

ZN-2CO18

Generic 20-in-1 Tuya WiFi Air Quality Monitor User Manual

Model: ZN-2CO18

1. PRODUCT OVERVIEW

The Generic 20-in-1 Tuya WiFi Air Quality Monitor and Smart Weather Station is a versatile device designed to provide comprehensive environmental data. It monitors various air quality parameters and acts as a smart weather station, displaying time, date, and temperature/humidity data from multiple wireless sensors. The device features a clear 2.8-inch color TFT screen and offers smart app connectivity for real-time and historical data viewing.

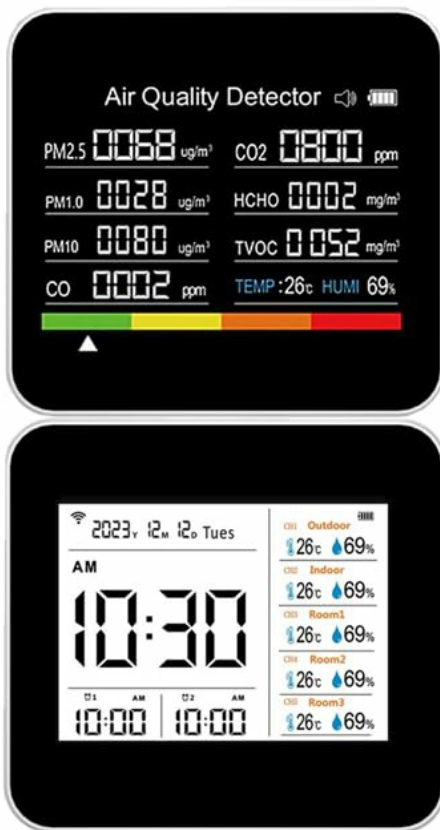


Image: The main unit displaying air quality data and time, alongside five wireless temperature and humidity sensors, and a smartphone showing the companion app interface.

2. WHAT'S IN THE BOX

- 1 x Host Unit
- 5 x Wireless Temperature and Humidity Sensors
- 1 x USB Charging Cable
- Lanyard and Velcro (for sensor mounting)
- 1 x User Manual

3. SETUP GUIDE

3.1 Initial Power On

Connect the host unit to a power source using the provided USB cable. The device will power on automatically. Ensure the host unit's internal battery is charged for portable use.

3.2 Sensor Battery Installation

Each wireless sensor requires 2 AAA batteries (not included). Open the battery compartment on the back of each sensor and insert the batteries, observing correct polarity.

3.3 Smartphone App Connection

Download the companion smartphone application (Tuya Smart or Smart Life app) from your device's app store. Follow the in-app instructions to add the air quality monitor. The host monitor will automatically synchronize its time and date with your smartphone upon connection.



Image: The smartphone app showing real-time air quality and temperature/humidity data, demonstrating connectivity with the main unit.

4. OPERATING INSTRUCTIONS

4.1 Display Modes

The host unit features a 2.8-inch color TFT display. Upon power-on, it will initially display 7 air quality parameters. After 5 seconds, it will switch to display the time and 5 temperature and humidity parameters from the wireless sensors. The two display screens will alternate every 5 seconds.

To fix the current display interface, press the key three times consecutively. To exit the fixed display interface and resume alternating, press the key three times consecutively again.



Image: The two primary display modes of the host unit: one showing detailed air quality metrics (PM2.5, CO2, HCHO, etc.) and the other showing time, date, and temperature/humidity from connected sensors.

4.2 Air Quality Parameters

The monitor detects the following air quality parameters:

- PM2.5, PM1.0, PM10 (Particulate Matter)
- CO2 (Carbon Dioxide) - NDIR infrared sensor
- CO (Carbon Monoxide) - Electrochemical sensor
- HCHO (Formaldehyde)
- TVOC (Total Volatile Organic Compounds)



Image: The air quality monitor displaying CO₂ levels, indicating the use of a high-precision NDIR infrared sensor for accurate readings.



Image: The monitor's display showing a comprehensive overview of air quality parameters, current date, time, and temperature/humidity readings from connected sensors.

4.3 Smart App Features

The smartphone app allows you to:

- View real-time air quality and weather data remotely.
- Access 1-year historical data (day, month, year).
- Adjust display brightness.
- Switch between Celsius and Fahrenheit temperature units.
- Set alarms for specific parameter thresholds.



smart APP, which can monitor data in real time and view historical data

Image: The main unit and time display unit on a table, illustrating that the smart app allows real-time data monitoring and historical data viewing, with automatic time/date synchronization.

5. PLACEMENT AND USAGE ENVIRONMENTS

The compact and lightweight design makes the monitor suitable for various environments. The sensors offer multiple mounting options including stand, wall mount, and paste mount using double-sided tape or suspension holes. They also come with a lanyard and Velcro for flexible placement.

Smart Wifi Air Quality Detector

Suitable for various occasions

cold storage

office

farms



Greenhouse shed



aquarium



family



fridge



school



fish tank



Image: Visual representation of diverse applications for the Smart WiFi Air Quality Detector, highlighting its suitability for homes, offices, farms, cold storage, and other specific environments.

Hanging rope and wall hanging

Lanyard hole



Velcro: Battery cover

Lanyard



Velcro: Stick to the wall



Image: Details on the multiple mounting options for the sensors, including a lanyard hole for hanging and Velcro for attaching to surfaces.

6. MAINTENANCE

To ensure optimal performance and longevity of your air quality monitor:

- Keep the device clean by wiping it with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- Ensure proper ventilation around the device; do not block air inlets or outlets.
- Replace AAA batteries in the wireless sensors as needed to maintain continuous data transmission.
- Store the device in a cool, dry place when not in use for extended periods.

