

Protmex PTH-26PM

Protmex PTH-26PM Air Quality Monitor User Manual

Model: PTH-26PM

1. INTRODUCTION

The Protmex PTH-26PM Air Quality Monitor is a portable device designed to provide real-time measurements of air quality parameters. It features sensors for PM2.5 and PM10 particulate matter, as well as integrated temperature and humidity sensors. This manual provides detailed instructions for the proper use and maintenance of your device.

2. PRODUCT OVERVIEW

2.1 Key Features



Figure 1: Key Features Overview. This image highlights the main functionalities of the Protmex PTH-26PM, including PM2.5/PM10 monitoring, temperature monitoring, humidity monitoring, high sensitivity, acoustic-optical alarm, and battery reminder.

- **3-in-1 Air Quality Detection:** Monitors PM2.5, PM10, temperature, and humidity.
- **High-Precision Sensors:** Equipped with accurate sensors for particulate matter detection, ranging from 0 to 1000 $\mu\text{g}/\text{m}^3$ with 1 $\mu\text{g}/\text{m}^3$ resolution.
- **Buzzer Alert System:** Provides immediate notifications when air pollution levels reach concerning thresholds.
- **Large LCD Display:** Offers clear and crisp visibility of air quality data.
- **Portable Design:** Compact and lightweight for easy transport and use in various environments.
- **Long Battery Life:** Features a 1000mAh Lithium-Ion battery for extended operation.

2.2 Device Components



Figure 2: Device Components. This image displays the Protmex PTH-26PM Air Quality Monitor with its key features labeled. These include PM2.5 detection, PM10 detection, temperature sensor, humidity sensor, high-quality chip, and sound alarm. The device has a central display and three control buttons below it.

The device features a clear LCD display for real-time readings and three control buttons for operation. Air

inlets are located on both sides for accurate detection.



Figure 3: Portable Design and Air Inlet. This image shows the compact size of the Protmex PTH-26PM Air Quality Monitor, held in a hand, highlighting its portability. It also points out the "admitting port" or air inlet on the side, crucial for accurate air quality detection.

3. SETUP

3.1 Unpacking

Carefully remove the Protmex PTH-26PM Air Quality Monitor and all accessories from the packaging. Verify that all items listed in the "What's in the Box" section are present.

3.2 Charging the Device

Before initial use, fully charge the device. Connect the provided USB cable to the charging port on the monitor and plug the other end into a standard USB power adapter (not included) or a computer's USB port. The battery indicator on the display will show charging status. A full charge typically takes a few hours.



Figure 4: Battery Information. This image illustrates the device's battery specifications, including a 10-day super long battery life, 1000mAh battery capacity, and 3.7V charging voltage. The display shows a battery icon indicating charge level.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

To power on the device, press and hold the central button until the display illuminates. To power off, press and hold the central button again until the display turns off.

4.2 Real-Time Monitoring

Upon powering on, the device will immediately begin monitoring air quality. The large LCD display will show real-time readings for:

- **PM2.5:** Particulate matter 2.5 micrometers or less in diameter ($\mu\text{g}/\text{m}^3$).
- **PM10:** Particulate matter 10 micrometers or less in diameter ($\mu\text{g}/\text{m}^3$).
- **Temperature:** Ambient temperature (in Celsius or Fahrenheit, depending on settings).
- **Humidity:** Relative humidity percentage.



Figure 5: Real-Time Display. This image shows the Protmex PTH-26PM Air Quality Monitor's main display, indicating real-time values for PM2.5 (028 $\mu\text{g}/\text{m}^3$), PM10 (022 $\mu\text{g}/\text{m}^3$), temperature (26°C), and humidity (60%). A battery indicator is also visible at the top.

4.3 Buzzer Alert System

The device is equipped with a buzzer alert system that activates when detected air pollution levels exceed predefined thresholds. This provides an immediate audible warning. Refer to the device settings (if available) to adjust or disable the buzzer.

Sound Alarm



Figure 6: Sound Alarm Feature. This image depicts the Protmex PTH-26PM Air Quality Monitor with graphical sound waves emanating from it, symbolizing the active sound alarm feature. The display shows PM2.5 and PM10 readings, temperature, and humidity.

