

RUIKORING RK-TH2+TH3

RUIKORING Wireless Indoor Outdoor Thermometer and Humidity Monitor User Manual

Model: RK-TH2+TH3

1. INTRODUCTION

Thank you for choosing the RUIKORING Wireless Indoor Outdoor Thermometer and Humidity Monitor. This device provides accurate, real-time temperature and humidity readings for both indoor and outdoor environments. Please read this manual carefully before use to ensure proper operation and longevity of your device.

Package Contents

- 1 x TH2 Indoor Monitoring Unit (with 2.7-inch LCD)
- 1 x TH3 Outdoor Transmitter
- 1 x User Manual (this document)

Note: 2 AAA batteries for the TH2 indoor unit and 2 AA batteries for the TH3 outdoor transmitter are required and not included in the package.

2. PRODUCT OVERVIEW

The RUIKORING Wireless Thermometer and Humidity Monitor consists of two main components: an indoor display unit (TH2) and an outdoor remote sensor (TH3).

Key Features

- **Wireless Transmission:** Measures temperature and humidity up to 330 feet (100 meters) away, capable of penetrating obstacles.
- **High Accuracy:** Provides readings with an accuracy of $\pm 0.1^{\circ}\text{F}/^{\circ}\text{C}$ for temperature and $\pm 1\%$ for humidity.
- **Real-time Data:** Outdoor sensor transmits data every 30 seconds.
- **Display:** 2.7-inch backlit LCD with large, easy-to-read digits.

- **Max/Min Records:** Displays maximum, minimum, and current temperature/humidity readings.
- **IP66 Waterproof Sensor:** The outdoor sensor is designed to withstand harsh weather conditions (not submersible).
- **Flexible Installation:** Indoor unit offers magnetic mounting, desktop stand, and wall-mounted options.
- **Temperature Units:** Switchable between Celsius (°C) and Fahrenheit (°F).



Image 2.1: The RUIKORING TH2 indoor display unit and TH3 outdoor sensor.

300ft/100m Wireless Remote Sensor

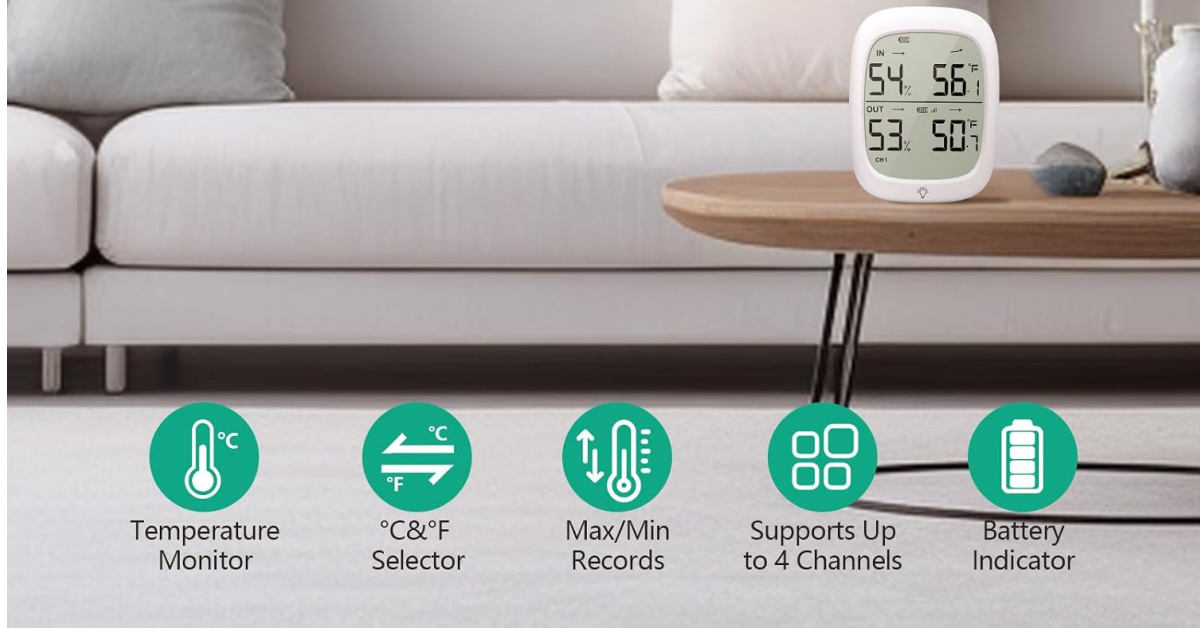


Image 2.2: Visual representation of key features including temperature monitoring, C/F selector, Max/Min records, multi-channel support, and battery indicator.

