronics Supporting Facilities

Fan-type Laser PM Sensor

PM 700/ 500/ 300/ 200

Description

More product series are designed for monitoring particulate mass concentration of fan-type laser particulate matter sensors, with a variety of product sizes and air inlet and outlet directions for choice, to better meet the needs of users. The unique calibration method and deep optimization algorithms of each product can output highly consistent particle mass concentration, which is more suitable for air purifiers, air quality detectors, fresh air systems, and other scenarios.

Features

- **Multi-particle Concentration Monitoring**
  High-performance laser module, accurate measurement of PM1, PM2.5, PM10.
- **Quick Installation**
  Embedded interface for quick and easy integration and installation.
- **More Resistant to Interference**
  Six-sided fully enclosed metal body for better interference resistance.
- **Easy to Use**
  Multiple inlet and outlet directions, and multiple communication methods can be customized for a wider range of applications.
- **Durable and Long-lasting**
  Made of industrial-grade components, it can run for up to 30,000 hours or more.

Technical Parameter Table

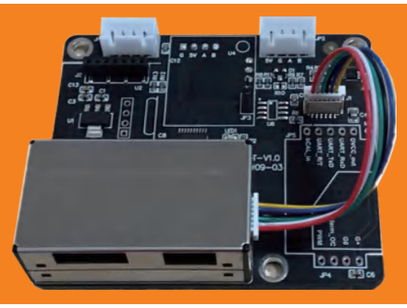
Model	PM 700	PM 500	PM 300	PM 200
Particle Size Range	PM1, PM2.5, PM10			
Measurement Range	0~999μg/m³			
Accuracy	±10μg/m³ (0 ~ 100μg/m³); ±10% (>100μg/m³)			
Resolution	1μg/m³			
Flow Rate	0.1L/min			
Principle	Light Scattering			
Laser Source	5mW, 650nm			
Sampling Time	<1.5s			
Communication Method	UART（TTL 3.3V）			
Air Inlet/Outlet	Front in/out (same side)	Side in/out (opposite side)		Side in/out (same side)
Closed Fuselage	Fully enclosed on six sides		Semi-closed on all sides	Fully enclosed on six sides
Working Voltage	5V±0.1V DC			
Working Current	<100mA			
Working Temperature	-10 ~ 60°C			
Working Humidity	0 ~ 95% RH (Non-condensing)			
Storage Temperature	-30 ~ 70°C			
Lifespan	Approx. 30,000h+			
Dimension	46mm x37mm x11mm	42.4mmx35.4mmx42.3mm	50mm x43mm x20mm	44.8mm x24mm x15.4mm

Application Scenario

- Air Purifier
- HVAC and Fresh Air System
- Air Purification Integrated Equipment
- Fresh Air System

Air Quality Sensor

PM-1T/ 2T



Description

PM-1T/ 2T is a comprehensive sensor module that integrates multiple sensors for multiple scenarios such as air conditioning, fresh air, air purifiers, and smart homes.

Features

- **Precision Measurement**
  Good linearity, small zero drift, good selectivity and high sensitivity.
- **Durability**
  Long life and low power consumption, convenient for users to monitor for a long time.
- **Easy to Integrate**
  Small size, easy installation and low cost make it convenient for customers for various applications.
- **Strong Scalability**
  Carbon dioxide and formaldehyde sensors will be reserved for later expansion.
- **Easy Communication**
  Three communication formats are supported, and the user can choose any one of them.

Technical Parameter Table

Model	PM-1T	PM-2T
Particle Size Range	PM2.5, PM10, Temperature and Humidity	PM2.5, PM10, VOC, Temperature and Humidity
PM2.5/10 Measuring Range	0~999μg/m³	
VOC Measuring Range	/	0~10000μg/m³
Temperature Measuring Range	-40 ~ 125°C	
Humidity Measuring Range	0 ~ 100%RH	
PM2.5/10 Measuring Accuracy	±10μg/m³ (0~100μg/m³), ±10% (100~500μg/m³), ±15% (>500μg/m³)	
Temperature Measuring Accuracy	±0.5°C (<0°C or 90~125°C),±0.3°C (0~90°C)	
Humidity Measuring Accuracy	±2.5%RH (0~90)%RH, ±3.5%RH (90~100)%RH	
PM2.5/10 Resolution	1μg/m³	
VOC Resolution	/	1μg/m³
Temperature Resolution	0.01°C	
Humidity Resolution	0.01%RH	
Preheating Time	/	≤3min
Principle	Light Scattering	
Communication Method	UART（TTL 3.3V）	
Working Voltage	5V (DC 5.0)	
Working Current	110mA (Average Current)	120mA (Average Current)
weights	39.1g	43.2g
Dimension	71mm x 62mm x 16mm	

Application Scenario

Air Purifier

HVAC and Fresh Air System

Air Purification Integrated Equipment

Fresh Air System

APPLICATION FIELD

We aim to provide reliable measurement and data analysis solutions for clients in various fields, contributing to global environmental monitoring and safety.

Temtop

Temtop has been dedicated to the research, development, and manufacturing of optical scattering particulate matter sensors, continuously providing a series of instruments for indoor, outdoor atmospheric monitoring, and clean spaces. We offer innovative and accurate particulate matter monitoring sensors and system solutions to users worldwide.

Our particle instruments range from 0.2μm to 100μm and are widely used in various research and monitoring applications across the globe.

Industries served include: particulate matter, indoor air quality, outdoor atmospheric quality, dust monitoring, micro air stations, clean spaces, consulting, HVAC systems, industrial/occupational hygiene, and mining environment, among others.


Industrial Production


Occupational Health

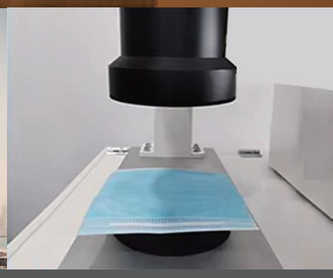

Environmental Governance


Cleanroom


Indoor Air Monitoring


Outdoor Air Monitoring


Construction Industry


Filter Testing

Automotive PM Sensor

PMV 10/ 100

Description

Vehicle air quality sensor can measurePM2.5.

Ability to conduct real-time detection of indoor air quality.

Features

- **Precise Measurement**
  Good linearity, small zero drift, very good selectivity, high sensitivity.
- **Durable and Long-lasting**
  Continuous operation >30,000 hours, low power consumption, convenient for users to monitor for a long time.
- **Easy to Integrate**
  Small size, easy to install.
- **Certificate of Authentication**
  IOS14001 and IATF16949 Certified

Technical Parameter Table

Model	PMV 10	PMV 100
Measure	0.3μm~2.5μm	
Algorithm	Particle size intelligent recognition algorithm, mass concentration inversion model, temperature compensation algorithm.	
Measuring Range	0~999μg/m³	
Certainty of Measurement	±10 (0-100μg/m³); ±10% (>100μg/m³)	
Response Time	<1s	
Time to First Rating	<10s	
Working Temperature	-40˚C~70˚C	
Storage Temperature	-40˚C~85˚C	
Working Voltage	9~16VDC (with voltage protection)	
Power Dissipation	≤0.8W	≤1.2W
Low Power Consumption	Static <100 μA	
Noise	<30dB (A)	
Communication Mode	CAN/LIN (default CAN)	
Life Length	>30000h	
Product Size	130.6*97.3*32.3mm (excluding pipes)	
Matching Harness Connector	Tyco 1473672	
Weight	117g ±3g	135g ±3g

Application Scenario

Automotive