



**PMD 351
Aerosol (Mass) Monitor
User Manual**

Notices about this User Manual

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If you require support, please advise this User Manual to resolve your problem. If you are still experiencing difficulty or have further questions, you may contact a customer service representative during business hours Monday to Friday, 8:30 a.m. to 5:00 p.m. (Pacific Standard Time).

USA:

Tel: (+1) 408-898-2866

Email: sales@temptopus.com

China:

Tel: (+86) 400-996-0916

Email: sales@temptopus.com.cn

United Kingdom:

Tel: +44 (0) 208-858-1888

Email: sales@elitech.uk.com

Brazil:

Tel: +55 (51)-3939-8634

Email: brasil@e-elitech.com

CAUTION!

Please read this manual carefully! Use of controls or adjustments or operation other than those specified in this manual, may cause danger or damage to the monitor.

WARNING!

-  The monitor features an internal laser transmitter. Do not open the monitor housing.
-  The monitor shall be maintained by the professional from the manufacturer.
-  Unauthorized maintenance may cause hazardous radiation exposure of the operator to laser radiation.
-  Elitech Technology, Inc. accepts no responsibility for any malfunction that are caused by improper handling of this product, and such malfunction will deem as falling outside the conditions of Warranty and Services outlined in this User Manual.

IMPORTANT!

-  PMD351 has been charged and can be used after unpacking.
-  Do not use this monitor to detect heavy smoke, high-concentration oil mist, or high-pressure gas to avoid laser tip damage or air pump block.
-  The monitor has the function of power-off memory. After power-on, it automatically enters the running state before power-off.

After opening the monitor case, make sure that the parts in the case are complete according to the following table. If anything is missing, please contact our company.

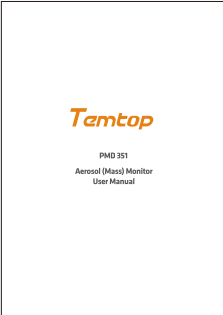
Standard Accessories			
			
PMD 351 & PU Protective Case	Battery Charger	RS-485 Serial Converter Cable	AC Power Plug
			
Filter Tube	User Manual	Carrying Case	USB Flash Drive
Optional Accessories			
			
Flow Meter	Filter Element		

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1. Introduction

PMD 351 is a small, light, and battery-powered aerosol (mass) monitor with five channels for simultaneous detection of PM1.0, PM2.5, PM4.0, PM10, and TSP (Total Suspended Particles) mass concentrations.

With a large display screen and seven buttons for operation, the monitor is simple and efficient, suitable for fast detection in multiple scenarios. The internal high-performance lithium battery allows the monitor to run continuously for 8 hours. PMD 351 also has a built-in 32GB large-capacity storage and supports two communication modes: USB and RS-485. The detected data can be viewed directly on the screen or exported through the USB port for analysis.

2. Product Overview



Fig. 1

- | | | | |
|---------------|-------------------|----------------------|----------------------|
| ① Intake Duct | ② Display Screen | ③ Buttons | ④ PU Protective Case |
| ⑤ USB Port | ⑥ 8.4V Power Port | ⑦ RS-485 Serial Port | |

Button Functions

	Hold for 2 seconds to turn on/off the monitor.
	While the device is waiting, click to enter the menu settings interface; In the MENU interface, press to switch options.
	Press to confirm the option.
	Press to back to the previous status.
	Press to start/stop sampling.
	Scroll up the options in the Menu interface; Increase parameter value.
	Scroll down the options in the Menu interface; Decrease parameter value.

3. Operations

3.1 Power ON

Press and hold  for 2 seconds to power on the monitor, and it will display an initialization screen (Fig. 2).

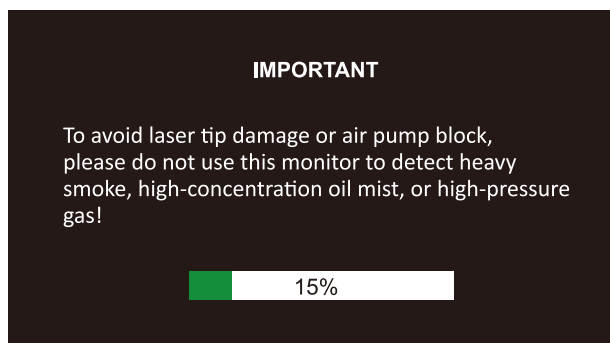


Fig. 2

After the initialization, the monitor enters the main interface. It will not start the measurement by default to save the power (Fig. 3).

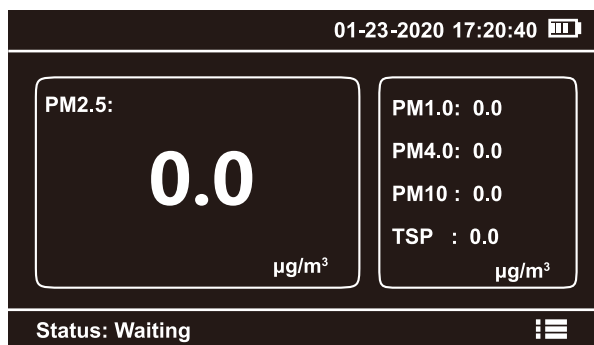


Fig. 3

Press  to start detection, the interface displays real-time concentration of all parameters, and press  or  to switch the measurement items displayed in the main view box (Fig. 4).

