Walfront TH06

Walfront TH06 WiFi Smart Thermometer Hygrometer Sensor User Manual

Model: TH06

1. PRODUCT OVERVIEW

The Walfront TH06 WiFi Smart Thermometer Hygrometer Sensor is a digital device designed for real-time monitoring of indoor temperature and humidity. It features a large LCD display for easy readability and connects via Wi-Fi for smart home integration and remote data observation through a mobile application. The device is powered via USB, ensuring continuous operation without the need for batteries.

Image: Front view of the Walfront TH06 WiFi Smart Thermometer Hygrometer Sensor, displaying temperature, humidity, time, and date on its large LCD screen.

Image: Back view of the TH06 sensor, showing the model number (TH06), input specifications (DC 5V/1A), and Wi-Fi frequency (2.4GHz).

Key Features:

- **Real-Time Data Observation:** Provides instant temperature and humidity readings.
- **°C/°F Unit Conversion:** Allows users to switch between Celsius and Fahrenheit display units.
- **USB Power Supply:** Ensures continuous monitoring without battery replacement.
- **Intelligent Sensor:** Delivers accurate measurement data.
- **Durable Construction:** Made from quality ABS material for long service life.
- **Smart Home Integration:** Compatible with mobile applications for remote monitoring and smart automation.

2. SAFETY INFORMATION

- Do not expose the device to extreme temperatures or direct sunlight.

- Avoid placing the device in high humidity environments or near water sources.
- Use only the specified DC 5V/1A USB power supply.
- Do not attempt to disassemble or repair the device yourself. Contact qualified personnel for service.
- Keep out of reach of children.
- Ensure proper ventilation around the device.

3. PACKAGE CONTENTS

Please check the package contents upon opening to ensure all items are present and in good condition:

- 1 x Walfront TH06 Thermometer Hygrometer Sensor
- 1 x USB Data Line
- 1 x User Manual

Image: The TH06 sensor unit shown alongside its white USB data cable.

4. SETUP AND INSTALLATION

4.1 Powering On the Device

1. Locate the USB port on the back of the TH06 sensor.

2. Connect the provided USB data line to the sensor's USB port.

3. Plug the other end of the USB data line into a DC 5V/1A USB power adapter (not included) or a compatible USB power source.

4. The device will power on automatically, and the LCD display will illuminate, showing initial temperature and humidity readings.

Image: The TH06 sensor connected via USB, demonstrating its use in monitoring environments with a heater and a humidifier.

4.2 Mobile App Installation and Pairing

To utilize the smart features and remote monitoring capabilities, download and install the compatible mobile application (e.g., Smart Life or Tuya Smart app) on your smartphone.

1. Scan the QR code in the user manual or search for "Smart Life" or "Tuya Smart" in your mobile app store (Google Play Store for Android, Apple App Store for iOS).
2. Install and open the application. Register or log in to your account.
3. Ensure your smartphone's Bluetooth and Wi-Fi are enabled.
4. In the app, tap "Add Device" or the "+" icon. The app may automatically detect the TH06 sensor. If not, select "T&H Sensor" or "Temperature & Humidity Sensor" from the device list.
5. Follow the on-screen prompts to connect the sensor to your home Wi-Fi network. You will need to enter your Wi-Fi password.
6. Once successfully paired, the device will appear in your app's device list, and you can view real-time data and configure settings.

Your browser does not support the video tag.

Video: A demonstration of unboxing, powering on, and connecting the TH06 Thermometer Hygrometer Sensor to a mobile application, showing the pairing process and real-time data display.

5. OPERATION

5.1 Reading the Display

The large LCD display shows current temperature, humidity, time, and day of the week. The Wi-Fi signal strength and battery indicator (though USB powered, it may show connection status) are also visible.

Accurate measurement
Real-time update without delay

Temperture accuracy:±1℃   Humidity accuracy:±5%RH

1℃ | 5%RH

room temperasure | relalive humidity

Image: Close-up of the TH06 display, highlighting its accuracy in temperature (±1℃) and humidity (±5% RH) measurements with real-time updates.

5.2 Switching Temperature Units (°C/°F)

The device supports switching between Celsius (°C) and Fahrenheit (°F) units. This can typically be done via the mobile application settings or by pressing a reset button on the device (refer to the specific button on your device if available, or rely on app control).

°F and °C Switch

You can switch temperature unit between °F and °C just through press of the reset button one time.

