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> YNAK 16-in-1 Air Quality Monitor Indoor 7" Display User Manual

YNAK model-EGF18

YNAK 16-in-1 Air Quality Monitor User Manual

Model: model-EGF18

[Overview](#) [Setup](#) [Operation](#) [Introduction](#) [Product](#) [Maintenance](#) [Troubleshooting](#) [Specifications](#) [Support](#)

1. INTRODUCTION

Thank you for choosing the YNAK 16-in-1 Air Quality Monitor. This device is designed to provide comprehensive, real-time insights into your indoor air environment, helping you maintain a healthier living or working space. It accurately detects various air quality parameters, ensuring you are always informed about the air you breathe.

2. PRODUCT OVERVIEW

2.1 Key Features

- **16-in-1 Monitoring:** Detects CO₂, PM_{2.5}, PM_{1.0}, PM₁₀, HCHO, TVOC, Temperature, Humidity, AQI, and Time.
- **7-inch Large Display:** Crystal clear LED display for easy readability with three brightness settings.
- **High Accuracy Sensors:** Engineered with advanced multi-sensor technology for ultra-precision readings down to 0.001 units.
- **Real-Time AQI Alerts:** Features 7 distinct audible alert buzzers for various pollution levels, with a mute function.
- **Long Battery Life:** Built-in 2500mAh battery provides up to 8 hours of cordless operation.
- **User-Friendly Controls:** Easy adjustment for time format, temperature units (°F/°C), and display brightness.

2.2 Product Components

The YNAK Air Quality Monitor is designed with precision and user convenience in mind. Below are the main components and their functions.



Figure 2.1: Front view of the YNAK 16-in-1 Air Quality Monitor, highlighting its large 7-inch display showing various air quality parameters.