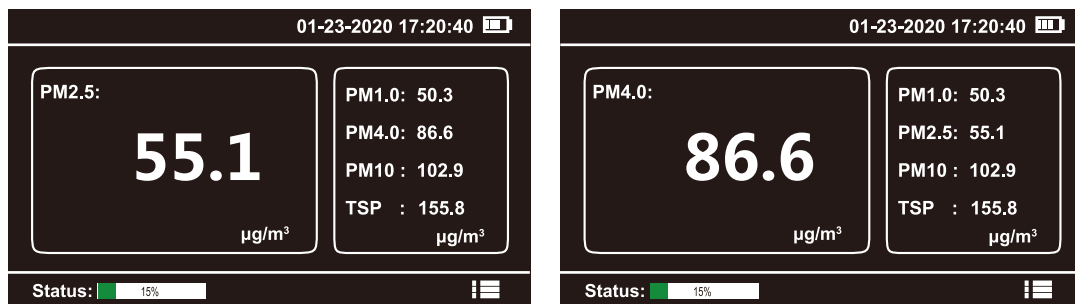


Fig. 4

3.2 Settings Menu

Press  to enter the MENU interface, then press  or  to switch between the options. Press  to enter your preferred option to view or change settings (Fig. 5).

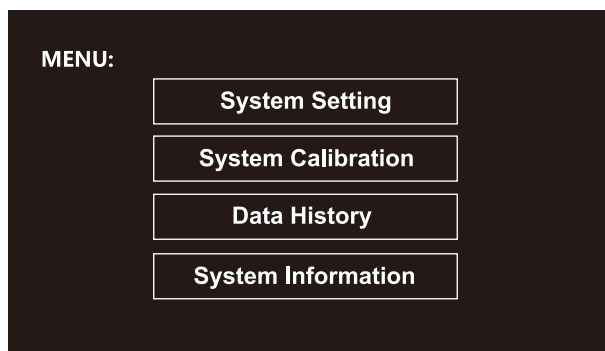


Fig. 5

MENU options are as follows:

Menu	Display as...	Description
System Setting	Setting	Set system time, COM, backlight and language
System Calibration	Calibration	Calibrate zero, K-Factor and flow
Data History	History	Query, download and delete the data
System Information	Information	Display system information

3.2.1 System Setting

In the system setting interface MENU->Setting, you can set time, COM, and language. Press  or  to switch the options (Fig. 6) and press  to enter.

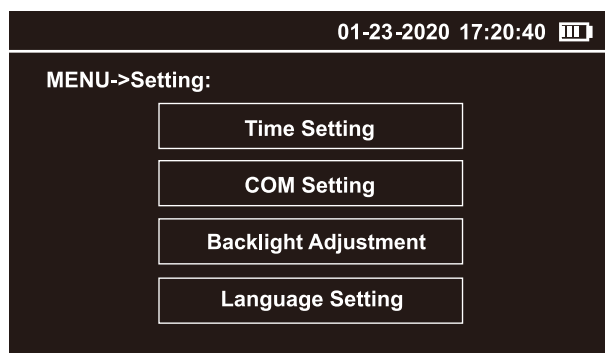


Fig. 6

• Time Setting

Press  to switch the option, press  or  to increase or decrease the value, finally switch to the option **Save** and press  to save the setting (Fig. 7).

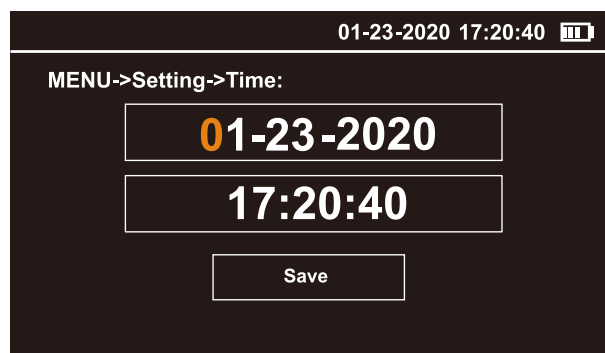


Fig. 7

• COM Setting

Press  or  to select the baud rates among three options: 9600, 19200, and 115200. Then press  to switch to **Save** and press  to save the setting (Fig. 8).

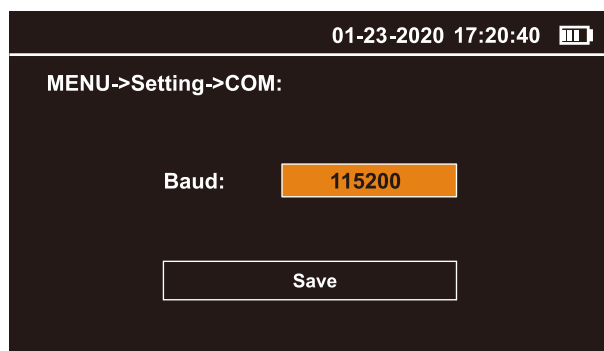


Fig. 8

• Backlight Adjustment

The instrument supports setting the backlight in the range of 1-3. Press  to switch the option, press  or  to increase or decrease the value, finally switch to the option **Save** and press  to save the setting (Fig. 9).

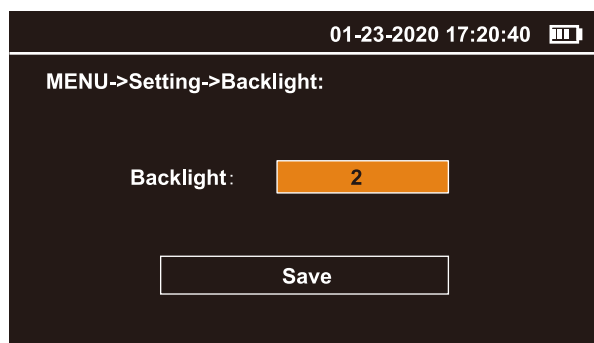


Fig. 9

• Language Setting

The monitor supports two languages, English and Chinese. Please press  or  to select the desired language, then press  to switch to **Save** and press  to save the setting (Fig. 10).

