

## RANRAO 42796J6SKE1NBFP28UW87Q459E795W

# RF433 Wireless WIFI Smart Thermostat User Manual

Model: 42796J6SKE1NBFP28UW87Q459E795W

Brand: RANRAO

## INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your RANRAO RF433 Wireless WIFI Smart Thermostat. This device is designed to offer convenient and efficient temperature control for gas boilers or water heating systems through its wireless RF433 technology and WIFI connectivity. Key features include a clear LCD touchscreen for user interaction, a high-precision temperature sensor for accurate readings, and easy integration with the Tuya APP for remote control and smart functionalities.

## SETUP GUIDE

### 1. Unpacking and Component Check

Carefully unpack all components from the box. Ensure you have the thermostat unit, the wireless receiver, and any included accessories such as cables or mounting hardware.



Image: The RF433 Wireless WIFI Smart Thermostat and its receiver unit, shown alongside the product packaging and included accessories.

## 2. Physical Installation

The thermostat unit is designed for flexible placement, while the receiver unit connects directly to your gas boiler or water heating system. Refer to the wiring diagram provided with your heating system for proper connection of the receiver. Ensure all power is off before performing any wiring.



Image: An illustration showing the wireless thermostat unit placed on a surface, wirelessly communicating with the receiver unit, which is connected to a gas boiler.

### 3. Power Connection

Connect the thermostat unit to a power source. The receiver unit will draw power from the boiler connection. Ensure both units are powered on after installation.



Image: A detailed view of the thermostat unit, highlighting its power input connection point at the base.

#### 4. WIFI Pairing

1. Ensure your smartphone is connected to a 2.4GHz Wi-Fi network.
2. Download and install the "Tuya Smart" or "Smart Life" application from your device's app store.
3. Open the app and register/log in.
4. On the thermostat, press and hold the designated button (usually the power button or a dedicated Wi-Fi button) for approximately 5 seconds to activate Wi-Fi connection mode. The Wi-Fi indicator on the thermostat will begin to flash slowly.
5. In the Tuya app, follow the on-screen instructions to add a new device. Select "Thermostat" or "Heater" from the device list.
6. Confirm the Wi-Fi indicator is flashing slowly on the thermostat and proceed with the pairing process in the app.
7. Once successfully paired, the Wi-Fi indicator on the thermostat will become solid, and the device will appear in your app.

#### OPERATING INSTRUCTIONS

## 1. Basic Temperature Adjustment

The thermostat features an LCD touchscreen for direct control. To adjust the target temperature, simply touch the screen and use the up/down arrows or numerical input to set your desired temperature. The current room temperature will be displayed prominently.

# WIFI



Image: A close-up of the thermostat's LCD touchscreen, showing the current room temperature and set temperature, along with time and mode indicators.

## 2. Remote Control via App

Once paired with the Tuya app, you can control your thermostat from anywhere with an internet connection. The app allows you to:

- Adjust temperature settings.
- Set heating schedules and programs.
- Change operating modes (e.g., manual, auto, eco).
- Monitor current room temperature.
- Receive notifications and alerts.

## 3. RF433 Wireless Communication

The thermostat and receiver communicate wirelessly using RF433 technology, ensuring reliable and accurate temperature control without the need for direct wiring between the two units. This allows for flexible placement of the

thermostat unit within range of the receiver.



Image: A diagram illustrating the physical dimensions of both the wireless thermostat unit and its square receiver unit, providing measurements in centimeters and inches.

MAINTENANCE

To ensure optimal performance and longevity of your thermostat, follow these simple maintenance guidelines:

- **Cleaning:** Wipe the thermostat's screen and body with a soft, dry cloth. Avoid using abrasive cleaners, solvents, or chemical sprays, as these can damage the surface or internal components.
- **Placement:** Ensure the thermostat is placed in an area free from direct sunlight, drafts, or heat sources that could affect its temperature readings.
- **Firmware Updates:** Periodically check the Tuya app for any available firmware updates for your thermostat. Keeping the firmware updated can improve performance and add new features.

TROUBLESHOOTING

| Problem                     | Possible Cause                                      | Solution   |
|-----------------------------|---|--|
| Thermostat not powering on. | No power supply to the thermostat unit or receiver. | Check power connections for both units. Ensure the power adapter is securely plugged in. |

| Problem                             | Possible Cause   | Solution  |
|-------------------------------------|--|---|
| Cannot connect to Wi-Fi.            | Incorrect Wi-Fi password, 5GHz network, or thermostat not in pairing mode. | Ensure you are using a 2.4GHz Wi-Fi network. Double-check the Wi-Fi password. Press and hold the Wi-Fi button on the thermostat for 5 seconds until the indicator flashes slowly.   |
| Thermostat not controlling heating. | Receiver not wired correctly, out of RF433 range, or communication issue.  | Verify receiver wiring to the boiler. Ensure thermostat and receiver are within effective RF433 range. Re-pair the thermostat with the receiver if necessary (refer to specific pairing instructions in the full manual). |
| Inaccurate temperature readings.    | Thermostat placed near heat sources, drafts, or direct sunlight.           | Relocate the thermostat to a central area away from external influences that could skew readings.   |

SPECIFICATIONS

| Feature                  | Detail                         |
|--------------------------|--------------------------------|
| Product Dimensions       | 21.5 x 10 x 7 cm               |
| Item Weight              | 457 Grams                      |
| Batteries Required       | No                             |
| Included Components      | Thermostat                     |
| ASIN                     | B0DL5RCR1V                     |
| Item Model Number        | 42796J6SKE1NBFP28UW87Q459E795W |
| First Available Date     | October 28, 2024               |
| Brand                    | RANRAO                         |
| Controller Type          | Touchscreen, Smartphone App    |
| Color                    | As pictured                    |
| Temperature Control Type | Smart/Remote                   |
| Connectivity Technology  | Wi-Fi                          |
| Power Source             | 95-245VAC                      |
| Shape                    | Round                          |
| Display Type             | LCD Touch Screen               |

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your product or contact RANRAO customer service. Keep your purchase receipt as proof of purchase for warranty claims.

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For further assistance, please visit the official RANRAO website or contact customer support.