Enhanced Airflow for Accurate Sensing

With more holes for more accurate air quality detection

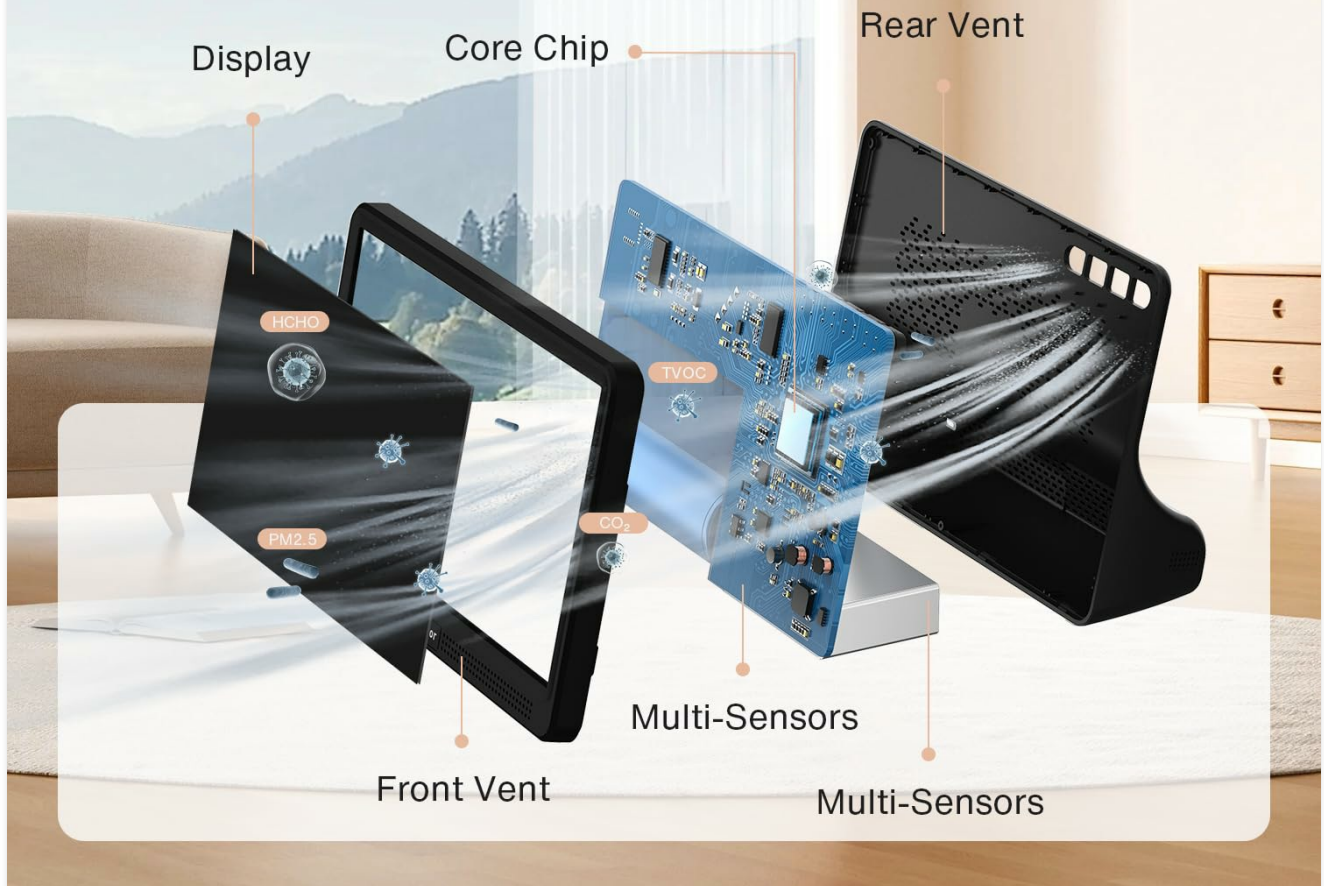


Figure 2.2: Internal structure and airflow design of the monitor, illustrating the placement of multi-sensors and vents for accurate detection.

Precision Core Chip

Ensure well-being with precise air quality tracking at 0.001 precision



$\pm 1^{\circ}\text{F} \sim \pm 3^{\circ}\text{F}$
Temp Accuracy



$\pm 2\% \text{RH} \sim \pm 3\% \text{RH}$
Humidity Accuracy



0.001
Air Sensor Accuracy



Figure 2.3: Illustration of the precision core chip, emphasizing the device's accuracy in temperature, humidity, and air quality measurements.

3. SETUP

3.1 What's in the Box

Upon opening the package, please ensure all the following items are present:

- 1 x YNAK Air Quality Monitor
- 1 x Charging Adapter
- 1 x USB-C Cable
- 1 x User Manual

3.2 Initial Power-On

1. Connect the provided USB-C cable to the monitor's charging port.
2. Plug the charging adapter into a standard wall outlet.
3. The device will automatically power on and begin displaying readings. Ensure the device is fully charged before initial

cordless use.

3.3 Placement Recommendations

For optimal performance and accurate readings, place the monitor in a central location within the area you wish to monitor. Avoid placing it:

- Near windows or doors where external air might interfere with indoor readings.
- Directly in front of air conditioners, heaters, or fans.
- In areas with high humidity or extreme temperature fluctuations.
- Near strong odors, perfumes, or cleaning agents, as these can affect sensor accuracy.



Figure 3.1: The monitor in a typical home setting, demonstrating its compact size and cordless operation.

4. OPERATING INSTRUCTIONS

4.1 Basic Operation

- **Power On/Off:** The device powers on automatically when connected to power. To power off, long press the Power button.

4.2 Time Adjustment

To set the time on your monitor:

1. **Switch Time Format:** Click the “Time button” to toggle between 12/24-hour format.
2. **Set Hours:** Long press the “Time button” to enter setting mode. Use the “Alarm button” or “Brightness button” to adjust hours.
3. **Set Minutes:** Click the “Time button” again. Use the “Alarm button” or “Brightness button” to adjust minutes.
4. **Confirm:** Click the “Time button” to save settings.