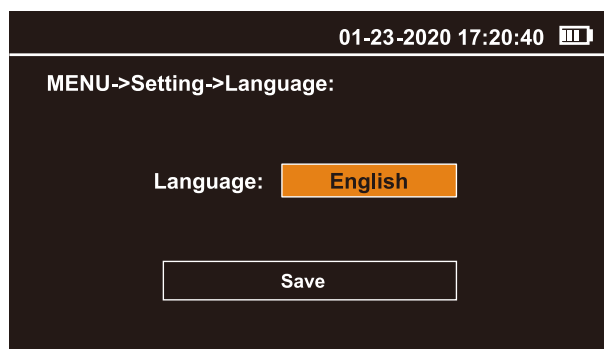


Fig. 10

3.2.2 System Calibration

In the system setting interface MENU->Calibration, you can operate Zero Calibration, K-Factor Calibration, and Flow Calibration. Press  or  to switch the option and press  to enter (Fig. 11).

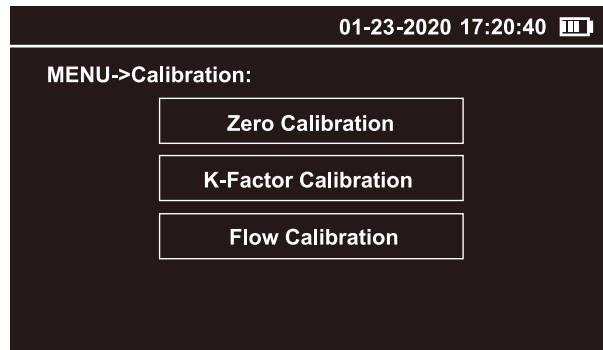


Fig. 11

• Zero Calibration

Before start, please install the filter and the air inlet according to the prompt reminder on the display. Please see **5.2 Zero Calibration** for more installation details.

Press  to start the calibration. It takes about 90 seconds countdown. After the countdown finishes, the display prompts reminder to confirm the calibration finishes successfully and will return to the MENU-Calibration interface automatically (Fig. 12).

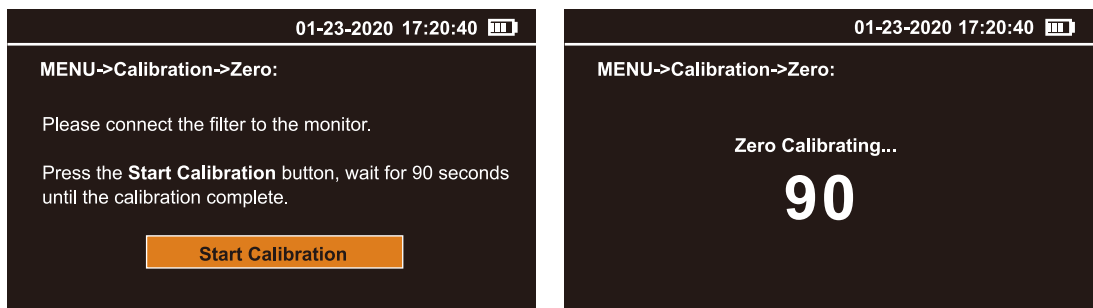


Fig. 12

• K-Factor Calibration

Under K-Factor interface, press  to switch the option, press  or  to increase or decrease the value, which ranges from 0.1 to 6.0. After the setting is completed, press  to switch to **Save** and press  to save (Fig. 13).

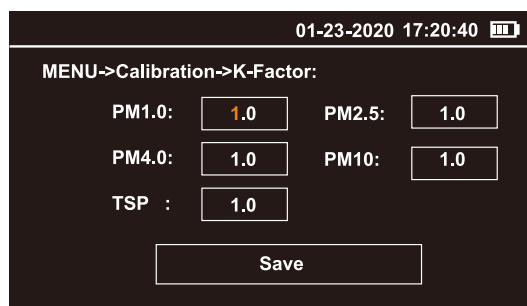


Fig. 13

• Flow Calibration

Before start, please install the flow meter to the air inlet as prompt on the display. Please see **5.3 Flow Calibration** for full installation operation.

Under Flow Calibration interface, press **OK** to start calibrating. Then press **▲** or **▼** to increase or decrease the value until the flow meter reading reaches 2.83 L/min. After the setting finishes, press **OK** to save the setting and exit (Fig. 14).

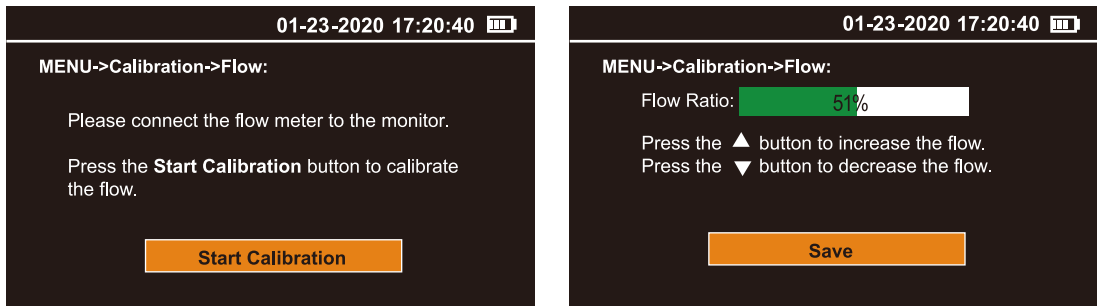


Fig. 14

3.2.3 Data History

The History menu interface allows data query, download and deletion. Press **▲** or **▼** to switch the options and press **OK** to enter the corresponding interface (Fig. 15).

