

RISOON ZN-MT29

RISOON WiFi 15-in-1 Smart Air Quality Monitor

Model: ZN-MT29
User Instruction Manual

INTRODUCTION

The RISOON WiFi 15-in-1 Smart Air Quality Monitor (Model ZN-MT29) is a versatile device designed to accurately measure and monitor various indoor air quality parameters. This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your air quality monitor to ensure optimal performance and a healthy living environment.



Image: The RISQON WiFi 15-in-1 Smart Air Quality Monitor and its companion mobile application interface.

SAFETY INFORMATION

Please read all safety warnings and instructions before using this product to prevent injury or damage. Keep this manual for future reference.

- Do not expose the device to extreme temperatures, direct sunlight, or high humidity.
- Avoid dropping or subjecting the device to strong impacts.
- Do not attempt to disassemble or repair the device yourself. Refer to qualified service personnel.
- Keep the device away from water and other liquids.
- Ensure proper ventilation around the device for accurate readings.
- The device is designed for indoor use only.



Formaldehyde Excess: Prolonged exposure can lead to health issues such as respiratory irritation and increased cancer risk, while also damaging furniture and building materials.



Humidity Excess: High humidity promotes mold and dust mite growth, potentially triggering respiratory diseases, damaging building structures, and reducing living comfort.



Temperature Excess: High-temperature environments can cause heat-related illnesses, affect sleep and daily activities, and increase energy consumption.

Image: Understanding the potential health impacts of poor air quality, including formaldehyde, humidity, and temperature extremes.

Keep you and your family safe!

2024.04.08 23:54	
8.17°C	62.5%
AQI	328
CO ₂ ppm	1057
CO ppm	208
PM2.5 µg/m ³	112
PM10 µg/m ³	219
NO ₂ ppm	0.096
SO ₂ ppm	1.30
PM10 µg/m ³	205
PM2.5 µg/m ³	207

Briquette stove

Gas water heater

Family kitchen'

Image: Examples of common indoor environments and activities that can affect air quality, such as briquette stoves, gas water heaters, and kitchen cooking.

Upon opening the package, verify that all items are present and in good condition:

- 1 x RISOON WiFi 15-in-1 Smart Air Quality Monitor
- 1 x USB-C Charging Cable
- 1 x User Instruction Manual (this document)



Image: The product packaging, indicating the model ZN-MT29 and an internal identifier X0028UY8VF.



Image: Top of the product box, confirming the MT29 model selection.

PRODUCT OVERVIEW

The RISOON ZN-MT29 monitor is equipped with advanced sensors to detect 15 different air quality parameters, providing comprehensive data for a healthier indoor environment. It features a clear display and can be controlled via a mobile application.

Key Features:

- Measures AQI, CO₂, CO, HCHO, TVOC, PM_{0.3}, PM_{1.0}, PM_{2.5}, PM₁₀, Temperature, and Humidity.
- Integrated alarm clock and timer functions.
- High accuracy sensors with double ventilation structure for precise data.
- WiFi connectivity for remote monitoring and control via Tuya/Smart Life App.
- Portable design with a 4800 mAh battery for wired or wireless use.
- Upgraded structure and appearance for enhanced functionality.
- Features an implicit full-frequency electro-optical chemical sensor for more accurate measurements.
- Equipped with a high-performance core processor and constant convection technology for stable and accurate detection.

Indoor Air Quality Meter



AQI



Temperature



Humidity



CO2



CO



HCHO



TVOC



PM2.5



PM10



PM1.0



PM0.3



Image: Visual representation of the various air quality parameters measured by the device.