4.4 Navigation and Settings (if applicable)

Use the up and down arrow buttons (if present) to navigate through different display modes or settings menus. The central button typically acts as a selection or confirmation button. Consult the on-screen prompts for specific navigation instructions.

5. MAINTENANCE

5.1 Cleaning

To maintain optimal performance, keep the device clean. Wipe the exterior with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure the air inlets on the sides are free from dust and debris. Do not attempt to clean the internal sensors directly.

5.2 Storage

When not in use for extended periods, store the device in a cool, dry place, away from direct sunlight and

extreme temperatures. Ensure the battery is partially charged before storage to prolong its lifespan.

6. TROUBLESHOOTING

- **Device does not power on:**

Ensure the device is fully charged. Connect it to a power source using the USB cable and allow it to charge for at least 30 minutes before attempting to power it on again. If the issue persists, the battery may be defective.

- **Inaccurate readings:**

Ensure the air inlets on the sides of the device are not obstructed by dust or debris. Operate the device in a stable environment, away from strong air currents or direct sources of pollution (e.g., smoke, sprays) that could skew readings temporarily. Allow the device a few minutes to stabilize after powering on.

- **Display issues (e.g., blank screen, distorted image):**

Try restarting the device. If the problem persists, it may indicate a hardware malfunction. Contact customer support for assistance.

- **Buzzer alarm sounds unexpectedly:**

Check the current air quality readings on the display. The alarm indicates that pollution levels have exceeded the set thresholds. If the readings appear normal and the alarm continues, there might be a sensor issue. Refer to the device settings to adjust or temporarily disable the alarm if needed.