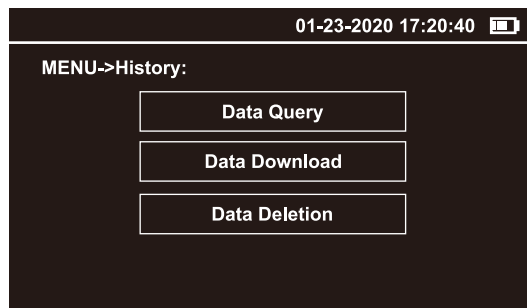


Fig. 15

• Data Query

Under the Query interface, the data can be queried by month. By default, the system will recommend the current month automatically. If you need data for other months, please press **≡** switching to the year and month options, then press **▲** or **▼** to increase or decrease the value. After complete, press **≡** to switch to **Query** and press **OK** to enter. The displayed data is sorted in descending time where the latest data is at the front. Press **▲** or **▼** to turn the page (Fig. 16).

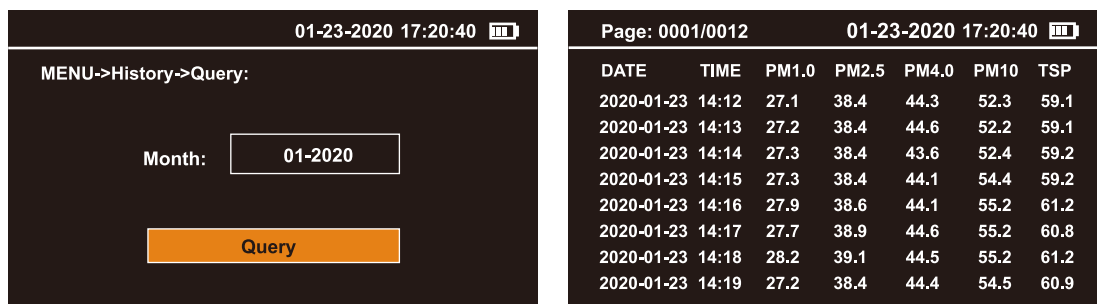


Fig. 16

• Data Download

In the Download interface, insert a USB device such as a USB flash drive or card reader into the USB port of the monitor and press **OK**, the monitor will check the connection status of the USB device (Fig. 17).

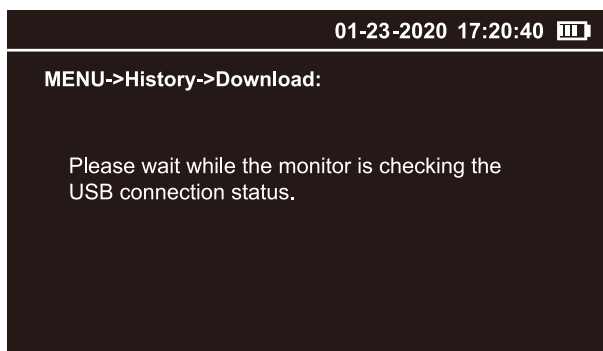


Fig. 17

If the USB device fails to connect or there is no USB device connected, the display will prompt a reminder. Please reconnect it or try again later (Fig. 18).

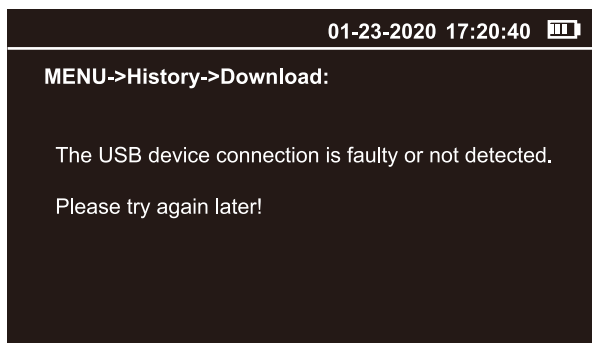


Fig. 18

If the USB device is successfully connected, press **OK** to download the data (Fig. 19).

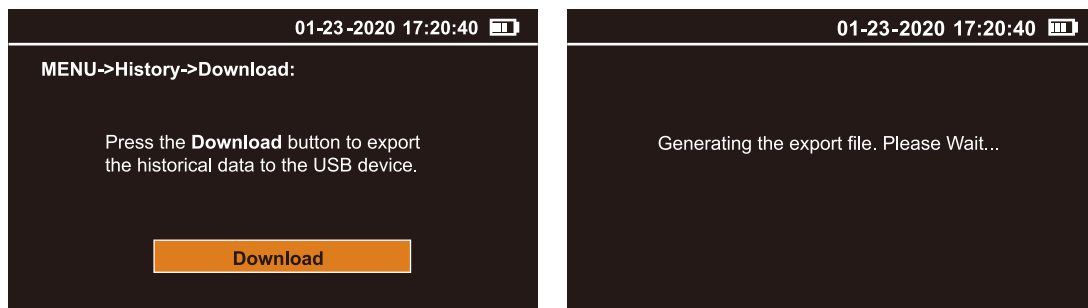


Fig. 19

After the data downloaded, unplug the USB device and insert it into the computer to find a folder named **TEMTOP**. You can view and analyze the data now.

- **Data Deletion**

In the Data Deletion interface, data can be deleted by month or all. Press  or  to switch options and press  to enter (Fig. 20).

