

AC221 Split AC Control for Ceiling Unit

Quick Start Guide

Safety Handling

WARNING: Failure to follow these safety notices could result in fire, electric shock, other injuries, or damage to the Split AC Control and other property. Read all the safety notices below before using the Split AC Control.

- Avoid high humidity or extreme temperatures.
- Avoid long exposure to direct sunlight or strong ultraviolet light.
- Do not drop or expose the unit to intense vibration.
- Do not disassemble or try to repair the unit on your own.
- Do not expose the unit or its accessories to flammable liquids, gases or other explosives.

Technical Specifications

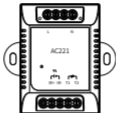
Wireless Connectivity

ZigBee	<ul style="list-style-type: none">• 2.4GHz IEEE 802.15.4
ZigBee Profile	<ul style="list-style-type: none">• ZigBee HA 1.2
RF Characteristics	<ul style="list-style-type: none">• Operating frequency: 2.4GHz• Range outdoor/indoor: 100m / 30m (Open area)• Internal PCB Antenna• TX Power: 8 DB

Physical Specifications

Operating Voltage	<ul style="list-style-type: none">• 100~240 Vac 50/60 Hz
Power consumption	<ul style="list-style-type: none">• < 1 W
Temperature	<ul style="list-style-type: none">• Remote probe Sensing Range: -30~100° C Sensing Accuracy: $\pm 1^{\circ}$ C
Operating environment	<ul style="list-style-type: none">• Temperature: -10 C ~ +55 C• Humidity: $\leq 90\%$ non-condensing
Dimensions	<ul style="list-style-type: none">• 64 (L) x 45(W) x 15(H) mm• Line length of temperature probe/ external infrared transmitter: 2.5m
Mounting Type	<ul style="list-style-type: none">• Wall mounting

1 Welcome



The AC221 is a split A/C controller. You can fix it in the ceiling or in the corner. It can convert the ZigBee signal of the gateway into IR command through an external infrared transmitter to control the air conditioner. It can also measure the environmental temperature through a temperature remote probe.

This guide will provide you with an overview of the product and help you get through the initial setup.

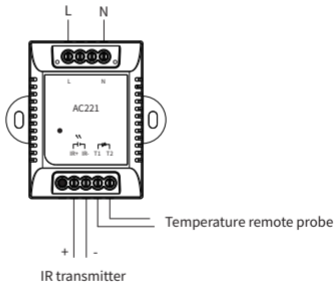
Features:

- ZigBee HA 1.2 compliant
- Works with Split A/Cs
- Convert the ZigBee signal of the gateway into IR command
- Pre-installed IR code for main stream split air conditioners
- Temperature remote probe for temperature measuring
- External infrared transmitter
- One-click quick pairing
- Scan or manually enter the AC brand code

2 Installation

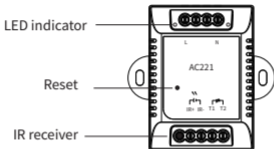
Please refer to the installation diagram below to install the split A/C controller. You can fix it in the ceiling or in the corner, then face the IR transmitter to your air conditioner and place the temperature remote probe on the object you would like to measure.

Please make sure the main power in your facility is off before installing.



Wiring diagram

3 Get to know your device



Reset button

Reset: Press and hold the reset button for 10 seconds until the LED indicator flashes green for 3 times. The indicator will keep flashing red when the device is returned to the default factory setting.

LED indicator

The LED status gives the following information:

LED status	What it means
Green LED steady	Device has joined a ZigBee network.
Red LED flashing	Device has not joined a ZigBee network.
Green LED flashing	Send IR command successfully

4 Configure Network

4.1 To get started, you will need:

- A Zigbee Gateway.
- A mobile phone with a mobile APP installed.

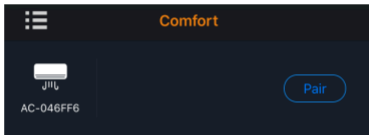
4.2 Adding to the gateway's network

1. Set your gateway to permit joining (see your gateway's manual).
2. Power on the AC221 and make sure the LED indicator is flashing red (If not, reset it to factory defaults).
3. Make sure the AC221 is in the range of gateway's network. After a few seconds the the AC221 will join the gateway automatically and the LED indicator will become green steady when successfully joined.
4. Now you are able to pair the AC221 to your air conditioner by using the mobile app.

Note: If the adding is failed, simply reset the AC221 and retry.

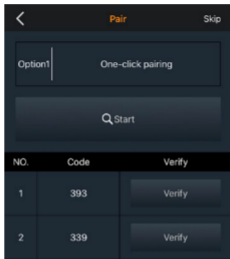
5 Pairing

Go to the comfort page. Tap **"Pair"** to get into 3 pairing methods. You can switch the pairing methods by clicking the **'skip'** button on the top right.



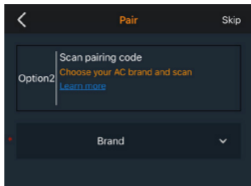
• One-click pairing

1. Tap "Start", then point your remote control close to the IR receiver of AC221 and press the On/Off on your remote control.
2. It will display some similar infrared codes on the App if the AC221 receives the code.
3. Select one code to verify to fully control your A/C.
4. If your AC respond with a sound "Beep", it means the code is matched (If not, you can verify other code in sequence)
5. Tap "save", then you can control your AC by mobile phone later.



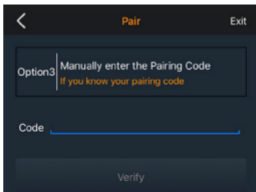
• Scan pairing code

1. Choose the brand of your air conditioner. Then tap "SCAN".
2. If you hear the A/C responding with a beep, click "Stop" and then verify the code to fully control your A/C.
3. If you miss the pairing code, press the previous or next button to switch and then verify it.
4. Save the code if you can fully control your A/C.



Manually enter the Pairing Code

1. If you know your pairing code, tap "skip" to enter the Pairing Code manually.



2. Tap "Verify" to fully control your AC, if your AC response with a sound "Beep", it means the code is matched. Save it, then you can control AC by your phone later.