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Walfront S09

Walfront Intelligent Hygrometer Thermometer S09 User Manual

1. INTRODUCTION

This manual provides detailed instructions for the Walfront Intelligent Hygrometer Thermometer, Model S09. This device is designed to accurately measure ambient temperature and humidity, and features integrated infrared remote control capabilities for smart home automation. It allows for remote monitoring and control of your environment and compatible infrared appliances through a dedicated mobile application.



Figure 1: Front view of the Walfront S09 Intelligent Hygrometer Thermometer.

2. PRODUCT OVERVIEW

2.1 Package Contents

Upon unpacking, please ensure all the following items are present:

- 1 x Intelligent Hygrometer Thermometer (Model S09)
- 1 x Data Cable (USB to Micro USB)
- 1 x User Manual (this document)

2.2 Key Features

- **Accurate Measurement:** Monitors surrounding temperature and humidity in real-time.
- **Infrared Remote Control:** Activates infrared appliances such as TVs, fans, speakers, and lights. Supports IR 38KHz and 2.4GHz frequencies.
- **Intelligent Linkage Function:** Allows for automation rules, such as turning on an air conditioner when a specific temperature threshold is exceeded.

- **APP Control:** Remote control and monitoring via the Smart Life or Tuya mobile applications.
- **Voice Control:** Supports voice commands for convenient operation.
- **Durable Construction:** Made from ABS material for stable and reliable use.

2.3 Device Layout



Figure 2: Front display panel and its indicators.

The device's display provides the following information:

- **Temperature Display:** Shows current temperature in Celsius (°C) or Fahrenheit (°F).
- **Humidity Display:** Shows current relative humidity in percentage (%).
- **WiFi Signal:** Indicates network connectivity status.
- **Week:** Displays the current day of the week.
- **AM or PM:** Indicates morning or afternoon for the real-time display.
- **Real-time Display:** Shows the current time.
- **Date Display:** Shows the current year, month, and day.



Figure 3: Back view of the device, showing the stand and power input.

The back of the device includes the Micro USB power input port and a foldable stand for desktop placement.

3. SETUP

3.1 Powering the Device

1. Connect the provided data cable to the Micro USB port on the back of the S09 device.
2. Connect the other end of the data cable to a DC5V power adapter (not included) or a compatible USB power source.
3. The device display will illuminate, indicating it is powered on.

3.2 App Installation and Pairing

To utilize the smart features, download and install the **Smart Life** or **Tuya** application on your smartphone or tablet.

1. Search for "Smart Life" or "Tuya" in your device's app store (App Store for iOS, Google Play Store for Android).

2. Install the application and create an account or log in if you already have one.
3. Ensure your smartphone is connected to a 2.4GHz Wi-Fi network. The S09 device supports 2.4GHz Wi-Fi.
4. Open the app and follow the on-screen instructions to add a new device. Typically, you will select "Add Device" or the "+" icon, then choose the appropriate device category (e.g., "Sensor" or "Infrared Remote Control").
5. The app will guide you through the pairing process, which may involve putting the S09 into pairing mode (often indicated by a blinking Wi-Fi icon on the display).
6. Once successfully paired, the device will appear in your app, and the Wi-Fi icon on the S09 display will become solid.

4. OPERATING INSTRUCTIONS

4.1 Temperature and Humidity Monitoring

Once powered on, the S09 device will automatically begin measuring and displaying the current ambient temperature and humidity on its screen. The readings are updated regularly to provide real-time environmental data.

- **Temperature Unit:** The temperature can be displayed in Celsius (°C) or Fahrenheit (°F). This setting can typically be adjusted within the Smart Life or Tuya app.
- **Reading Accuracy:** For optimal accuracy, place the device in a central location away from direct sunlight, heat sources, or drafts.

4.2 Infrared Remote Control Functionality

The S09 integrates an infrared remote control feature, allowing it to control various IR-enabled home appliances.