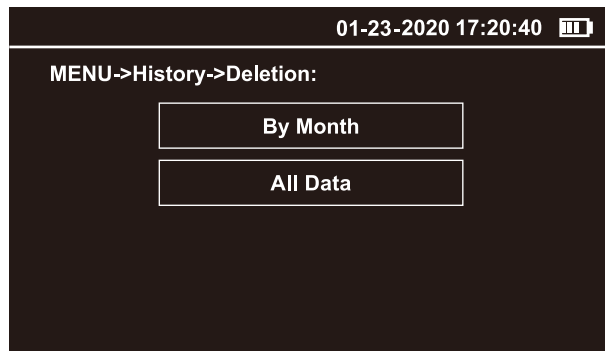


Fig. 20

For the Monthly Data interface, the current month will auto display by default. If you need to delete other months, please press  switching to the year and month options, then press  or  to increase or decrease the value. After complete, press  to switch to **Delete** and press  to complete the delete (Fig. 21).

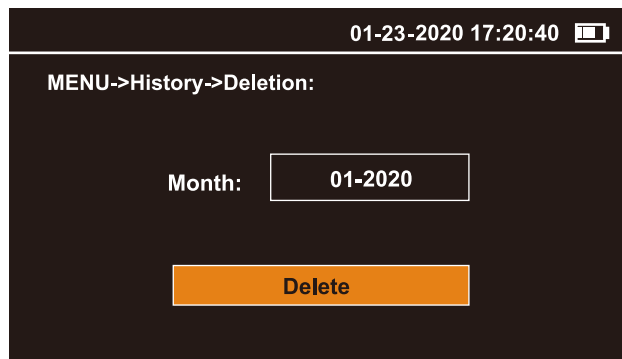


Fig. 21

For the Monthly Data and All Data interface, the display will prompt a confirmation reminder, press  to confirm it (Fig. 22).

Wait until the delete completed, if data delete successfully, then the display will prompt a reminder and will return to the MENU-History interface automatically.

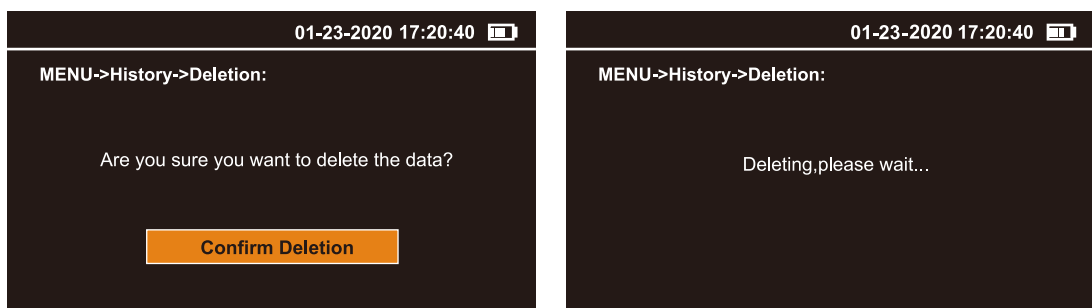


Fig. 22

3.2.4 System Information

The Information interface shows the following information (Fig. 23).

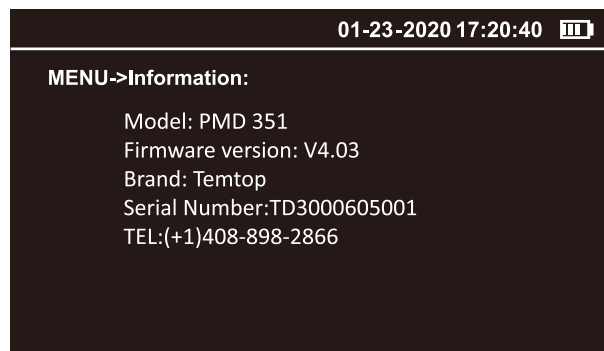


Fig. 23

3.3 Power OFF

Press and hold  for 2 seconds to turn off the monitor (Fig. 24).

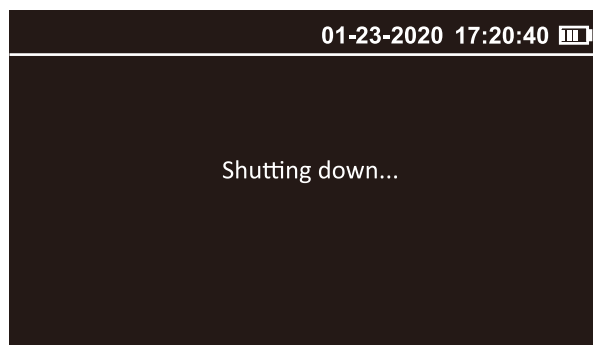


Fig. 24

4. Protocols

PMD 351 supports two communication modes: RS-485 and USB.
RS-485 serial communication is used for real-time interaction.
USB communication is used to export data history.

4.1 RS-485 Serial Communication

The PMD 351 is based on the Modbus RTU protocol.

Description

1) Master-Slave:

Only the master can initiate communication, as the PMD 351 is a slave and will not initiate communication.

2) Packet identification:

Any message(packet) starts with a silent interval of 3.5 characters. Another silent interval of 3.5 characters marks message end. Silence interval between characters in the message needs to be kept less than 1.5 characters.

Both intervals are from the end of Stop-bit of previous byte to the beginning of the Start-bit of the next byte.

3) Packet Length:

PMD351 supports a maximum data packet (serial line PDU, including address byte and 2 bytes CRC) of 21 bytes.

4) Modbus Data Model:

PMD 351 has 4 main data tables (addressable registers) that can be overwritten:

- Discrete input (read-only bit)
- Coil (read / write bit)
- Input register (read-only 16-bit word, interpretation depends on application)
- Holding register (read / write 16-bit word)

Note: The sensor does not support bit-wise access to registers.

4.1.1 Register List

Restrictions:

1. Input registers and holding registers are not allowed to overlap;
2. Bit-addressable items (i.e., coils and discrete inputs) are not supported;
3. The total number of registers is limited: 8 input registers and 14 holding registers.

