CIS 7-01

User Manual

CIS 7-in-1 Air Quality Monitor

Model: 7-01

1. Introduction

Thank you for choosing the CIS 7-in-1 Air Quality Monitor. This device is designed to provide real-time monitoring of various indoor air quality parameters, including Carbon Dioxide (CO2), Formaldehyde (HCHO), Total Volatile Organic Compounds (TVOC), Humidity, and Temperature. It also displays the current time and date, helping you maintain a healthy living and working environment.

Its intuitive LED display ensures clear readability, and its compact design makes it suitable for various settings such as homes, offices, schools, and more.

2. Product Overview

The CIS 7-in-1 Air Quality Monitor features a clear display and user-friendly controls. Familiarize yourself with the device's components and layout.

2.1. Device Components and Display

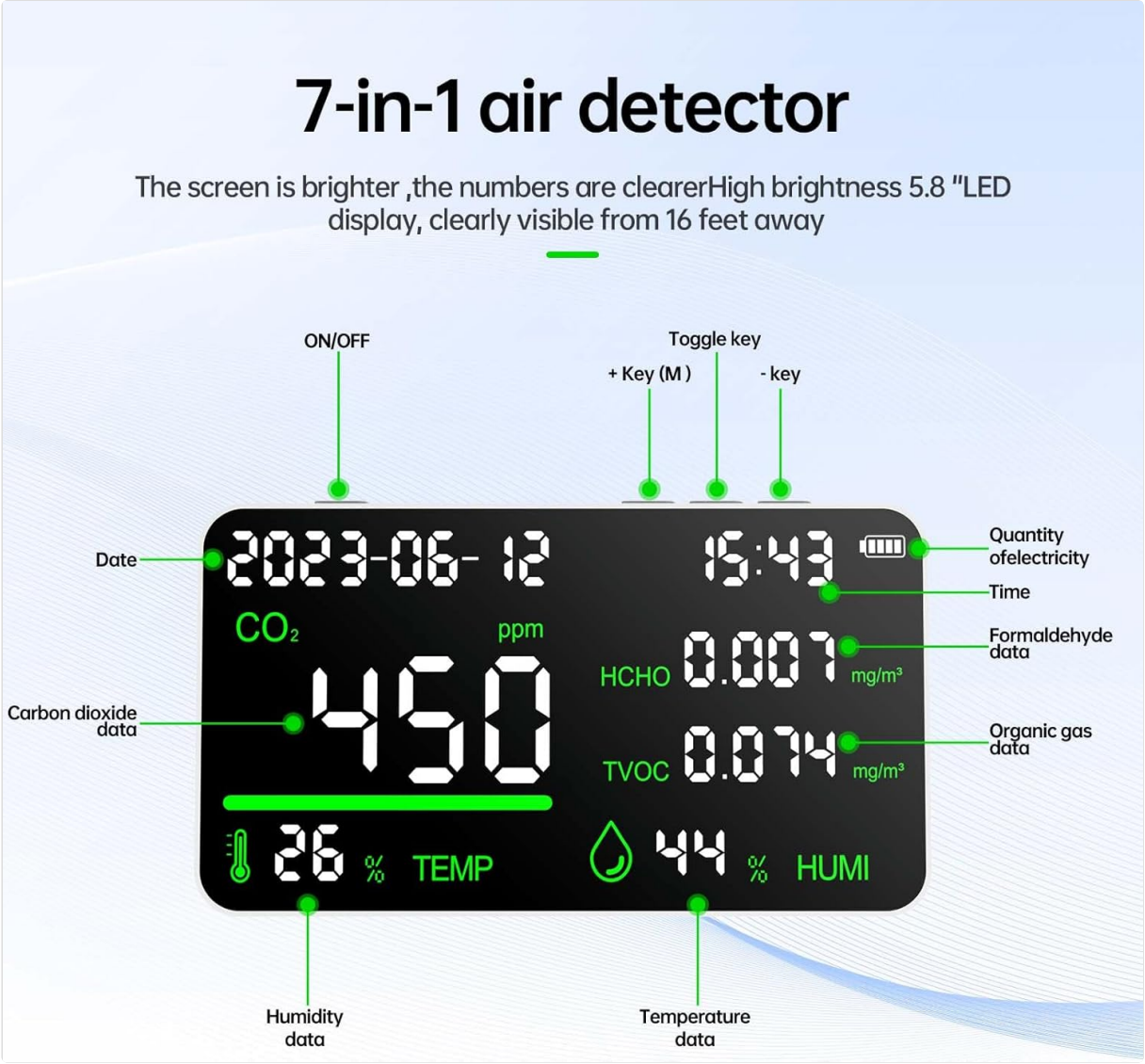

Figure 2.1: Front view of the monitor with key display elements and buttons labeled. This includes the date, time, CO2 data, HCHO data, TVOC data, humidity data, temperature data, ON/OFF button, Toggle key (+/-), and M key.