Figure 4.1: Visual guide for adjusting time and switching temperature units.

4.3 Temperature Unit Switching

To switch between Fahrenheit (°F) and Celsius (°C) units:

- Simply click the “Power button” to toggle the temperature unit.

4.4 Brightness Control

The 7-inch display features three brightness settings:

- Click the “Brightness button” to cycle through the three available brightness levels to suit your environment.

7" Large Display with 3-Level Brightness Control



Figure 4.2: Examples of the three adjustable brightness levels for the display.

4.5 Understanding Air Quality Readings

The monitor displays various parameters to give you a comprehensive view of your indoor air quality. Refer to the table below for typical ranges and their corresponding air quality status.

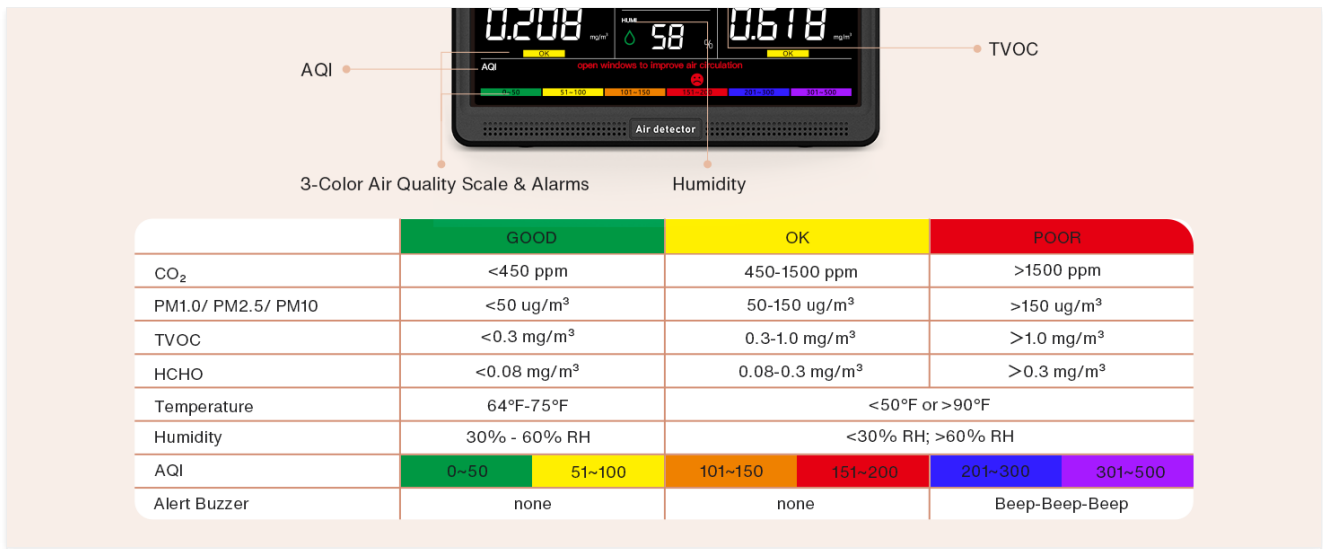


Figure 4.3: Air Quality Scale and Alarm Thresholds.

Air Quality Parameters and Meanings

Parameter	Description
CO₂ (Carbon Dioxide)	A gas produced by human respiration and combustion. High levels can cause drowsiness and headaches.
PM_{2.5}, PM_{1.0}, PM₁₀ (Particulate Matter)	Microscopic solid or liquid particles suspended in the air. PM _{2.5} and PM _{1.0} are fine particles that can penetrate deep into the lungs.
HCHO (Formaldehyde)	A volatile organic compound (VOC) commonly found in building materials and household products. Can cause respiratory irritation.
TVOC (Total Volatile Organic Compounds)	A group of organic chemicals that can easily evaporate into the air. Sources include paints, cleaning supplies, and furnishings.
Temperature	Ambient air temperature.
Humidity	The amount of water vapor in the air.
AQI (Air Quality Index)	A standardized index that indicates the overall air quality based on multiple pollutants.