The register map (all registers are 16-bit words) is summarized in the table below.

Input Register List		
No.	Meaning	Description
0x00	N/A	Reserved
0x01	N/A	Reserved
0x02	N/A	Reserved
0x03	PM1.0 Hi 16	Concentration value
0x04	PM1.0 Lo 16	Concentration value
0x05	PM2.5 Hi 16	Concentration value
0x06	PM2.5 Lo 16	Concentration value
0x07	PM4 Hi 16	Concentration value
0x08	PM4 Lo 16	Concentration value
0x09	PM10 Hi 16	Concentration value
0x10	PM10 Lo 16	Concentration value
0x11	TSP Hi 16	Concentration value
0x12	TSP Lo 16	Concentration value

Holding Register List			
No.	Meaning	Description	
0x00	N/A	Reserved	
0x01	Instruction Register	Instruction	Parameter
		0x00	0x00: Stop detection 0x01: Start detection
0x02	N/A	Reserved	
0x03	PM1.0 coefficient	Coefficient value	
0x04	PM2.5 coefficient	Coefficient value	
0x05	PM4.0 coefficient	Coefficient value	
0x06	PM10 coefficient	Coefficient value	
0x07	TSP coefficient	Coefficient value	
0x08	Year	Year	
0x09	Month	Month	
0x0A	Day	Day	
0x0B	Hour	Hour	
0x0C	Minute	Minute	
0x0D	Second	Second	

4.1.2 Function Code Description

PMD351 supports the following function codes:

0x03: Read holding register

0x04: Read input register

0x06: Write a single holding register

0x10: Write multiple holding register

The remaining Modbus function codes are not supported for the time being.

4.1.3 Serial Setting

Baud rate: 9600, 19200, 115200 (see **3.2.1 System Setting-COM Setting**)

Data bits: 8

Stop bit: 1

Check bit: N/A

4.1.4 Application Example

• Read Detected Data

Reading measurement data

The sensor address is 0xFE.

Use 0x04 (read input register) in Modbus to obtain detected data.

The detected data put in a register with a starting address of 0x0003, the number of registers is 10, and the CRC check is 0x9402.

The PMD351 responds a value that is 10 times the actual concentration. In the example:

PM1.0 is 0x000000CF (actual value is 20.7 $\mu\text{g}/\text{m}^3$),

PM2.5 is 0x00000138 (actual value is 31.2 $\mu\text{g}/\text{m}^3$),

PM4.0 is 0x0000018F (actual value is 39.9 $\mu\text{g}/\text{m}^3$)

PM10 is 0x000001F5 (actual value is 50.1 $\mu\text{g}/\text{m}^3$)

TSP is 0x00000241 (actual value is 57.7 $\mu\text{g}/\text{m}^3$).

The master sends:

Slave Address	Function Code	Starting Address Hi	Starting Address Lo	Quantity Hi	Quantity Lo	CRC16 Lo	CRC16 Hi
0xFE	0x04	0x00	0x03	0x00	0x0A	0x94	0x02

The slave responds:

Slave Address	Function Code	Quantity	PM1.0 Hi 16 Hi	PM1.0 Hi 16 Lo	PM1.0 Lo 16 Hi	PM1.0 Lo 16 Lo	PM2.5 Hi 16 Hi	PM2.5 Hi 16 Lo
0xFE	0x04	0x14	0x00	0x00	0x00	0xCF	0x00	0x00
PM2.5 Lo 16 Hi	PM2.5 Lo 16 Lo	PM4.0 Hi 16 Hi	PM4.0 Hi 16 Lo	PM4.0 Lo 16 Hi	PM4.0 Lo 16 Lo	PM10 Hi 16 Hi	PM10 Hi 16 Lo	PM10 Lo 16 Hi
0x01	0x38	0x00	0x00	0x01	0x8F	0x00	0x00	0x01
PM10 Lo 16 Lo	TSP Hi 16 Hi	TSP Hi 16 Lo	TSP Lo 16 Hi	TSP Lo 16 Lo	CRC16 Lo	CRC16 Hi		
0xF5	0x00	0x00	0x02	0x41	0x99	0xA0		

- **Start Detection**

The sensor address is 0xFE.

Use 0x06 (write a single holding register) in Modbus to start the detection.

Write 0x0001 to register 0x01 to start detection. The starting address is 0x0001, and the registered value is 0x0001. CRC calculated as 0xC50D, first sent in low byte.

The master sends:

Slave Address	Function Code	Starting Address Hi	Starting Address Lo	Value Hi	Value Lo	CRC16 Lo	CRC16 Hi
0xFE	0x06	0x00	0x01	0x00	0x01	0x0D	0xC5

The slave responds:

Slave Address	Function Code	Starting Address Hi	Starting Address Lo	Value Hi	Value Lo	CRC16 Lo	CRC16 Hi
0xFE	0x06	0x00	0x01	0x00	0x01	0x0D	0xC5

- **Stop Detection**

The sensor address is 0xFE.

Use 0x06 (write a single holding register) in Modbus to stop the detection.

Write 0x0000 to register 0x01 to stop the detection. The starting address is 0x0001, and the registered value is 0x0000. CRC calculated as 0x05CC, first sent in low byte.

The master sends:

Slave Address	Function Code	Starting Address Hi	Starting Address Lo	Value Hi	Value Lo	CRC16 Lo	CRC16 Hi
0xFE	0x06	0x00	0x01	0x00	0x00	0xCC	0x05

The slave responds:

Slave Address	Function Code	Starting Address Hi	Starting Address Lo	Value Hi	Value Lo	CRC16 Lo	CRC16 Hi
0xFE	0x06	0x00	0x01	0x00	0x00	0xCC	0x05

- **Set K-Factor**

The sensor address is 0xFE.

