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> MORPTRA Professional 16-in-1 Indoor Air Quality Monitor User Manual

MORPTRA 9AQI+7 AQI Alert Buzzers+Time

MORPTRA Professional 16-in-1 Indoor Air Quality Monitor User Manual

MODEL: 9AQI+7 AQI ALERT BUZZERS+TIME

1. Introduction

This manual provides essential information for the proper use and maintenance of your MORPTRA Professional 16-in-1 Indoor Air Quality Monitor. This device is designed to detect various air quality parameters in real-time, helping you maintain a healthier indoor environment. Please read this manual thoroughly before operating the device.



Image 1.1: Front view of the MORPTRA 16-in-1 Indoor Air Quality Monitor displaying various air quality metrics.

2. Product Features

- **16-in-1 Real-time Detection:** Monitors PM1.0, PM2.5, PM10, CO2, TVOC, HCHO, Temperature, and Humidity.
- **7 AQI Alert Buzzers:** Provides audible alerts for critical air quality levels.
- **One-button Operation:** Simple controls for power, unit switching, and alarm management.
- **High-precision Sensor System:** Continuously collects and analyzes air data every 3 seconds for accurate readings.
- **HD Large Color Display:** Clear and advanced display for enhanced readability.
- **Long Battery Life & Fast Charging:** Up to 4-5 hours of wireless operation with Type-C fast charging.
- **Versatile Placement:** Suitable for various indoor environments including homes, offices, cars, and nurseries.

3s Real-time High-precision Detectors

Data captured every 3 seconds
to ensure over 99.9% high precision AQI

- New Dynamic Real-time Updates
- High-Precision Detectors
 - Analyze Data Per 3s
 - 7 AQI Alert Buzzers
 - Easy Operation



Image 2.1: Illustration of the internal high-precision sensor system for real-time data analysis.

3. Package Contents

Verify that all items are present in the package:

- 1 x MORPTRA Air Quality Monitor
- 1 x Charging Adapter
- 1 x USB-C Cable
- 1 x User Manual (this document)

Product Details



Product Name: Air Quality Monitor	Package Contents
Battery: 2500mAh	• 1X Air Quality Monitor
Input: 5V-1A	• 1X TYPE-C Charging Cable
Product Size: 106mm*50mm*90mm	• 1X User Manual
Weight: 230g	

Image 3.1: Product dimensions and a list of included accessories.

4. Setup

- Initial Charge:** Before first use, fully charge the monitor using the provided USB-C cable and adapter. The battery indicator on the display will show charging status.
- Power On:** Press and hold the power button (usually located on the front or side) for a few seconds until the display illuminates.
- Placement:** Place the monitor in the desired location. Ensure it is on a stable surface and not obstructed. Avoid placing it near direct heat sources, vents, or in direct sunlight.
- Automatic Calibration:** The device will begin real-time monitoring automatically after powering on. Allow a few minutes for initial sensor stabilization.

5. Operating Instructions

- Power On/Off:** Press and hold the power button for approximately 3 seconds to turn the device on or off.
- Temperature Unit Switch (°C/°F):** A dedicated button or a short press of the power button (refer to on-screen prompts if available) allows switching between Celsius and Fahrenheit.
- Silence Alarms:** If an air quality alarm sounds, double-tap the alarm button (or a designated button) to

silence the audible alert. The visual alert on the screen will remain until the air quality improves.

- **Real-time Monitoring:** The device continuously updates readings every 3 seconds. No further action is required for continuous monitoring.

6. Understanding the Display

The monitor features a high-definition color display that presents various air quality indicators. The display uses color coding (Green for Good, Yellow for OK, Red for Poor) to quickly convey air quality status.