4.6 Real-Time AQI Alert Buzzers

The monitor is equipped with 7 distinct alert functions that provide real-time notifications when pollutant levels exceed safe thresholds. The display will also show a color-coded bar (Good, OK, Poor) to visually indicate air quality status.

- When an alert is triggered, an audible buzzer will sound.
- To silence the alarm, press the “Alarm button” (mute button).

Tri-Color Alarm System with Audible Alerts

Receive real-time visual and audible alerts at severe pollution levels

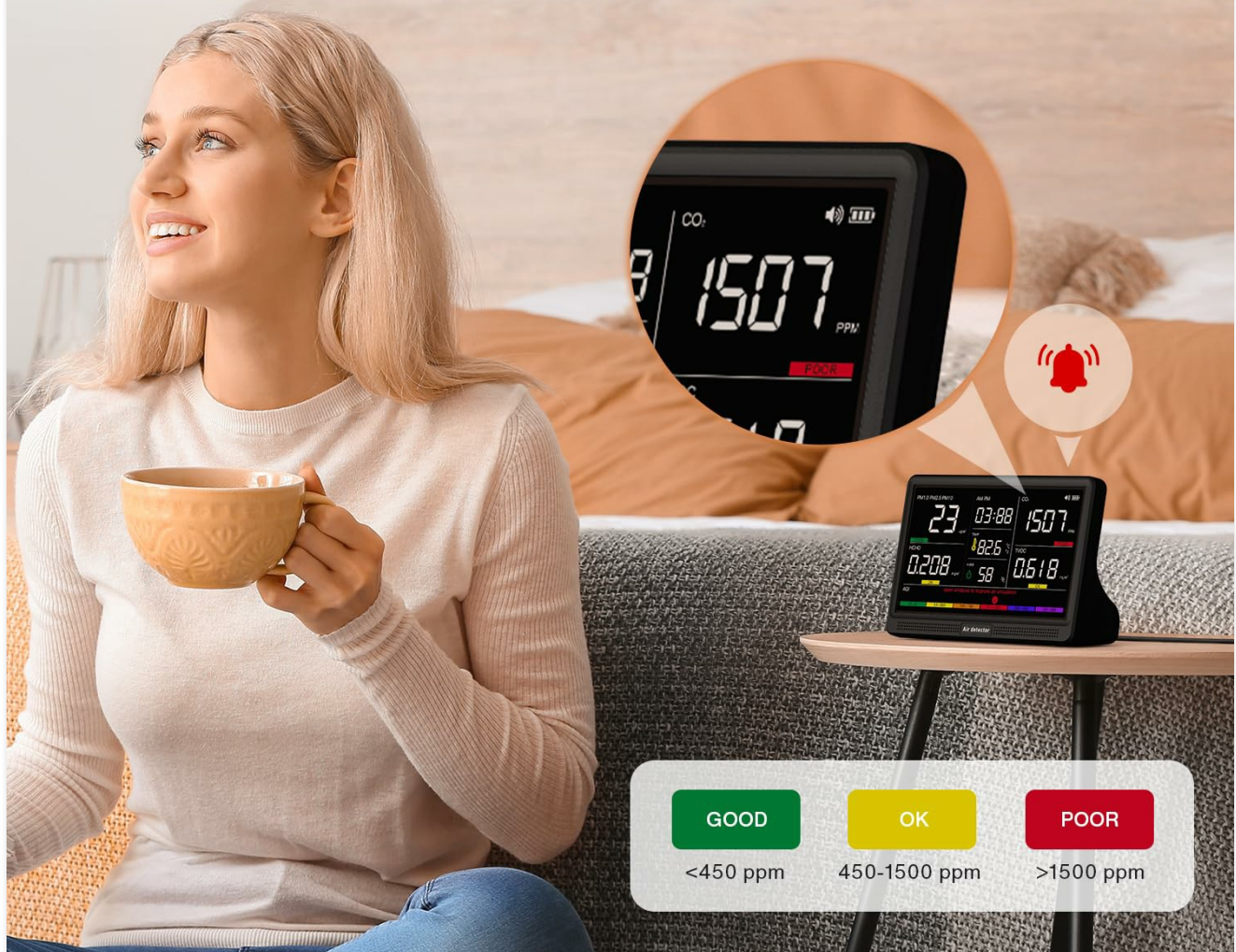


Figure 4.4: The tri-color alarm system provides visual and audible alerts for severe pollution levels.

4.7 Auto Recalibration and One-Click Reset

The monitor features auto-recalibration to maintain accuracy. If you suspect readings are off or after significant environmental changes, you can perform a manual reset:

- **One-Click Reset:** Long-press the “Power button” to reset and recalibrate the device for quick, accurate readings.
- **Important Note:** Avoid touching external sensors or air intake holes to ensure accuracy during operation and recalibration.