7. TROUBLESHOOTING

7.1 No Display/Device Not Powering On

- Ensure the USB cable is securely connected to the host unit and a working power adapter.
- Check if the power adapter is functioning correctly.
- Allow the internal battery to charge for at least 30 minutes before attempting to power on again.

7.2 Sensors Not Transmitting Data

- Verify that fresh AAA batteries are correctly installed in each sensor.
- Ensure sensors are within the effective range of the host unit.
- Check for any physical obstructions between the sensors and the host unit that might interfere with the wireless signal.

7.3 App Connectivity Issues

- Ensure your smartphone's Wi-Fi is enabled and connected to a stable network.
- Verify that the air quality monitor is connected to the same Wi-Fi network.
- Restart both the monitor and your smartphone, then try connecting again.
- Update the app to the latest version.

8. SPECIFICATIONS

Feature	Detail
Model Number	2CO18 (with 5 Sensor)
Product Dimensions (Host)	89mm x 83mm x 36mm (3.5 x 1.4 x 3.3 inches)
Product Dimensions (Sensor)	59mm x 59mm x 19mm
Host Net Weight	165g (0.36 lbs)
Sensor Net Weight	40g (0.09 lbs)
Display Type	2.8-inch Color TFT Screen (Host), 2-inch LCD Display (Sensor)
Connectivity	Wi-Fi
Power Source	Battery Powered (1 Lithium Metal battery included for host, 2 AAA batteries per sensor, not included)
Monitored Parameters	PM2.5, PM1.0, PM10, CO2, CO, HCHO, TVOC, Temperature, Humidity, Time, Date, Alarm Clock
CO2 Sensor Type	NDIR Infrared Sensor
CO Sensor Type	Electrochemical Sensor
Material	Acrylonitrile Butadiene Styrene (ABS)

2CO18, Product Dimensions

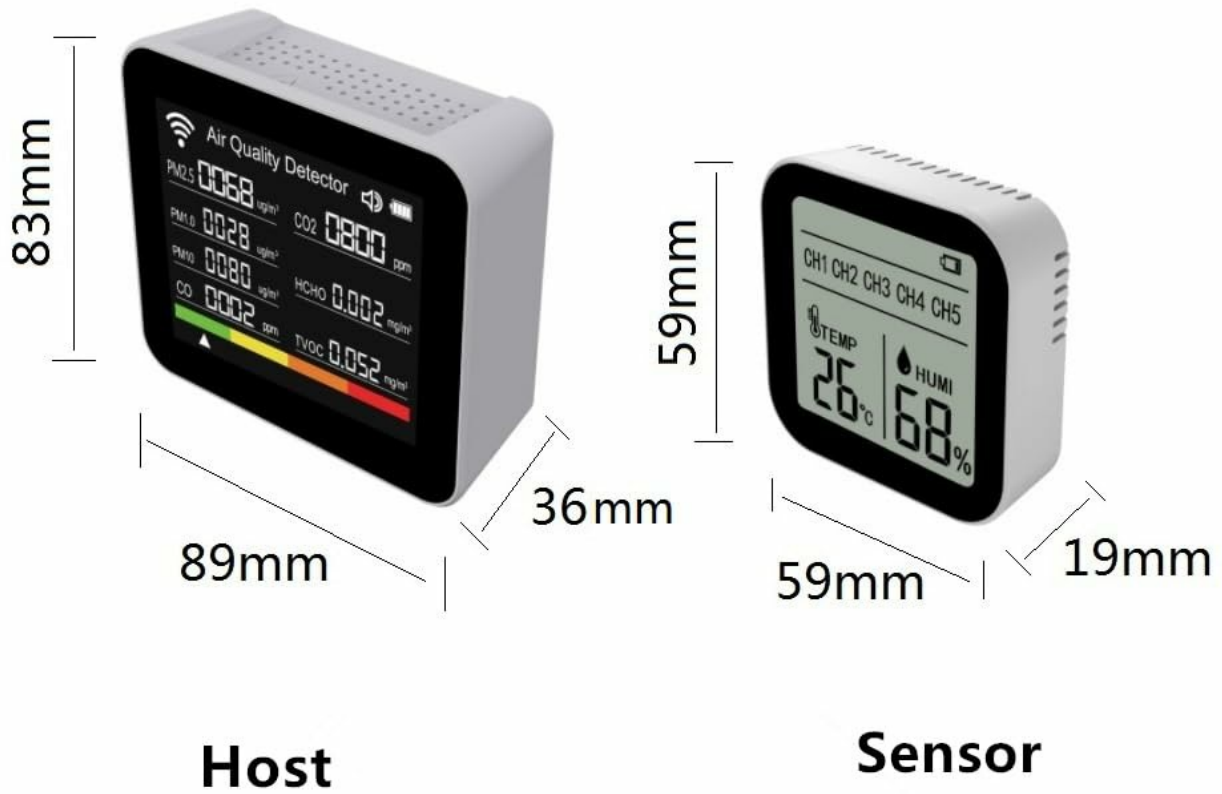


Image: Detailed product dimensions for both the main host unit and the individual wireless sensors.

9. PRODUCT VIDEO

Your browser does not support the video tag.

Video: An official product video demonstrating the features and usage of the Generic 20-in-1 Tuya WiFi Air Quality Monitor, including its various sensors and smart app integration.

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the contact details provided in the packaging or visit the manufacturer's official website. Keep your purchase receipt for warranty claims.