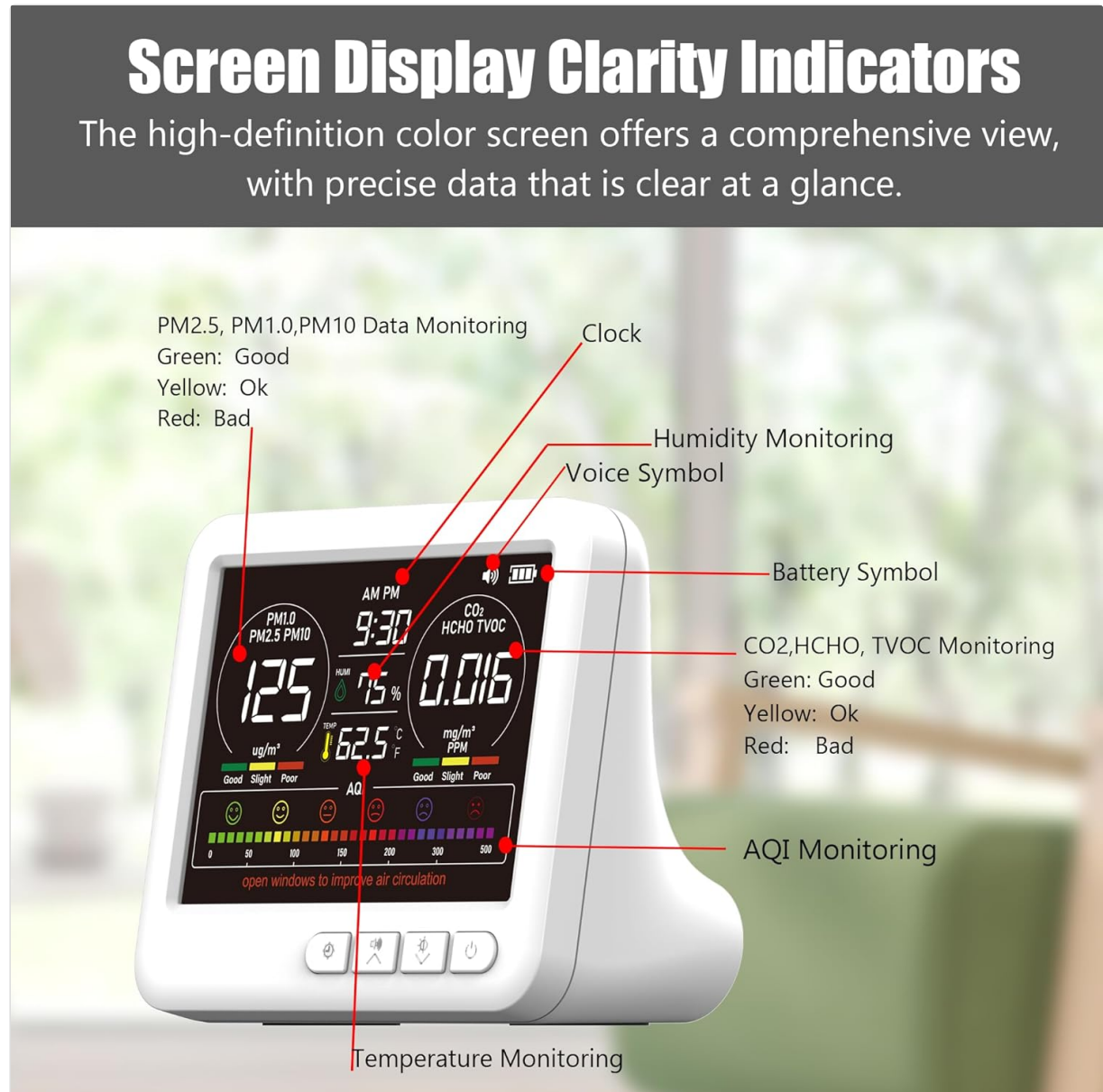


Image 6.1: Detailed breakdown of the display indicators and their functions.

- **PM1.0 / PM2.5 / PM10:** Particulate Matter readings in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). These indicate the concentration of fine inhalable particles.
- **CO2:** Carbon Dioxide levels in parts per million (ppm). High CO2 can indicate poor ventilation.
- **TVOC:** Total Volatile Organic Compounds in milligrams per cubic meter (mg/m^3). These are chemicals that can evaporate into the air.
- **HCHO:** Formaldehyde levels in milligrams per cubic meter (mg/m^3). A common indoor air pollutant.
- **TEMP:** Ambient Temperature in Celsius ($^{\circ}\text{C}$) or Fahrenheit ($^{\circ}\text{F}$).
- **HUM:** Relative Humidity in percentage (%).
- **AQI:** Air Quality Index. A comprehensive indicator based on multiple pollutants, represented by a color-

coded scale and corresponding emojis.


- **Clock:** Displays the current time.
- **Battery Symbol:** Indicates the current battery level.
- **Voice Symbol:** Indicates if audible alerts are enabled or disabled.

7. Air Quality Alarms

The MORPTRA monitor is equipped with 7 types of AQI alert buzzers to notify you when specific air quality parameters exceed safe thresholds. These alerts are designed to prompt action, such as improving ventilation.

Important 7 Kinds of Alert Buzzers

Air quality becomes visual, talks,
and gives you a higher quality of life.