The monitor's display provides real-time readings for Carbon Dioxide (CO2), Formaldehyde (HCHO), Total Volatile Organic Compounds (TVOC), Temperature, and Humidity. It also shows the current Date, Time, and Battery level.

2.2. Controls and Ports

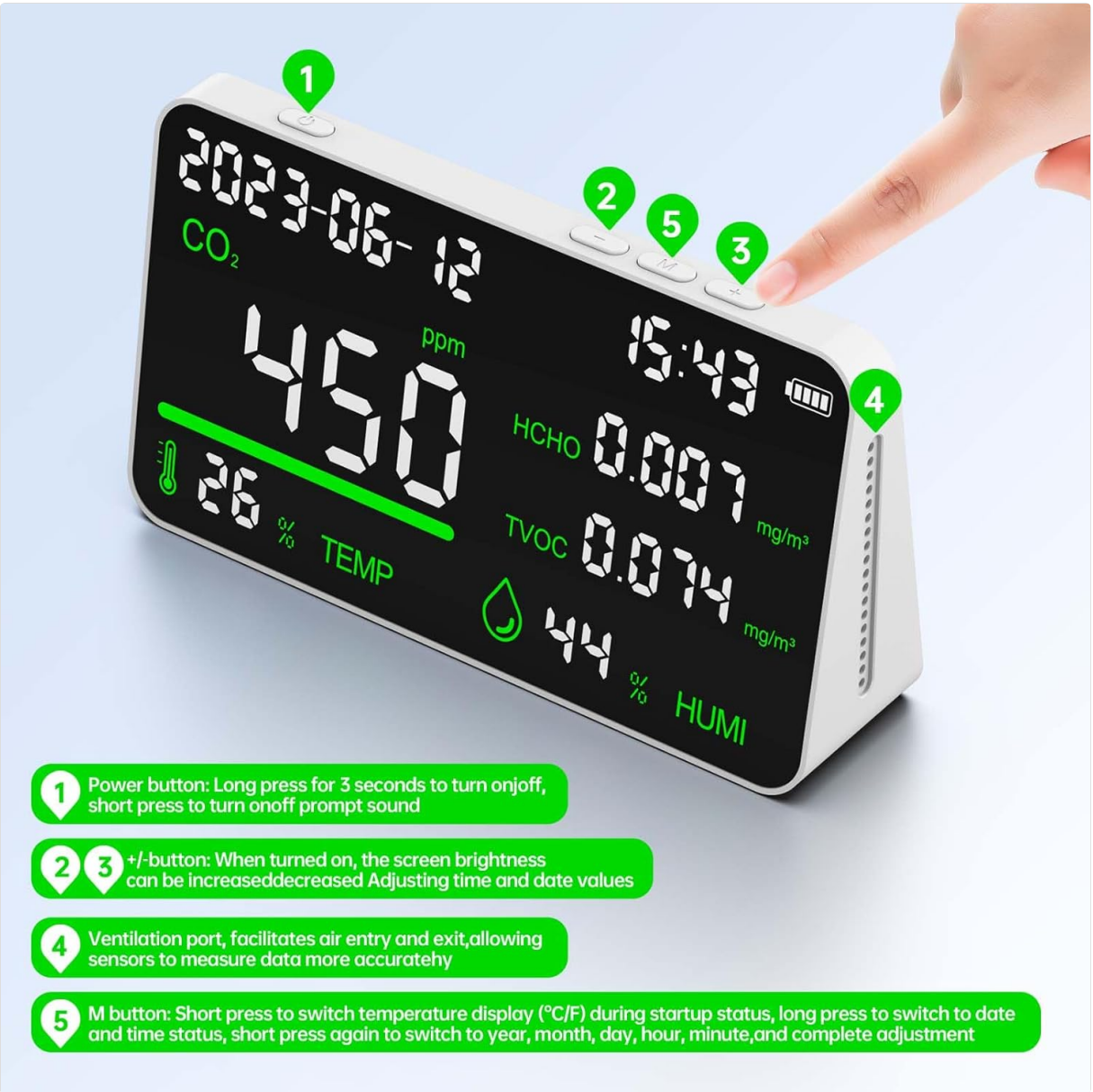

Figure 2.2: Top and side view highlighting the control buttons and ventilation ports. (1) Power button, (2) and (3) +/- buttons, (4) Ventilation port, (5) M button.