7. SPECIFICATIONS

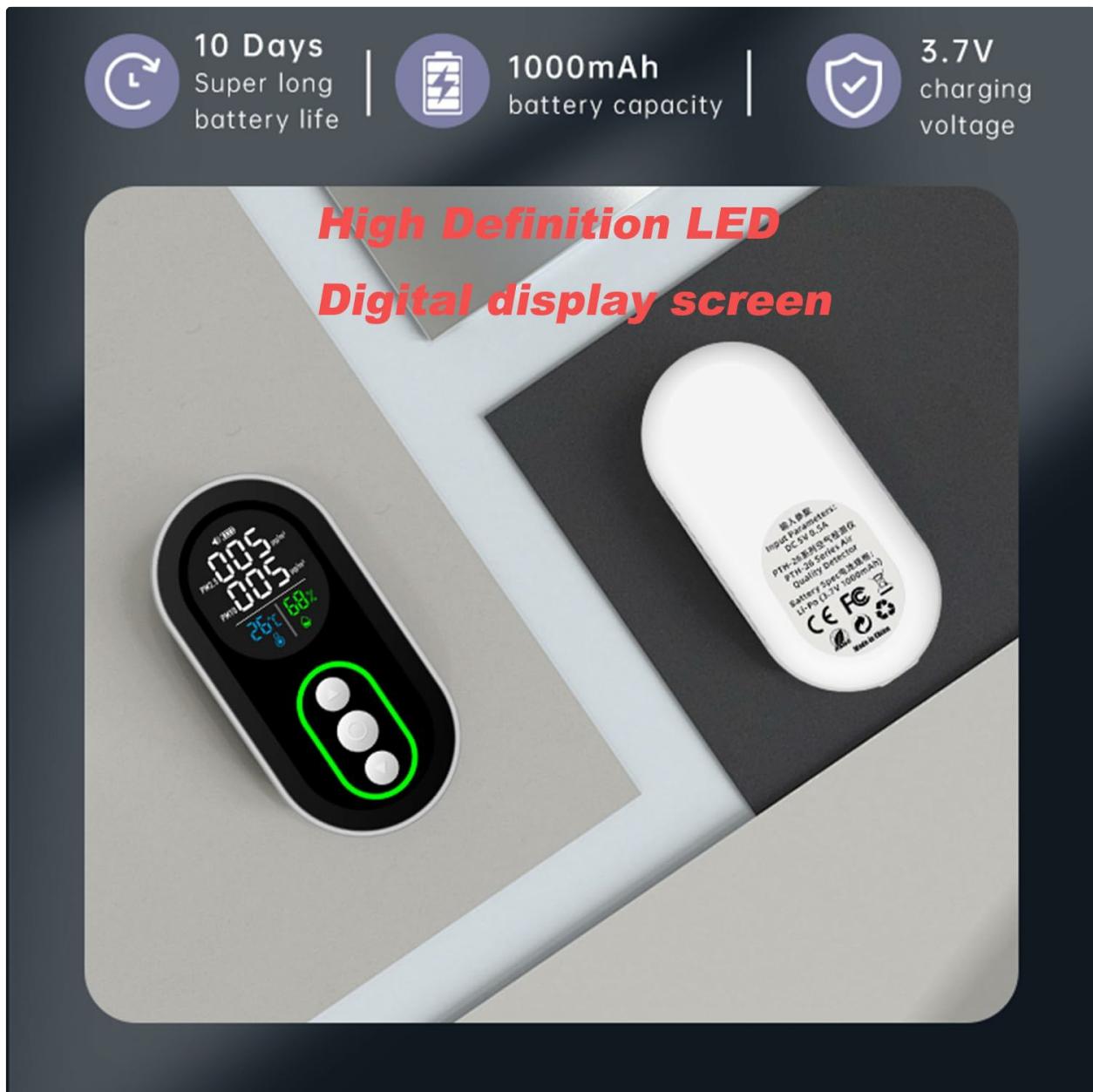


Figure 7: Product Parameters. This image displays the Protmex PTH-26PM Air Quality Monitor alongside a table detailing its product parameters, including product name, model, size, measuring range, display resolution, battery specification, working temperature, and custom alert feature.

Parameter	Value
Product Name	PM2.5/PM10 Detection
Product Model	PTH-26PM
Product Size	105 x 52 x 24 mm
Measuring Range	PM2.5/PM10: 0–1000 $\mu\text{g}/\text{m}^3$
Display Resolution	PM2.5/PM10: 1 $\mu\text{g}/\text{m}^3$
Battery Specification	Li-Po (1000mAh)
Working Temperature	-10°C to 50°C / 14°F to 122°F
Package Dimensions	4.29 x 2.09 x 1.54 inches

Parameter	Value
Weight	3.84 ounces

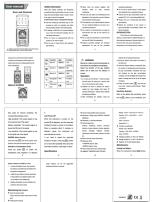
8. WHAT'S IN THE Box

- Protmex PTH-26PM Air Quality Monitor
- USB Cable
- User Manual (this document)

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase documentation or visit the official Protmex website. Keep your purchase receipt as proof of purchase.

Related Documents - PTH-26PM

	<p>Protmex HT609 Gas Leak Detector User Manual</p> <p>User manual for the Protmex HT609 Gas Leak Detector, covering safety information, operation, specifications, and maintenance.</p>
	<p>Protmex PT6508 Digital Temperature Humidity Meter User Manual</p> <p>Comprehensive user manual for the Protmex PT6508 Digital Temperature Humidity Meter, covering operation, display screen, maintenance, and technical specifications for measuring ambient temperature, dew point, and wet bulb.</p>
	<p>Protmex HT607 Temperature & Humidity Meter User Manual</p> <p>Comprehensive user manual for the Protmex HT607 Temperature & Humidity Meter, detailing its features, operation, specifications, and maintenance. Learn how to measure ambient temperature, humidity, dew point, and wet bulb temperature with this high-precision digital hygrometer.</p>
	<p>PT20C Weather Station Clock User Manual</p> <p>User manual for the Protmex PT20C Weather Station Clock, detailing its features, setup, operation, and functions including temperature, humidity, air pressure, weather forecast, and alarm settings. Covers RCC and WWVB versions.</p>



[PT20C Weather Station Clock User Manual](#)

User manual for the Protmex PT20C Weather Station Clock, covering features, operation, settings, specifications, and troubleshooting for both WWVB RCC and NO RCC versions.

PT6708 Calibration method
1. In the shutdown state, first press and hold the "0" and "30" keys at the same time, and then press the power button without letting go, until the LCD screen is lit up and release all keys to enter the debugging mode.



[Protmex PT6708 Digital Sound Level Meter Calibration Guide](#)

Step-by-step instructions for calibrating the Protmex PT6708 Digital Sound Level Meter, including entering debugging mode and performing A/C weighted measurements.