3. SETUP AND INSTALLATION

3.1 Battery Installation

1. **Indoor Unit (TH2):** Open the battery compartment cover on the back. Insert 2 AAA batteries, observing the correct polarity (+/-). Close the cover.
2. **Outdoor Transmitter (TH3):** Open the battery compartment cover. Insert 2 AA batteries, observing the correct polarity (+/-). Close the cover.

The indoor unit's display should activate, and the outdoor sensor's indicator light may flash briefly.

TWO MOUNTING OPTIONS

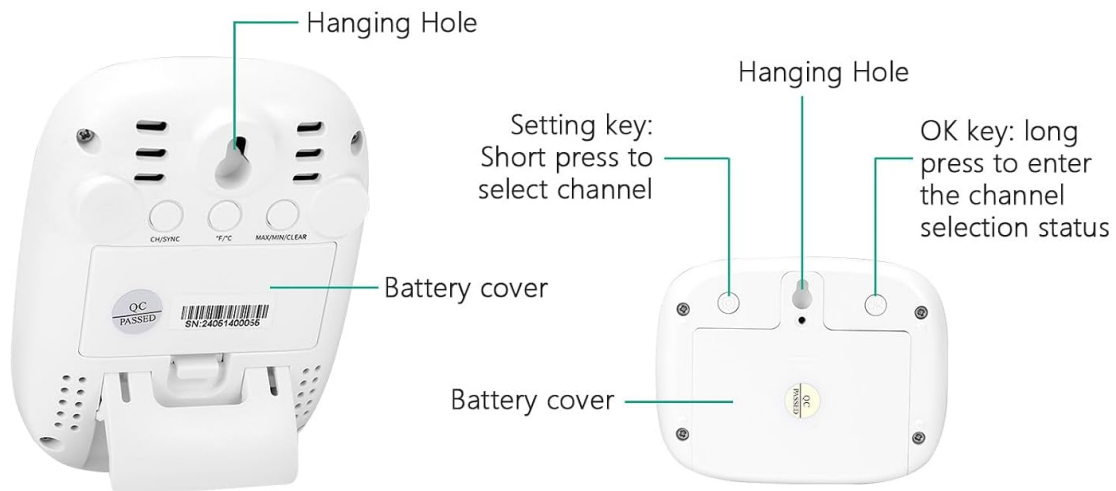


Image 3.1: Rear view of the indoor unit and outdoor sensor, showing battery compartments and mounting features.

3.2 Pairing the Units

The indoor unit (TH2) and outdoor transmitter (TH3) are typically pre-paired at the factory. Once batteries are installed in both units, they should automatically connect within a few minutes. The outdoor temperature and humidity readings will appear on the indoor unit's display.

If the outdoor readings do not appear:

- Ensure both units have fresh batteries.
- Bring the outdoor transmitter closer to the indoor unit.
- On the indoor unit, locate the "CH" or "Channel" button (refer to Image 3.1 for button location). Press and hold this button for a few seconds to initiate a re-pairing search. The outdoor unit's indicator light may flash during this process.

3.3 Placement Guidelines

Indoor Unit (TH2):

- **Desktop Placement:** Use the integrated stand to place the unit on a flat surface.
- **Wall Mounting:** Utilize the hanging hole on the back to mount it on a wall using a screw.
- **Magnetic Mounting:** The unit can be attached to metallic surfaces using its magnetic back.

- Place the indoor unit in a central location, away from direct sunlight, heat sources, or drafts that could affect readings.

Outdoor Transmitter (TH3):

- Mount the outdoor sensor in a shaded area to prevent direct sunlight from affecting temperature readings.
- Ensure it is protected from heavy rain or snow, despite its IP66 rating, to prolong its lifespan. While IP66 is water-resistant, it is not designed for submersion.
- Place it within the 330 ft (100m) wireless range of the indoor unit, minimizing obstacles like thick walls or large metal objects between the units.
- Use the keyhole mount on the back for secure installation.



Image 3.2: Examples of tabletop and wall-mounted installation for the indoor display unit.



Image 3.3: The IP66 waterproof outdoor sensor mounted on an exterior wall during rainfall.

4. OPERATING INSTRUCTIONS

4.1 Display Overview

The 2.7-inch LCD on the TH2 indoor unit displays indoor and outdoor temperature and humidity, battery status, and trend indicators. Large digits ensure readability.

