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SAF TDSPC003.001

Aranet4 Indoor Air Quality Monitor User Manual

Model: TDSPC003.001

1. Introduction

The Aranet4 Indoor Air Quality Monitor is a wireless device designed to measure CO2 levels, temperature, relative humidity, and atmospheric pressure in real-time. This monitor helps you maintain a healthy indoor environment by providing clear indications of air quality. It features an energy-efficient E-ink display and boasts an extended battery life of up to 4 years.

The device utilizes Non-Dispersive Infrared (NDIR) sensor technology for accurate and reliable CO2 measurements.

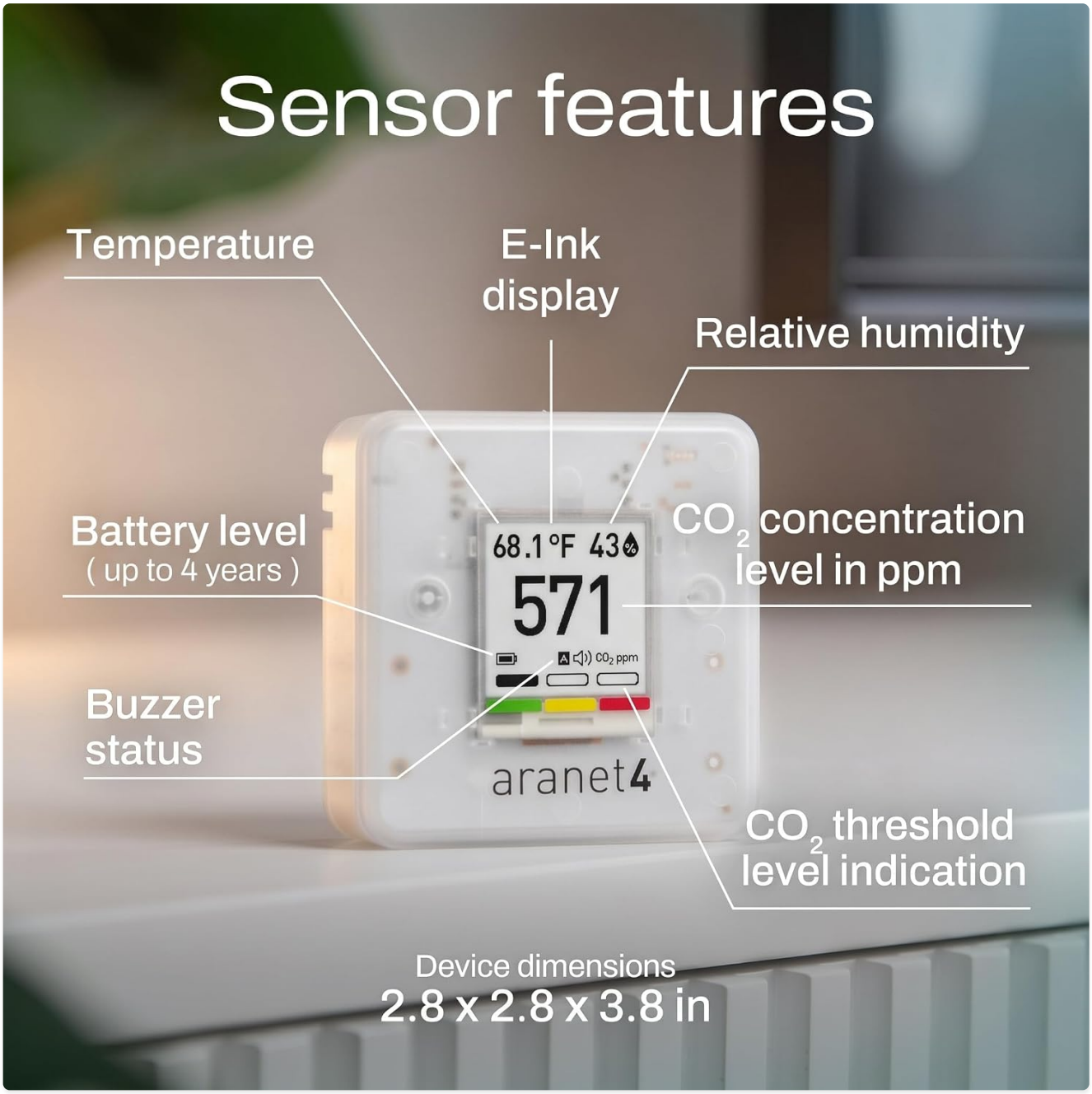


Figure 1: Aranet4 Indoor Air Quality Monitor.

Key Features:

- Real-time monitoring of CO2, temperature, relative humidity, and atmospheric pressure.
- E-ink display for clear readability and low power consumption.
- Up to 4 years of battery life.
- NDIR sensor technology for precise CO2 measurements.
- Color-coded air quality indicators and optional buzzer alerts.
- Free smartphone application for historical data analysis.