The device features a Power button, '+' and '-' buttons for adjustments, an 'M' button for mode switching, and ventilation ports for accurate air sampling.

- **Power Button:** Long press for 3 seconds to turn on/off. Short press to turn on/off prompt sound.
- **+/- Buttons:** When turned on, short press to adjust screen brightness. Long press to increase/decrease values during time/date setting.
- **M Button:** Short press to switch temperature display (°C/°F) during startup status. Long press to switch to date and time status for adjustment. Short press again to cycle through year, month, day, hour, minute for complete adjustment.
- **Ventilation Port:** Facilitates air entry and exit, allowing sensors to measure data more accurately. Ensure these ports are not obstructed for optimal performance.

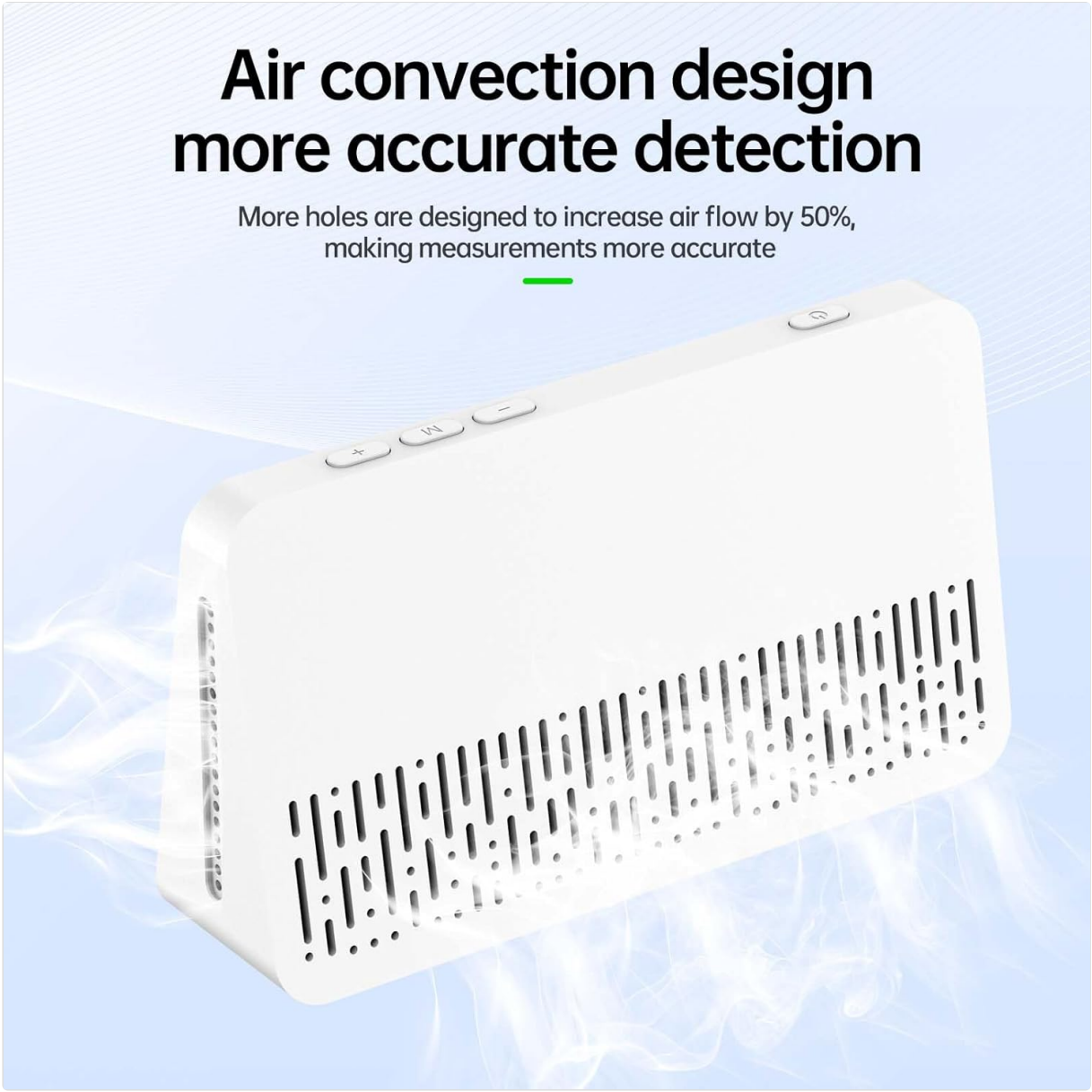

Figure 2.3: The air convection design with multiple holes to increase airflow for more accurate detection.

3. Setup

3.1. Initial Charging

Before first use, fully charge the device. The monitor is equipped with a 2000mAh rechargeable battery.

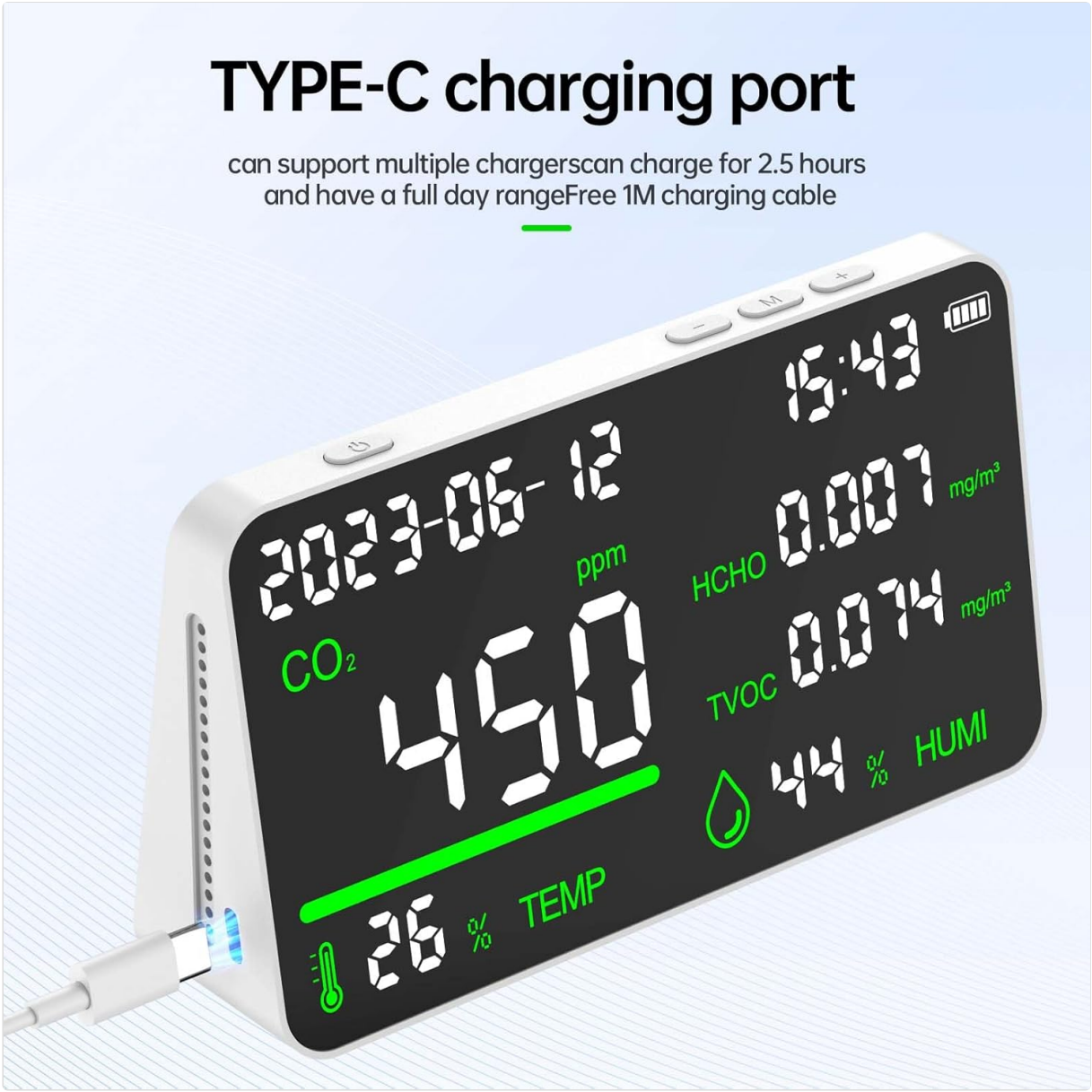

Figure 3.1: The monitor's USB-C charging port. A full charge takes approximately 2.5 hours.