LARGE LCD DISPLAY & INDOOR OUTDOOR THERMOMETER



Image 4.1: The indoor unit's LCD display showing indoor and outdoor readings, along with unit dimensions.

4.2 Backlight Function

To activate the backlight, gently touch the light bulb icon located at the bottom of the indoor unit's display. The backlight will illuminate for several seconds, making readings visible in low-light conditions.

4.3 Switching Temperature Units (°C/°F)

Locate the °C/°F button on the back of the indoor unit (refer to Image 3.1). Press this button to toggle between Celsius and Fahrenheit temperature displays.

4.4 Max/Min Records

The device automatically records the maximum and minimum temperature and humidity values over a period. To view these records, press the "MAX/MIN" button on the back of the indoor unit (refer to Image 3.1). Each press will cycle through current, maximum, and minimum readings. To clear the records, press and hold the "MAX/MIN" button for a few seconds.

4.5 Channel Selection (for multiple sensors)

While this package includes one outdoor sensor (TH3), the indoor unit (TH2) supports up to 4 wireless channels. If you purchase additional compatible outdoor sensors, you can switch between their readings

using the "CH" or "Channel" button on the back of the indoor unit. A short press will cycle through available channels. To enter channel selection status for pairing, long press the "CH" button.

5. MAINTENANCE

5.1 Battery Replacement

When the battery indicator on the display shows low power, replace the batteries in the respective unit (TH2 or TH3) with fresh ones of the correct type (2 AAA for TH2, 2 AA for TH3). Always replace all batteries in a unit at the same time.

5.2 Cleaning

Wipe the units with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these may damage the display or casing. Ensure the outdoor sensor's vents are clear of debris.

5.3 Environmental Considerations

Although the outdoor sensor is IP66 waterproof, prolonged exposure to extreme conditions (e.g., direct heavy downpours, freezing rain, or intense heat) may reduce its lifespan. Position it in a sheltered outdoor location if possible.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
No outdoor reading or "---" displayed.	- Batteries are low or incorrectly installed in the outdoor sensor. - Outdoor sensor is out of range. - Interference from other electronic devices. - Units are not paired.	- Replace batteries in the outdoor sensor. - Move the outdoor sensor closer to the indoor unit. - Relocate units away from potential interference sources. - Initiate re-pairing (long press "CH" button on indoor unit).
Inaccurate temperature/humidity readings.	- Units are exposed to direct sunlight, heat sources, or drafts. - Outdoor sensor is submerged or exposed to extreme moisture beyond its rating.	- Relocate units to a more stable environment. - Ensure outdoor sensor is in a shaded, sheltered location. - Allow time for readings to stabilize after relocation.
Display is dim or not working.	Batteries are low or depleted in the indoor unit.	Replace batteries in the indoor unit.

7. SPECIFICATIONS

Feature	Detail
Model Number	RK-TH2+TH3

Feature	Detail
Indoor Unit (TH2) Dimensions	3.15 x 1.18 x 3.15 inches (8 x 3 x 8 cm)
Outdoor Transmitter (TH3) Dimensions	Approx. 3.37 x 0.87 x 2.61 inches (8.58 x 2.23 x 6.63 cm)
Weight	6.38 ounces (total package)
Indoor/Outdoor Temperature Range	-35°F to 158°F (-37.2°C to 70°C)
Temperature Accuracy	±0.1°F/°C
Humidity Range	10% to 90% RH
Humidity Accuracy	±1% RH
Wireless Transmission Range	Up to 330 ft (100 m) in open air
Outdoor Sensor Waterproof Rating	IP66 (Water-resistant, not submersible)
Indoor Unit Power	2 x AAA batteries (not included)
Outdoor Transmitter Power	2 x AA batteries (not included)

8. WARRANTY AND SUPPORT

8.1 Limited Warranty

RUIKORING warrants this product to be free from defects in materials and workmanship for a period of one (1) year from the original date of purchase. This warranty does not cover damage caused by misuse, abuse, accident, unauthorized modification, or improper installation. Proof of purchase is required for warranty claims.

8.2 Customer Support

If you have any questions, require assistance, or encounter issues with your RUIKORING Wireless Indoor Outdoor Thermometer and Humidity Monitor, please contact our customer support team. For the most up-to-date contact information, please refer to the RUIKORING official website or your purchase platform.

Website: www.ruikoringsupport.com (Example link, please replace with actual if available)

Email: support@ruikoring.com (Example email, please replace with actual if available)