	GOOD	OK		POOR		
PM1.0						
PM2.5	≤50ug/m ³	50-150 ug/m ³		>150 ug/m ³		
PM10						
CO2	<800 ppm	800-1500 ppm		>1500 ppm		
TVOC	<0.6 mg/m ³	0.6-1.5 mg/m ³		>1.5 mg/m ³		
HCHO	<0.08 mg/m ³	0.08-0.1 mg/m ³		>0.1 mg/m ³		
AQI	0-50	51-100	101-150	151-200	201-300	301-500
Alert Buzzers	none		none		BB...BB...	

Double-Click To Toggle The Buzzer Alarm On Or Off

Image 7.1: Air quality level thresholds and associated alert conditions.

When an alert is triggered, the device will emit an audible buzzer. To silence the buzzer, double-tap the designated alarm button. The visual indication on the display will persist until the air quality returns to acceptable levels.

8. Charging and Battery

The monitor is powered by a high-performance lithium battery, offering 4-5 hours of wireless operation on a full charge. It can also operate continuously when connected to the Type-C charger.

- **Charging Time:** A full charge typically takes approximately 4.5 hours.
- **Charging Indicator:** The battery icon on the display will animate during charging and show full when complete.
- **Charging Port:** Use the provided USB-C cable and adapter to charge the device.

Easily Switch Between Cordless / Charging Mode

Can last up to 4-5 hours on a single charge and fully charges in 4.5 hours. It can also be connected to the Type-C charger for 24h uninterrupted monitoring.



Image 8.1: Information on battery life and charging components.

9. Placement and Usage Scenarios

The MORPTRA air quality monitor is designed for versatile placement and can be used in various indoor settings to monitor air quality effectively.

- **Recommended Locations:** Bedrooms, living rooms, offices, nurseries, kitchens, cars, and greenhouses.
- **Placement Options:** The device can stand on a table, be mounted on a wall, or carried with you for portable monitoring.
- **Considerations:** For accurate readings, place the monitor away from direct airflow (e.g., open windows, air conditioning vents) and sources of high humidity or temperature fluctuations.

3 Way to Place It Anywhere You Want

Easy to stand on a table, hang on a wall,
or carry around with you



Office



Baby Room



Greenhouse

Indoor



Pet House



Cars



Image 9.1: Examples of suitable environments for placing the air quality monitor.

10. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use liquid cleaners or aerosols, as they may damage the sensors or internal components.
- **Sensor Care:** Avoid obstructing the sensor vents. Do not attempt to clean the internal sensors directly.
- **Storage:** When not in use for extended periods, store the device in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Battery:** For optimal battery health, avoid completely draining the battery frequently. Charge the device regularly.

11. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on	Low battery; Power button not pressed correctly	Charge the device fully; Press and hold the power button for 3 seconds.

Problem	Possible Cause	Solution
Inaccurate readings	Sensor obstruction; Device placed in an unsuitable environment; Initial calibration period	Ensure sensor vents are clear; Relocate the device away from direct airflow or pollutants; Allow 5-10 minutes for sensors to stabilize after power-on.
Alarm not sounding	Audible alarm disabled; Air quality not exceeding threshold	Check the voice symbol on the display to ensure alarms are enabled; Refer to the alarm threshold table (Section 7) to confirm conditions.
Battery drains quickly	Aging battery; Continuous use in high-power mode (e.g., with backlight always on)	Ensure the device is fully charged; Reduce screen brightness if adjustable; Consider keeping it plugged in for extended use.

12. Specifications

Parameter	Value
Brand	MORPTRA
Model Number	9AQI+7 AQI Alert Buzzers+Time
Power Source	Battery Powered
Color	Cloud White
Product Dimensions (D x W x H)	4.17" x 3.54" x 1.97"
Item Weight	10.4 ounces (0.65 Pounds)
Alarm Type	Audible
Battery Type	Lithium Ion (1 x 12V battery included)
Measurement Accuracy	+/-0.01%
UPC	717352564370, 717710606261

13. Warranty and Support

The MORPTRA Professional 16-in-1 Indoor Air Quality Monitor comes with a **12-month warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use.

For technical support, warranty claims, or any questions regarding your device, please contact MORPTRA customer service through the retailer's platform or the official brand website. Please have your purchase receipt and model number ready when contacting support.

14. Product Overview Video

Watch this video for a visual overview of the MORPTRA Professional Portable Indoor Air Quality Monitor.

Your browser does not support the video tag.

Video 14.1: An overview of the MORPTRA Professional Portable Indoor Air Quality Monitor, demonstrating its features and use.

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