Connect the provided USB-Type-C charging cable to the device's charging port and a suitable USB power adapter (not included). A full charge typically takes about 2.5 hours and provides approximately 24 hours of working time.

3.2. Powering On/Off

To power on the device, long press the Power button for 3 seconds. To power off, long press the Power button again for 3 seconds.

3.3. Initial Calibration

For optimal accuracy, it is recommended to perform an initial calibration outdoors in fresh air. After powering on, place the device outdoors for at least 2 minutes to allow the sensors to stabilize with ambient air.

4. Operating Instructions

4.1. Understanding the Display

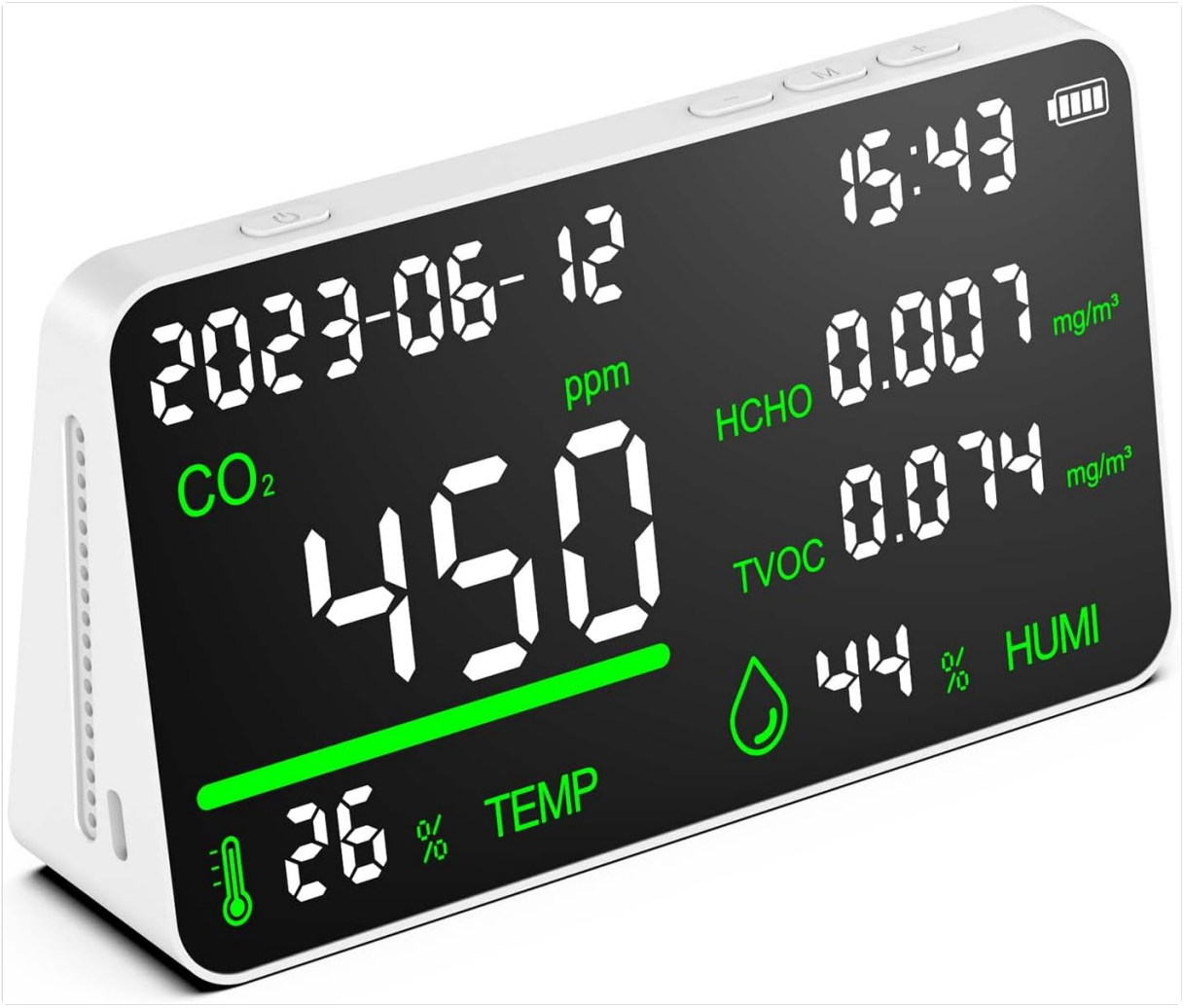

Figure 4.1: The main display showing real-time readings for various air quality parameters.