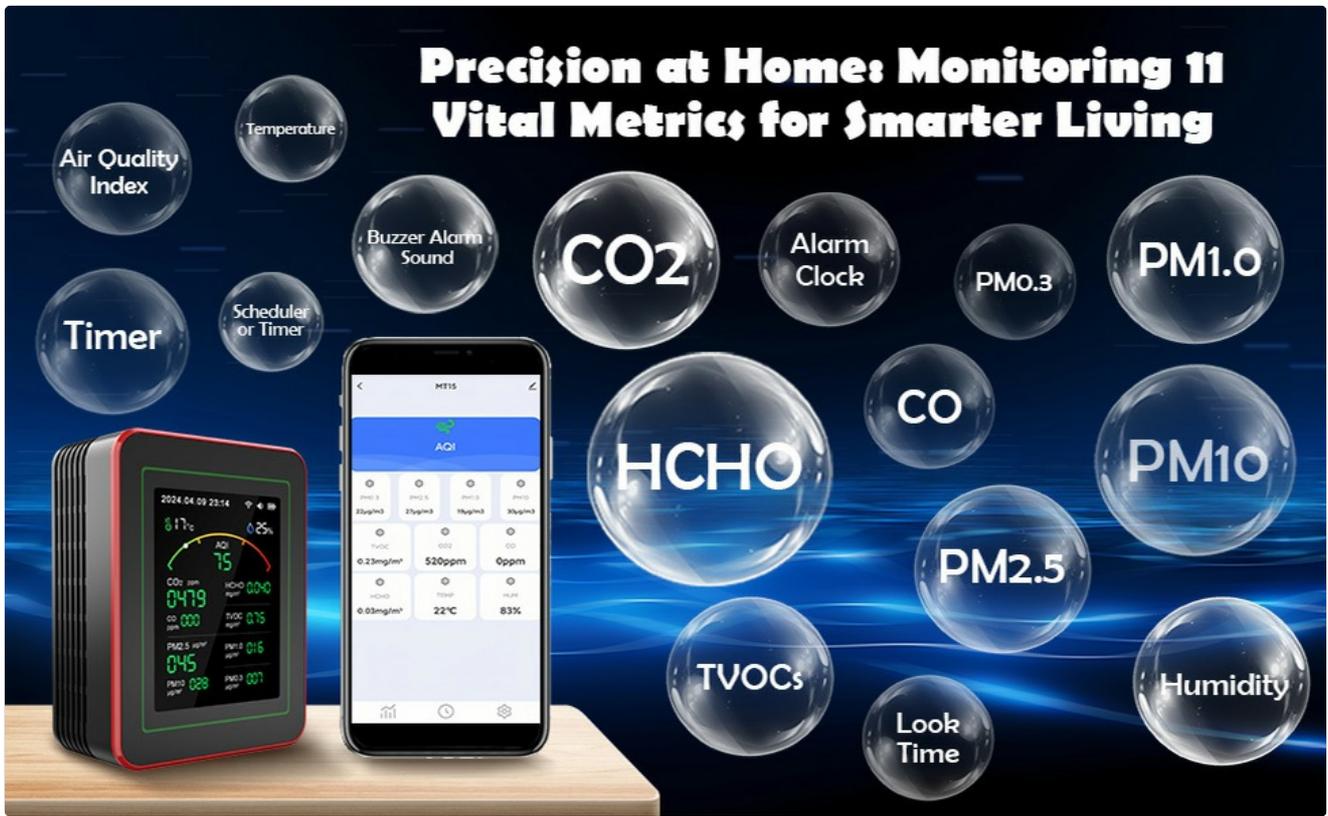


Image: An overview of the advanced technologies integrated into the MT29 for precise and fast air quality monitoring.

Air Quality Pollution Level Reference Table

CO₂	< 800ppm	> 800ppm; ≤ 1500ppm	> 1500ppm	 CO ₂	 HCHO
	(Qualified) Good	OK	poor		
HCHO	< 0.08mg/m ³	> 0.08 mg/m ³ ; ≤ 0.10 mg/m ³	> 0.10 mg/m ³	 TVOC	 PM _{2.5} /PM ₁₀
	(Qualified) Good	OK	poor		
PM_{2.5}	< 75ug/m ³	> 75-150ug/m ³	> 150ug/m ³		
	(Qualified) Good	OK	poor		
TVOC	< ≤ 0.6 mg/m ³	> 0.6 mg/m ³ ; ≤ 1.5 mg/m ³	> 1.5mg/m ³		
	(Qualified) Good	OK	poor		
PM₁₀	< ≤ 75ug/m ³	> 150ug/m ³	> 75-150ug/m ³		
	(Qualified) Good	OK	poor		

Image: The RISOON Air Quality Detector, emphasizing its 15-in-1 smart capabilities and compatibility with Tuya and 2.4 GHz WiFi.

15-in-1 High Precision NDIR and Particulate Matter Sensor

Monitor indoor air quality anytime, anywhere. Visualize the air you breathe and ensure a healthy environment for you and your family



Image: The air quality monitor in a home setting, illustrating its role in monitoring and ensuring a healthy environment for families.



Image: Diverse application scenarios for the air quality monitor, from residential to commercial and educational settings.

SETUP

1. Initial Charging

Before first use, fully charge the device using the provided USB-C cable. Connect the cable to the monitor's charging port and a standard USB power adapter (not included). The device has a 4800 mAh battery, providing extended use.

2. Powering On/Off

Press and hold the power button located on the side of the device to turn it on or off. The display will illuminate upon successful power-on.

3. App Connection (Tuya/Smart Life App)

For remote control, trend analysis, and advanced features, download the Tuya or Smart Life app from your smartphone's app store. Follow the in-app instructions to add and connect your RISOON ZN-MT29 monitor to your home WiFi network (2.4 GHz is supported). All parameters can be customized for intelligent scenarios via the app.

AIR QUALITY DETECTOR

SMART 15-IN-1

PRECISE COLLECTION AND ACCURATE QUANTIFICATION
OF VOLATILE ORGANIC COMPOUNDS IN THE AIR

MT29 WIFI MODEL



2.4 GHz



Image: The air quality monitor connected to a smartphone displaying real-time data and settings within the companion app.