2. Setup

2.1. Battery Installation

The Aranet4 monitor requires 2 AA batteries (included). To install or replace batteries:

1. Gently remove the back cover of the device.
2. Insert the 2 AA batteries, ensuring correct polarity (+/-).
3. Replace the back cover securely.

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Video 1: Instructions on how to install batteries into the Aranet4 CO2 sensor.

2.2. Initial Power-On

Once batteries are installed, the device will automatically power on and begin displaying readings. Allow a few minutes for the sensor to stabilize and provide accurate initial measurements.

2.3. Connecting to the Aranet Home App

For detailed historical data and advanced settings, download the free Aranet Home application:

- Search for "Aranet Home" on the Google Play Store (for Android devices) or the Apple App Store (for iOS devices).
- Install the application on your smartphone.
- Follow the in-app instructions to pair your Aranet4 device via Bluetooth.



Figure 2: The Aranet Home app interface for smart air quality tracking.

3. Operating Instructions

3.1. Understanding the Display

The Aranet4's E-ink display provides real-time information at a glance:



Figure 3: Aranet4 display showing CO2, temperature, humidity, and air quality levels.

- **CO2 Concentration:** The large central number indicates the CO2 level in parts per million (ppm).
- **Temperature:** Displayed in degrees Fahrenheit or Celsius.
- **Relative Humidity:** Shown as a percentage.
- **Battery Level:** An icon indicates the remaining battery charge.
- **CO2 Threshold Level Indication:** A color bar (green, yellow, red) visually represents the current CO2 level relative to healthy thresholds.
- **Buzzer Status:** An icon indicates if the audible alert is active.

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Video 2: Guide on how to interpret the Aranet4 CO2 sensor display.

3.2. Air Quality Indicators and Alerts

The Aranet4 uses a color-coded system to indicate air quality based on CO2 levels:

- **Green:** Good air quality (CO2 levels are within optimal range).
- **Yellow:** Moderate air quality (CO2 levels are elevated, consider ventilation).
- **Red:** Poor air quality (CO2 levels are high, immediate ventilation is recommended).

An optional audible buzzer can be configured via the Aranet Home app to alert you when CO2 levels exceed a set threshold.

3.3. Using the Aranet Home App

The Aranet Home app allows you to:

- View current and historical data for CO2, temperature, humidity, and pressure.
- Analyze data trends over periods of up to 90 days with user-friendly graphs.
- Adjust device settings, including CO2 thresholds and buzzer activation.
- Perform manual calibration if necessary.

4. Maintenance

4.1. Cleaning

To ensure optimal performance, keep the Aranet4 monitor clean. Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or allow moisture to enter the device.

4.2. Battery Replacement

The device uses 2 AA batteries, which typically last up to 4 years. Replace batteries when the low battery indicator appears on the display. Refer to Section 2.1 for battery installation instructions.

4.3. Calibration

The Aranet4 features automatic calibration. For best results, ensure the device is exposed to fresh outdoor air periodically. Manual calibration can be performed via the Aranet Home app if needed, following the instructions provided within the app.

5. Troubleshooting

Common Issues and Solutions:

- **Device not turning on:** Check if batteries are inserted correctly and are not depleted. Replace batteries if necessary.
- **Inaccurate readings:** Ensure the device is not placed near heat sources, direct sunlight, or in areas with poor air circulation. Perform a manual calibration if readings consistently seem off after exposure to fresh air.
- **Cannot connect to app:** Ensure Bluetooth is enabled on your smartphone and the Aranet4 device is within range. Restart both the device and the app, then attempt to pair again.
- **Buzzer not sounding:** Check the buzzer settings in the Aranet Home app to ensure it is enabled and the CO2 threshold is set appropriately.

For further assistance, refer to the Aranet Home app's help section or contact customer support.

6. Specifications



Figure 4: The Aranet4 utilizes an advanced NDIR sensor for reliable CO2 monitoring.

Feature	Detail
Product Dimensions	2.76 x 2.76 x 0.94 inches
Item Weight	3.67 ounces
Manufacturer	SAF Tehnika
Model Number	TDSPC003.001
ASIN	B07YY7BH2W
Batteries	2 AA batteries (included)
Battery Life	Up to 4 years

Feature	Detail
Sensor Type	NDIR (Non-Dispersive Infrared) for CO2
Display Type	E-ink
Connectivity	Wireless (Bluetooth for app connection)

7. Warranty Information

For detailed warranty information regarding your Aranet4 Indoor Air Quality Monitor, please refer to the official SAF Tehnika website or the documentation included with your purchase. Warranty terms typically cover manufacturing defects for a specified period from the date of purchase.

8. Support

If you encounter any issues or have questions about your Aranet4 device, please utilize the following resources:

- **Aranet Home App:** The application often contains FAQs and troubleshooting guides.
- **Manufacturer's Website:** Visit the official SAF Tehnika website for product support, updated manuals, and contact information.
- **Retailer Support:** Contact the retailer from whom you purchased the device for assistance.

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Video 3: An overview of the Aranet4 HOME air quality monitor by the seller, ARANET USA.

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