# Temperature & Humidity Monitor

Download Spec

Last update: January 12th, 2024.

A compact and exquisite temperature and humidity monitor to accurately track your indoor temperature and humidity changes. It supports both Fahrenheit and Celsius versions.

# 1. Detection Performance

## Temperature Range and Accuracy

- From -10 ℃ to +55 ℃
- Accuracy at 0.5 ℃

## Humidity Range and Accuracy

- From 0 to 99%RH
- Accuracy at 5%

# 2. Features

## Centigrade and Fahrenheit

- Support unit switching between Centigrade and Fahrenheit

> *Depends on sales region.*

## Remote setting and testing

- Setting and testing from RB Link App

## Advanced features

- Power up enrolling

> *When T&H monitor is powered up, it will automatically start paring to the hub nearby*

- Find me

> *When enabled, the T&H monitor starts flashing green, which can help identify the monitor from numerous devices.*

- Signal strength detection

> *When enabled, T&H monitor starts flashing green/orange/red showing the wireless signal strength between the hub at current installation site.*

- Low battery notification

# 3. RBF wireless technology

## Wireless signal range

- Up to **1,900 m** in an open space with hub
- Two-way communication with hub

## Frequency bands

- 868 MHz Monitor: 863 ~ 870 MHz
- 915 MHz Monitor: 902 ~ 928 MHz

> *Depends on sales region.*

## Wireless signal modulation

- FSK / DSSS

## Encrypted communication

- All the data transmitted are protected by AES-CCM encryption with a random key.

## Frequency hopping (FHSS)

- To prevent radio interference and radio signal interception.

## Time division multiple access (TDMA)

- With the help of clock synchronization technology, hub will slice time into different division for different RBF wireless devices. In this way, all devices will communicate with hub in a sequence.

# 4. Electrical Characteristics

## Power Supply

- AA Battery× 3
- Up to 5 years (standby mode)

# 5. General

### Operation Temperature

- From -10°C to +55°C (14°F to 131°F)

### Operation Humidity

- From 0% to 99%

### Storage Temperature

- From -20°C to 60°C (-4°F to 140°F)

### Dimension(WxHxD)

- 64mm × 64mm × 28mm

### Weight

- 68.5 g

## 6. Compatibility

- Operates with all Roombanker Home Security Hubs, RBF repeaters.

## 7. Complete set

| Product | Quantity |
|---|---|
| Temperature Humidity Monitor | × 1 |
| AA Battery | × 3 |
| Quick Start Guide | × 1 |

# 8. Additional information

## Available models

- RBSS-TH1-868
- RBSS-TH1-915

## Certifications

- CE, CB
- FCC
- ICASA
- RCM
- NOM
- Anatel

## Warranty

- Replacement and repair within 24 months of the date of sale. Batteries are not covered under warranty.

FCC Statement：
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1)This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, Pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.