Your browser does not support the video tag.

Video: An overview of the RISOON WiFi Air Quality Monitor's features, including its 15 functions, WiFi connectivity for intelligent control, and new structural design with an 8-hour standby battery life.

[OPERATING INSTRUCTIONS](#)

1. Understanding the Display

The monitor's display shows real-time readings for all measured parameters. The main screen typically shows AQI, CO₂, HCHO, TVOC, CO, PM_{0.3}, PM_{1.0}, PM_{2.5}, PM₁₀, temperature, and humidity. The date and time are also displayed.

2. Interpreting Air Quality Data

Refer to the Air Quality Pollution Level Reference Table below to understand the significance of the readings and assess your indoor air quality.

Parameter	Good	OK	Poor
CO₂	< 800ppm (Qualified) Good	> 800ppm; ≤ 1500ppm OK	> 1500ppm poor
HCHO	< 0.08mg/m ³ (Qualified) Good	> 0.08 mg/m ³ ; ≤ 0.10 mg/m ³ OK	> ≤ 0.10 mg/m ³ poor
PM_{2.5}	< 75ug/m ³ (Qualified) Good	> 75-150ug/m ³ OK	> 150ug/m ³ poor
TVOC	< ≤ 0.6 mg/m ³ (Qualified) Good	> 0.6 mg/m ³ ; ≤ 1.5 mg/m ³ OK	> 1.5mg/m ³ poor
PM₁₀	< ≤ 75ug/m ³ (Qualified) Good	> 150ug/m ³ OK	> 75-150ug/m ³ poor



Image: A reference table detailing air quality pollution levels for various parameters, indicating what constitutes "Good," "OK," and "Poor" air quality.

3. Setting Alarms and Timers

The device supports setting alarms for specific parameter thresholds and timers for scheduled operations. These can be configured directly on the device or more conveniently through the connected Tuya/Smart Life app. An immediate sound alarm will be triggered when a set standard is exceeded.

There is no need to constantly check the data.
An immediate sound alarm will
be triggered when the standard is exceeded.
Be your "little radar" for air quality



Image: The monitor's alarm feature, designed to alert users when air quality parameters exceed safe levels, acting as a personal air quality radar.

4. Remote Monitoring with App

Use the Tuya/Smart Life app to check current air quality readings from anywhere, analyze historical trends, and receive timely notifications and tips to improve your air quality. The app also allows you to check local pollen forecasts.



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Humidity Excess: High humidity promotes mold and dust mite growth, potentially triggering respiratory diseases, damaging building structures, and reducing living comfort.



Temperature Excess: High-temperature environments can cause heat-related illnesses, affect sleep and daily activities, and increase energy consumption.

Image: The air quality monitor in a bedroom setting, demonstrating its ability to provide real-time data on temperature and humidity for a comfortable environment.

MAINTENANCE

1. Cleaning

Wipe the device regularly with a soft, dry cloth. Do not use abrasive cleaners or solvents, as they may damage the surface or internal components. Ensure the ventilation openings are free from dust and debris.

2. Battery Care

To prolong battery life, avoid fully discharging the device frequently. Charge it when the battery indicator is low. If storing the device for an extended period, charge it to about 50% and recharge every few months.

3. Storage

Store the monitor in a cool, dry place, away from direct sunlight and extreme temperatures, when not in use.

TROUBLESHOOTING

1. Device Not Turning On

- Ensure the device is fully charged. Connect it to a power source and wait a few minutes before attempting to power on again.
- Check the USB-C cable and power adapter for any damage.

2. Inaccurate Readings

- Ensure the device is placed in an area with good air circulation, away from direct drafts or stagnant air.
- Avoid placing the device near strong heat sources, open windows, or areas with high concentrations of pollutants (e.g., cooking fumes, cleaning products).
- Clean the device's ventilation openings to ensure proper airflow to the sensors.

3. App Connection Issues

- Ensure your smartphone is connected to a 2.4 GHz WiFi network. The device does not support 5 GHz networks.
- Check that the device is within range of your WiFi router.
- Restart both the air quality monitor and your smartphone.
- Ensure the Tuya/Smart Life app is updated to the latest version.

SPECIFICATIONS

Parameter	Value
Brand	RISOON
Model Number	ZN-MT29
Product Dimensions	0.39 x 0.39 x 0.39 inches
Item Weight	3.53 ounces (100 Grams)
Power Source	Battery Powered (4800 mAh)
Charging Type	USB-C
Measured Parameters	AQI, CO ₂ , CO, HCHO, TVOC, PM _{0.3} , PM _{1.0} , PM _{2.5} , PM ₁₀ , Temperature, Humidity
Connectivity	WiFi (2.4 GHz)

WARRANTY AND SUPPORT

RISOON products are manufactured with high-quality standards. For any questions, technical support, or warranty claims, please contact the manufacturer directly. Refer to the contact information provided with your purchase or on the official RISOON website.