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Sanpyl Sanpyl84ru3n5gzx-11

Sanpyl Air Quality Monitor (Model Sanpyl84ru3n5gzx-11) User Manual

Comprehensive instructions for setup, operation, and maintenance.

1. PRODUCT OVERVIEW

The Sanpyl Air Quality Monitor is a versatile device designed to detect various indoor air pollutants. It utilizes advanced semiconductor, infrared, and electrochemical detection technologies to provide real-time measurements.

Key Features:

- **6-in-1 Detection:** Monitors Carbon Dioxide (CO₂), Carbon Monoxide (CO), Total Volatile Organic Compounds (TVOC), Formaldehyde (HCHO), Particulate Matter 2.5 (PM_{2.5}), and Particulate Matter 10 (PM₁₀).
- **USB Charging:** Equipped with a 1200mAh rechargeable lithium battery, supporting continuous operation via USB power.
- **Accurate Sensing:** Designed with convection air openings on both sides and the back for enhanced real-time measurement accuracy.
- **Backlit LCD Screen:** Features a clear, backlit LCD display for easy reading of air quality data.
- **Alarm Function:** Includes an alarm to alert users when pollutant levels exceed predefined thresholds.



Figure 1: Front view of the Sanpyl Air Quality Monitor, displaying various air quality parameters on its LCD screen.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Sanpyl Air Quality Monitor
- 1 x USB Cable
- 1 x User Manual



Figure 2: The Sanpyl Air Quality Monitor shown alongside its included USB charging cable.

3. SETUP AND CHARGING

3.1 Initial Charging

1. Before first use, fully charge the device using the provided USB cable. Connect the small end of the USB cable to the monitor's charging port and the larger end to a standard USB power adapter (not included) or a computer USB port.
2. The battery indicator on the LCD screen will show charging status. A full charge typically takes a few hours.
3. The device can operate continuously while connected to a USB power source.

3.2 Placement

- Place the monitor on a flat, stable surface in the area where air quality is to be measured.
- Ensure that the air inlets/outlets (located on the sides and back) are not obstructed to allow for accurate air circulation.
- Avoid placing the device near strong air currents (e.g., open windows, fans), direct sunlight, or heat sources, as this may affect sensor readings.



Figure 3: Back view of the Sanpyl Air Quality Monitor, showing the air vents and potential mounting points.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

- To power on, press and hold the power button (usually located on the side or top) until the LCD screen illuminates.
- To power off, press and hold the power button again until the screen turns off.

4.2 Understanding the Display

The LCD screen displays real-time readings for all detected parameters. Each parameter (HCHO, TVOC,

PM2.5, PM10, CO, CO₂) will have its current concentration shown, typically with corresponding units (mg/m³, ug/m³, ppm).



Figure 4: Close-up of the monitor's display, showing readings for HCHO, TVOC, PM2.5, PM10, CO, and CO₂, along with a color-coded air quality indicator.

A color-coded bar or indicator at the bottom of the screen typically represents the overall air quality level (e.g., Good, Slight, Moderate, Serious).

4.3 Alarm Function

The device is equipped with an alarm that activates when detected pollutant levels exceed safe thresholds.

Refer to the on-screen indicators or audible alerts for warnings.

4.4 Calibration (If Applicable)

Some air quality monitors may require periodic calibration for optimal accuracy. If your device features a calibration function, consult the specific instructions in the included printed manual for details on how to perform it. Typically, calibration involves exposing the device to fresh outdoor air for a set period.

5. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use liquid cleaners or sprays, as they may damage the sensors or internal components.
- **Sensor Care:** Avoid obstructing the air inlets/outlets. Do not attempt to clean the internal sensors directly.
- **Storage:** When not in use for extended periods, store the monitor in a cool, dry place away from direct sunlight and extreme temperatures.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low battery or no power.	Connect the device to a USB power source using the provided cable and allow it to charge.
Inaccurate or fluctuating readings.	Obstructed air vents, device placed near strong air currents, or sensor interference.	Ensure air vents are clear. Relocate the device to a stable environment away from drafts, direct sunlight, or strong chemical odors. Allow time for sensors to stabilize.
Alarm sounds frequently.	High pollutant levels detected.	Ventilate the area. Identify and address the source of pollution. If the alarm persists in a well-ventilated area, consider recalibration if available, or contact support.
Screen is dim or unreadable.	Low battery or display settings.	Charge the device. Check if there are any brightness settings (refer to the printed manual if available).

7. SPECIFICATIONS

Parameter	Value/Range
Model Number	Sanpyl84ru3n5gzx-11
Detection Technology	Semiconductor, Infrared, Electrochemical
Applicable Temperature	0-70°C (32-158°F)
Display Mode	LCD, Backlight
Working Voltage	5V

Parameter	Value/Range
Battery	Rechargeable Lithium Battery 1200mAh
PM2.5 Detection Range	0-999 ug/m ³
PM10 Detection Range	0-999 ug/m ³
HCHO Detection Range	0-9.999 mg/m ³
TVOC Detection Range	0-9.999 mg/m ³
CO2 Detection Range	400-5000 PPM
Item Weight	6.5 ounces (approx. 184g)
Package Dimensions	5.51 x 3.94 x 1.97 inches (approx. 14 x 10 x 5 cm)

8. WARRANTY AND SUPPORT

This product comes with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or contact Sanpyl customer support.

For technical assistance, troubleshooting, or inquiries regarding your Sanpyl Air Quality Monitor, please visit the official Sanpyl website or contact their customer service department. Contact information can typically be found on the product packaging or the brand's official online presence.