Image: Two TH06 displays side-by-side, illustrating the temperature unit conversion from Celsius to Fahrenheit.

5.3 Smart Home Integration and Automation

Through the mobile app, you can set up smart scenes and automations based on temperature and humidity readings. For example, you can configure the system to automatically turn on an air conditioner if the temperature exceeds a certain threshold or activate a humidifier if humidity drops too low.

Intelligent Linkage

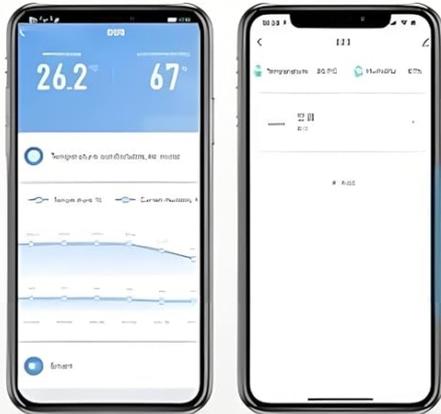Intelligent Linkage to Improve Indoor Temperature and Humidity
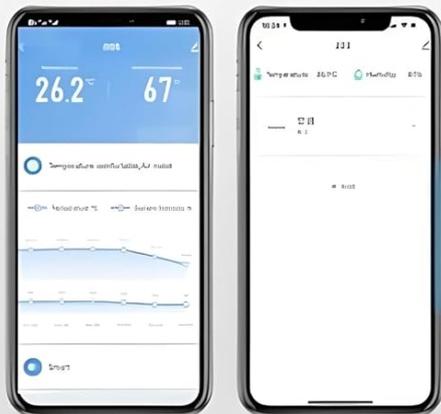
IOS   Android   + WiFi IR Remote

26.2℃

When the indoor temperature reaches 26.2°C, turn on the air conditioner

air conditioner

67.0%

When the humidity is lower than 67.0 %, turn on the humidifier

WiFi humidifier

Image: A diagram illustrating how the TH06 sensor can intelligently link with other smart devices (like air conditioners or humidifiers) via a Wi-Fi IR remote, triggered by temperature or humidity conditions.

The TH06 sensor is also compatible with popular voice assistants like Amazon Alexa and Google Assistant, allowing for voice-controlled inquiries about current environmental conditions.

Image: The TH06 sensor displayed next to Amazon Echo devices, with a speech bubble showing a user asking Alexa for the temperature.

6. MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Placement:** Ensure the device is placed in a location with good air circulation, away from direct heat sources, vents, or windows that could affect readings.
- **Software Updates:** Periodically check the mobile application for firmware updates for the TH06 sensor to ensure optimal performance and new features.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Device not powering on.	No power supply or faulty USB cable/adapter.	Ensure the USB cable is securely connected and the power adapter is working. Try a different USB port or adapter.
Cannot connect to Wi-Fi.	Incorrect Wi-Fi password, weak signal, or unsupported Wi-Fi band (only 2.4GHz supported).	Double-check Wi-Fi password. Move the device closer to the router. Ensure your router is set to 2.4GHz.
Inaccurate readings.	Device placed near heat/cold sources, vents, or in direct sunlight.	Relocate the device to a central area away from drafts, direct sunlight, or appliances that generate heat/cold. Allow time for readings to stabilize.
App not displaying real-time data.	Poor Wi-Fi connection, app not refreshed, or device offline.	Check Wi-Fi signal strength. Refresh the app. Ensure the device is powered on and connected to Wi-Fi.

8. SPECIFICATIONS

Parameter	Value
Model	TH06
Material	ABS
Input	DC 5V/1A
LED Indicator	Blue
Frequency	2.4GHz
Wi-Fi Standard	IEEE 802.11 b/g/n
Temperature Measurement Range	0°C~60°C (32°F~140°F)
Temperature Accuracy	±1°C
Humidity Measurement Range	0% RH-99% RH
Humidity Accuracy	±5% RH
Unit Conversion	°C/°F (optional)
Product Dimensions	5.51 x 3.15 x 0.79 inches
Item Weight	3.17 ounces (0.09 Kilograms)
Mounting Type	Tabletop
Country of Origin	China

9. WARRANTY AND SUPPORT

Walfront products are designed and manufactured to the highest quality standards. For information regarding warranty

coverage, technical support, or service inquiries, please refer to the contact information provided with your purchase or visit the official Walfront website.