The large LED display provides clear, real-time readings for all monitored parameters. The CO2 level is prominently displayed in PPM (parts per million). HCHO and TVOC are displayed in mg/m³.

4.2. Switching Temperature Units (°C/°F)

During normal operation (startup status), short press the 'M' button to toggle between Celsius (°C) and Fahrenheit (°F) for temperature display.

4.3. Setting Date and Time

To adjust the date and time, long press the 'M' button. The display will enter date and time setting mode. Short press the 'M' button again to cycle through Year, Month, Day, Hour, and Minute. Use the '+' and '-' buttons to adjust the selected value. Once all values are set, long press 'M' again to exit setting mode.

4.4. Screen Brightness Adjustment

When the device is on, short press the '+' or '-' buttons to adjust the screen brightness.

4.5. Alarm Function

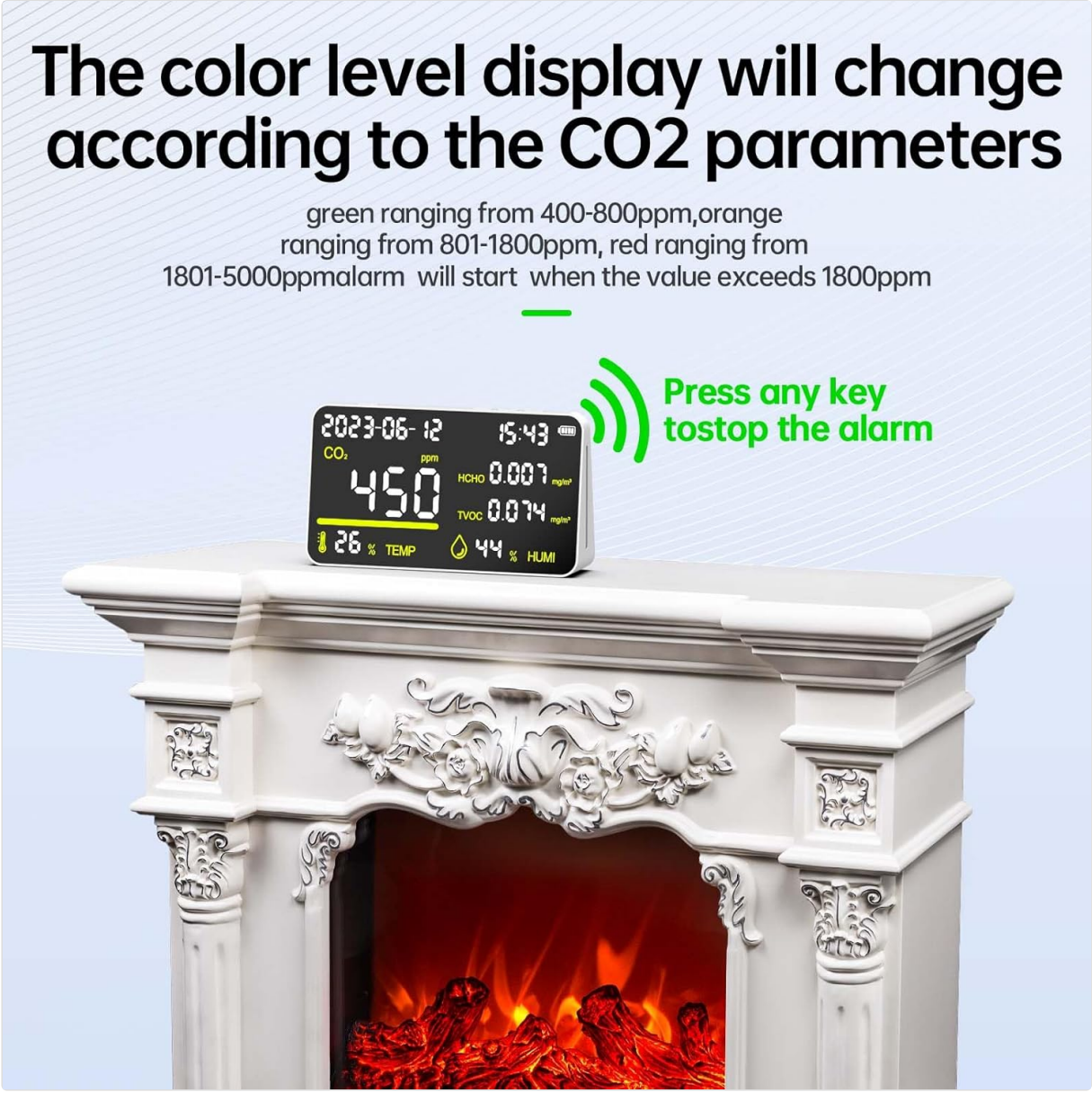

Figure 4.2: The color-coded CO2 level indicator and alarm notification. Green indicates 400-800ppm, Orange 801-1800ppm, Red 1801-5000ppm.

The monitor features an audible alarm that activates when the CO2 level exceeds 1880ppm. The display also uses a color-coded bar to indicate CO2 levels:

- **Green:** 400-800 ppm (Good air quality)
- **Orange:** 801-1800 ppm (Moderate air quality)
- **Red:** 1801-5000 ppm (Poor air quality, alarm will sound)

To silence the alarm, press any button on the device.

4.6. Energy Saving Mode

After 30 minutes of inactivity, the monitor automatically enters an energy-saving mode where most of the screen turns off, displaying only the clock and the colored LED bar for CO2 levels. To disable this feature and keep the screen continuously on, long press the Power and '-' buttons simultaneously until you hear a beep. Repeat the process to re-enable energy-saving mode.

5. Maintenance

5.1. Cleaning

Wipe the device gently with a soft, dry cloth. Do not use abrasive cleaners or solvents, as they may damage the display or casing. Ensure no liquid enters the ventilation ports.

5.2. 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

If you encounter any issues with your CIS Air Quality Monitor, please refer to the table below for common problems and their solutions.