Use 0x06 (write a single holding register) in Modbus to set the K-Factor (10 times the actual value, the range is 1-99, corresponding to the actual value 0.1-9.9).

Set the K-Factor of PM1.0 to 1.1 by writing 0x000B to register 0x03 (similar for the remaining PM2.5, PM4.0, PM10, and TSP).

The CRC check is 0x022C.

The master sends:

Slave Address	Function Code	Starting Address Hi	Starting Address Lo	Value Hi	Value Lo	CRC16 Lo	CRC16 Hi
0xFE	0x06	0x00	0x03	0x00	0x0B	0x2C	0x02

The slave responds:

Slave Address	Function Code	Starting Address Hi	Starting Address Lo	Value Hi	Value Lo	CRC16 Lo	CRC16 Hi
0xFE	0x06	0x00	0x03	0x00	0x0B	0x2C	0x02

- **Read K-Factor**

The sensor address is 0xFE.

Use 0x03 (read holding register) in Modbus to read K-Factor (10 times the actual value, the range is 1-99, corresponding to the actual value 0.1-9.9).

The K-Factor of PM2.5 put in the holding register at address 0x04, and the number of registers is 0x01.

The CRC check is 0xC4D1.

The slave responds with 0x0C as the value of K-Factor, and the actual value is 1.2.

The master sends:

Slave Address	Function Code	Starting Address Hi	Starting Address Lo	Quantity Hi	Quantity Lo	CRC16 Lo	CRC16 Hi
0xFE	0x03	0x00	0x04	0x00	0x01	0xD1	0xC4

The slave responds:

Slave Address	Function Code	Quantity	K Hi	K Lo	CRC16 Lo	CRC16 Hi
0xFE	0x03	0x02	0x00	0x0C	0xAC	0x55

- **Set Time**

The sensor address is 0xFE.

Use 0x10 (write multiple holding registers) in Modbus to set the time.

In the register with start address 0x08, the number of registers is 0x06, and the number of bytes is 0x0C, which respectively correspond to the year, month, day, hour, minute, and second.

Year is 0x07E4 (actual value is 2020),

Month is 0x0002 (actual value is February),

Day is 0x0002 (actual value is 2th),

Hour is 0x0011 (actual value is 17),

Minute is 0x0023 (actual value is 35 minutes),

Second is 0x0013 (actual value is 19 seconds),

The CRC check is 0x8DE8.

The master sends:

Slave Address	Function Code	Starting Address Hi	Starting Address Lo	Value Hi	Value Lo	Byte Count	Year Hi
0xFE	0x10	0x00	0x08	0x00	0x06	0x0C	0x07

Year Lo	Month Hi	Month Lo	Day Hi	Day Lo	Hour Hi	Hour Lo	Minute Hi
0xE4	0x00	0x02	0x00	0x02	0x00	0x11	0x00

Minute Lo	Second Hi	Second Lo	CRC16 Lo	CRC16 Hi
0x23	0x00	0x13	0xE8	0x8D

The slave responds:

Slave Address	Function Code	Starting Address Hi	Starting Address Lo	Value Hi	Value Lo	CRC16 Lo	CRC16 Hi
0xFE	0x10	0x00	0x08	0x00	0x06	0xD5	0xC6

4.2 USB Communication

Please see **3.2.3 Data History - Data Download** for detail USB operations.

5. Maintenance

5.1 Maintenance Schedule

To make better use of PMD 351, regular maintenance is required in addition to correct operation. Temtop recommends the following maintenance plan:

Service Items	Frequency	By
Zero calibration	Every week/User-defined	User/Manufacturer
Flow calibration	Every month	User/ Manufacturer
Air pump, pipeline, optical detector inspection and cleaning	Every year	Manufacturer only
Battery pack inspection	Every year	Manufacturer only

5.2 Zero Calibration

After the instrument has been used for a long time or the operating environment has been changed, the instrument should be zero-calibrated. Regular calibration is required, and the matching filter should be used for calibration by the following steps (Fig. 25):

1. Unscrew intake duct by turning it anti clockwise.

2. Insert the filter on the air inlet of the monitor. Please note that the direction of the arrow indicates the air intake direction.



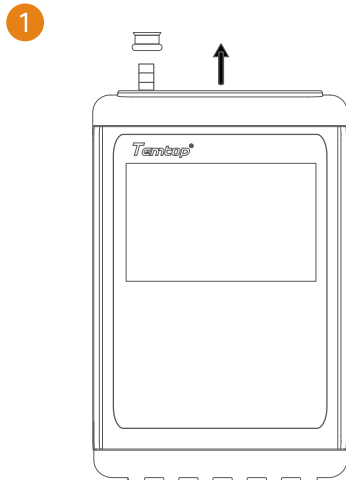
Fig. 25

After the filter installed, open the Zero Calibration interface and refer to **3.2.2 System Calibration-Zero Calibration** for operation. After the calibration completed, remove the filter and screw the filter cover back.

5.3 Flow Calibration

PMD 351 sets the default flow rate to 2.83 L/min. The flow rate may change subtly due to continuous use and ambient temperature changes, thus reducing detection accuracy. Temtop offers flow calibration accessories for testing and adjusting flow.

1. Unscrew intake duct by turning it anti clockwise.



2. Insert the flow meter on the air inlet of the monitor. Please note that it should be connected downstream of the flow meter.