Auto Recalibration

One-Click Reset for Precision Renewal

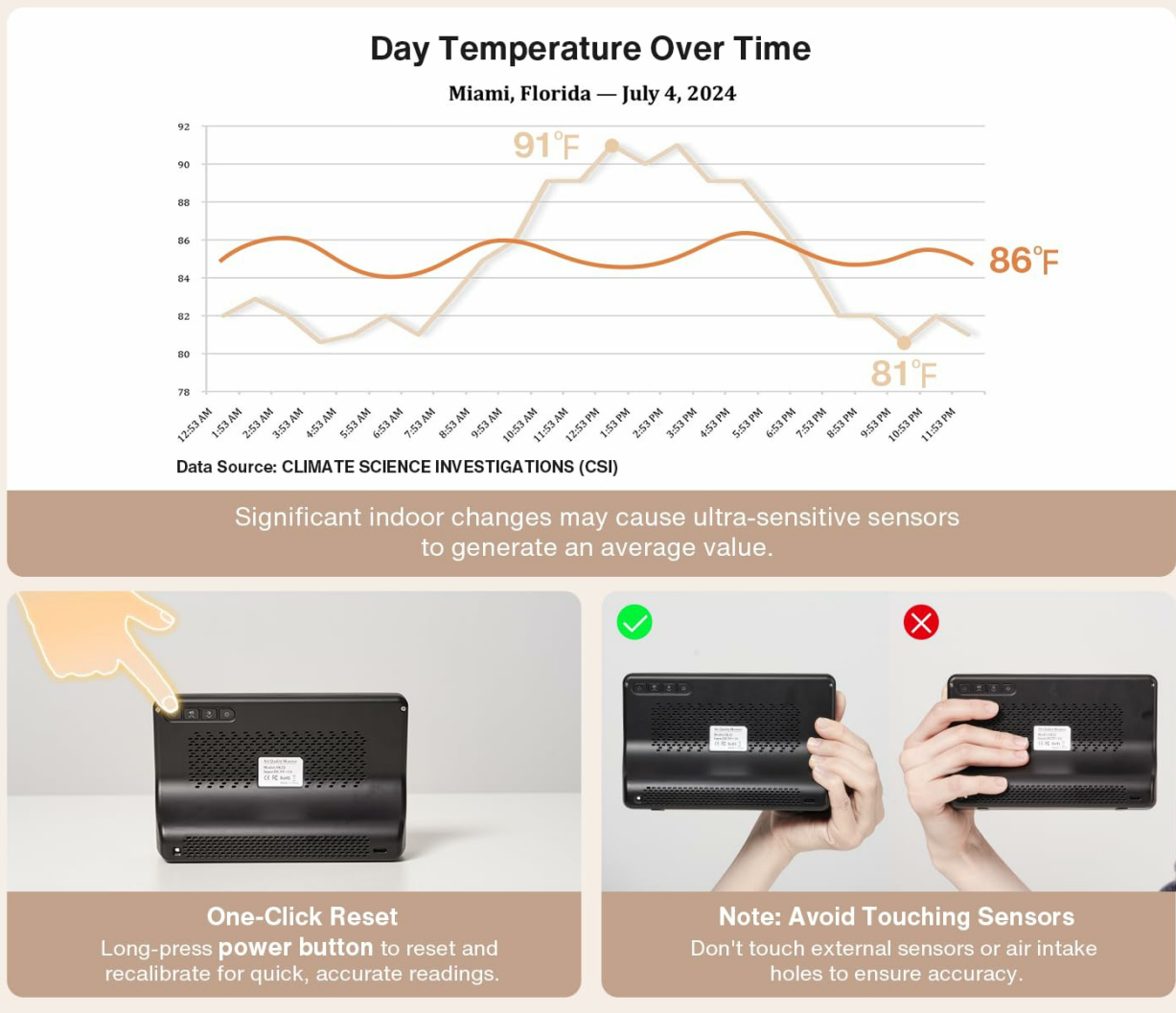


Figure 4.5: Guide for one-click reset and important sensor handling precautions.

5. MAINTENANCE

To ensure the longevity and accuracy of your YNAK Air Quality Monitor, follow these maintenance guidelines:

- **Cleaning:** Gently wipe the device with a soft, dry cloth. Do not use abrasive cleaners, solvents, or immerse the device in water.
- **Sensor Care:** Do not attempt to clean the internal sensors or insert any objects into the air intake holes. This can damage the sensors and affect accuracy.
- **Storage:** When not in use for extended periods, store the monitor in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery:** The device contains a built-in rechargeable lithium polymer battery. Do not attempt to replace the battery yourself.

6. TROUBLESHOOTING

If you encounter any issues with your air quality monitor, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Inaccurate Readings	Interference from strong odors (perfumes, cleaning products), improper placement, or sensor calibration needed.	Move the device away from sources of strong odors. Ensure proper placement away from drafts. Perform a one-click reset (recalibration).
Device Not Powering On	Low battery, charging cable/adaptor issue, or device malfunction.	Ensure the device is fully charged. Check if the USB-C cable and charging adapter are properly connected and functional. Try a different power outlet.