Problem	Possible Cause	Solution
Device does not turn on.	Low battery or no charge.	Connect to a USB-C charger and allow it to charge for at least 30 minutes before attempting to power on again.
Readings seem inaccurate or inconsistent.	Device not properly calibrated or placed in an area with poor air circulation.	Perform an outdoor calibration (see Section 3.3). Ensure the device is placed in an open area, not obstructed. Avoid placing near strong air currents or direct sources of pollutants.
Alarm sounds frequently.	High CO2 levels detected.	Increase ventilation in the area (open windows/doors). Press any button to silence the alarm.
Display goes dark after 30 minutes.	Energy-saving mode is active.	Long press the Power and '-' buttons simultaneously to disable energy-saving mode.
Temperature unit switches from °F to °C after restart.	Default setting or minor software behavior.	Simply short press the 'M' button after startup to switch back to your preferred unit.

7. Specifications

Parameter	Value
CO2 Measurement Range	400-5000 ppm
CO2 Resolution	1 ppm
HCHO Measurement Range	0-1.999 mg/m³
HCHO Resolution	0.001 mg/m³
TVOC Measurement Range	0-9.999 mg/m³
TVOC Resolution	0.001 mg/m³
Temperature Measurement Range	0-50°C
Temperature Accuracy	±1°C
Humidity Testing Range	0-99 RH

Parameter	Value
Humidity Accuracy	±2 RH
Charging Current	750mA
Charging Time	2.5 hours
Battery Capacity	2000mAh
Working Time	24 hours
Response Time	120 seconds
Material Quality	ABS
Power Source	Battery Powered
Display Type	LCD
Item Weight	13.7 ounces
Package Dimensions	7.4 x 4.69 x 2.05 inches

8. Warranty and Support

For warranty information and technical support, please refer to the product packaging or contact CIS customer service. Keep your purchase receipt for any warranty claims.

9. Important Safety Information

Please read and follow all safety instructions to prevent injury or damage to the device.

- Do not disassemble or attempt to repair the device.
- Keep away from water and high humidity environments.
- Avoid exposing the device to extreme temperatures or direct sunlight.
- Use only the specified charging cable and power adapter.
- Keep out of reach of children.