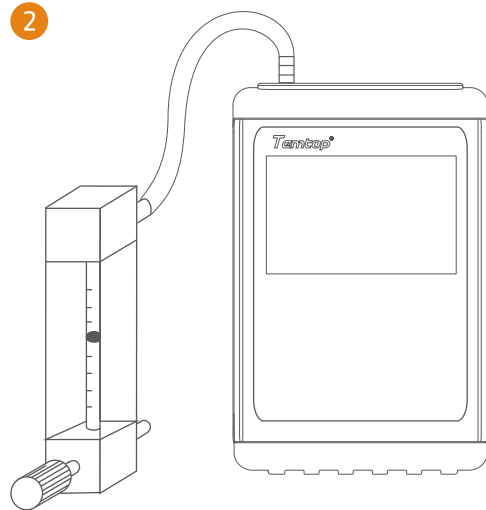


Fig. 26

After the flow meter installed, turn the adjustment knob to the maximum, and then open the Flow Calibration interface and refer to **3.2.2 System Calibration-Flow Calibration** for operation. After the calibration completed, remove the flow meter, and screw the intake duct cover back.

5.4 Filter Element Replacement

After the instrument runs for a long time or runs under high pollution conditions for a long time, the filter element will become dirty, affecting the filtering performance, and then affecting the measurement accuracy. The filter element should be replaced regularly. Temtop offers filter element accessories that can be replaced.

The replacement operation is as follows:

1. Shut down the monitor.
2. Use a coin or U-shaped screwdriver to remove the filter cover on the back of the instrument.
3. Remove the old filter element from the filter tank. If necessary, flush the filter tank with compressed air.
4. Place the new filter element in the filter tank and close the filter cover.

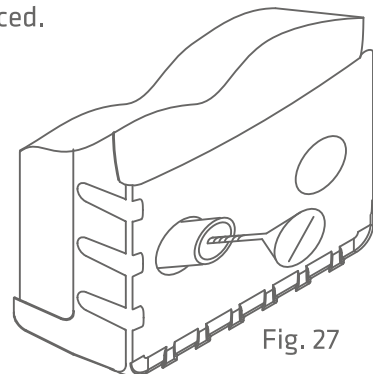


Fig. 27

5.5 Annual Maintenance

It is recommended to return PMD351 to the manufacturer for annual calibration by specialized maintenance personnel in addition to weekly or monthly calibration by users. Annual return-to-factory maintenance also includes the following preventative items to reduce accidental failures:

- Check and clean the optical detector;
- Check air pumps and pipes;
- Cycle and test the battery.

6. Troubleshooting

Failure	Possible Causes	Solution
Noise	The flow is excessive	Flow calibration
	The pump is faulty	Send to the service center
Cannot be turned on, no display	Battery discharged	Charge the battery for 3-5 h
	The battery is faulty	Send to the service center
Display is on, but pump does not run	Low battery level	Charge the battery for 3-5 h
	The pump is faulty	Send to the service center
Detected value is not reliable	Flow deviation	Flow calibration
	Inlet screen clogged	Check the inlet screen
	Contamination inside the monitor	Replace the filter element
		Send to the service center
Unable to charge the battery	The battery is faulty	Send to the service center
	Charger failure	Contact the service center

7. Specifications

Item	Parameter	Remark
Particle Diameter	PM1.0, PM2.5, PM4.0, PM10, TSP	Both detection and display
Measurement Range	0~50mg/m ³	
Accuracy	±10%	Calibrate aerosol
Resolution	0.1 µg / m ³	
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/R5-485	
Memory	8,000,000 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	170 x 110 x 48 mm	Not include intake duct and protective case
Weight	850g	

8. Warranty & Services

Warranty: Any defective monitor may be replaced or repaired within the warranty period. However, this warranty does not cover monitors that have been altered or modified due to misuse, negligence, accidents, or acts of nature, nor does it cover monitors modified without Temtop's authorization.

Calibration: Temtop provides a 2-year free calibration service, with shipping costs borne by the customer. The monitor to be calibrated must not be contaminated by pollutants such as chemical substances, biological substances, or radioactive substances. If the monitor is contaminated by the aforementioned pollutants, the customer shall be responsible for paying the maintenance fee.

This product comes with a 5-year warranty and a 2-year calibration service, both starting from the date of your purchase.

Item	Warranty Period	Calibration Period*
Monitor	5 years	2 years
Accessories	N/A	N/A

** Only one free calibration service is provided annually for the same product.*

Note: A sincere effort was made to ensure that all information in this manual was current at the time of publication. However, final products may vary from the manual, and the specifications, features, and displays are subject to the finished products. Please check with your Temtop representative for the latest information.

**Elitech Technology, Inc**

2528 Qume Dr, Ste 2
San Jose, CA 95131 USA
Tel: (+1) 408-898-2866
Facebook: www.facebook.com/temtopus
Instagram: www.instagram.com/temtopaqm/
youtube: www.youtube.com/@Temtopus
linkedin: www.linkedin.com/company/temtop-us/
X: x.com/temtopus48285
Sales: sales@temtopus.com
Website: www.temtopus.com

Elitech Brazil Ltda

R.Dona Rosalina,90-Lgara, Canoas-RS
92410-695,Brazil
Tel: (+55)51-3939-8634
Sales: brasil@e-elitech.com
Website: www.elitechbrasil.com.br

Elitech (UK) Limited

Unit 13 Greenwich Business Park,
53 Norman Road,London, SE10 9QF
Tel: (+44)208-858-1888
Youtube: @elitech_uk
Instagram: @elitechuk_
Facebook: @hvaccontrol
Sales: sales@elitecheu.com
Website: www.temtop.co.uk

Temtop (Shanghai) Technology Co., Ltd

Room 555 Pudong Avenue,
Pudong New Area, Shanghai,China
Tel: (+86)400-996-0916
Email:sales@temtopus.com.cn
Website:www.temtopus.com