Alarm Sounds Frequently	High pollutant levels detected, or sensitivity setting.	Check the readings on the display to identify the pollutant. Improve ventilation (e.g., open windows). Press the mute button to silence the alarm temporarily.
Display Not Clear/Dim	Brightness setting is too low.	Click the "Brightness button" to adjust to a higher level.

If the problem persists after trying these solutions, please contact customer support for further assistance.

7. SPECIFICATIONS

Feature	Detail
Model Number	model-EGF18
Display Size	7-inch LED
Detected Parameters	CO2, PM2.5, PM1.0, PM10, HCHO, TVOC, Temperature, Humidity, AQI, Time
CO2 Accuracy	0.001 units
Temperature Accuracy	±1 to ±3 °F
Humidity Accuracy	±2% to ±3%RH
Battery Type	1 Lithium Polymer battery (included)
Battery Capacity	2500mAh
Cordless Use Time	Up to 8 hours
Power Input	USB-C
Package Dimensions	7.83 x 5.67 x 2.83 inches
Item Weight	1.32 Pounds
Manufacturer	YNAK

7.1 Certifications

The YNAK Air Quality Monitor is aligned with high-precision professional equipment and holds the following certifications:

Professional Certifications

Each air quality monitor is precisely aligned to high-precision professional equipment after three lab calibrations.



Figure 7.1: Professional Certifications for the Air Quality Monitor.

8. WARRANTY AND CUSTOMER SUPPORT

Your purchase includes a user manual for detailed instructions. For any queries, technical support, or warranty claims, our dedicated customer support team is available to assist you.

- **Customer Support:** Our support team is at your service within 24 hours to assist with any queries. Please refer to the contact information provided in the included user manual or on the product packaging.