1. In the Smart Life or Tuya app, navigate to the S09 device interface.
2. Select the "Infrared Remote Control" or similar option.
3. Add a new appliance (e.g., TV, air conditioner, fan) by selecting its brand from the pre-defined library or by using the DIY learning function.
4. Once configured, you can control the appliance directly from the app, with the S09 acting as the IR transmitter.

4.3 Intelligent Linkage Function

The intelligent linkage function enables the S09 to trigger actions based on environmental conditions.



Figure 4: Example of intelligent linkage with a humidifier and app control.

1. In the Smart Life or Tuya app, go to the "Smart" or "Automation" section.
2. Create a new automation rule.
3. Set a condition based on the S09's temperature or humidity readings (e.g., "When temperature exceeds 25°C").
4. Define an action to be performed when the condition is met (e.g., "Turn on Air Conditioner" or "Turn on Humidifier").
5. Save the automation rule. The S09 will then automatically execute the action when the environmental condition is met.

4.4 APP Control and Voice Control

The Smart Life or Tuya app provides full remote control over the S09 and its linked devices.

- **Remote Monitoring:** View real-time temperature and humidity data from anywhere via the app.
- **Remote Control:** Control infrared appliances and manage automation rules remotely.
- **Voice Control:** Integrate the S09 with compatible voice assistants (e.g., Amazon Alexa, Google Assistant) through the Smart Life/Tuya app settings. Once integrated, you can use voice commands to inquire about temperature/humidity or control linked IR appliances.

5. MAINTENANCE

To ensure the longevity and accurate operation of your Walfront S09 Intelligent Hygrometer Thermometer, 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.
- **Placement:** Avoid placing the device in areas with extreme temperatures, high humidity, direct sunlight, or near strong electromagnetic fields, as these can affect sensor accuracy and device performance.
- **Power:** Use only the specified DC5V power input. Disconnect power during extended periods of non-use.
- **Firmware Updates:** Periodically check the Smart Life or Tuya app for available firmware updates for the S09 to ensure optimal performance and access to new features.

6. TROUBLESHOOTING

If you encounter issues with your Walfront S09, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on	No power supply or faulty cable/adapter.	Ensure the data cable is securely connected to both the device and a working DC5V power source. Try a different USB port or power adapter.
Cannot connect to Wi-Fi	Incorrect Wi-Fi band (not 2.4GHz), incorrect password, or device too far from router.	Ensure your router is broadcasting a 2.4GHz Wi-Fi signal. Verify the Wi-Fi password. Move the device closer to the router. Re-initiate pairing mode in the app.
Infrared remote control not working	Device not facing the appliance, appliance not compatible, or incorrect IR code learned.	Ensure the S09 has a clear line of sight to the IR receiver of the appliance. Verify the appliance model in the app. Try the DIY learning function again or select a different code set.
Inaccurate temperature/humidity readings	Device placed in an unsuitable environment (e.g., direct sunlight, near heat/cold source).	Relocate the device to a central area away from direct environmental influences. Allow some time for readings to stabilize.
App not responding or device offline	Poor Wi-Fi connection, app glitch, or device firmware issue.	Check Wi-Fi signal strength. Restart the app. Power cycle the S09 device. Check for app or device firmware updates.

7. SPECIFICATIONS

Feature	Specification
Model	S09

Feature	Specification
Input Voltage	DC5V
Infrared Frequency	38KHz
Wi-Fi Frequency	2.4GHz
Infrared Range	≤10m
Material	ABS
Dimensions (Package)	5.51 x 3.15 x 1.18 inches
Weight (Package)	3.35 ounces

8. WARRANTY AND SUPPORT

Warranty information for the Walfront Intelligent Hygrometer Thermometer S09 is not explicitly detailed in the provided product specifications. For specific warranty terms, technical support, or service inquiries, please contact the seller or manufacturer directly through their official channels.