# SRW02 SERIES WIRELESS CONTROL UNIT

## DESCRIPTION

SRW02 series wireless control unit is used in central heat/cool air conditioning system. According detecting and comparing the set temperature and ambient temperature, the thermostat controls the active of heat/cool zone valve in central air-conditioner.

There are several control types: on/off spring return type, electric on/off type, floating (PID adjusting) type, voltage modulating (PID adjusting) type, and floating/voltage modulating type. The electric on/off type and the floating (PID adjusting) type thermostats can supply a signal to reposition the zone valve when the power is turned on or cut off.



FIG.1 THERMOSTAT (REMOTE)

## CHARACTERISTICS

- The thermostat (remote) and the actuator (receiver) are relatively independent; and they communicate by radio wave.
- Overtime output signal will be cut off by overtime protection (Only for electric on/off type and floating type)
- Return function when power is on or shut off (Only for electric on/off type and floating type)
- Super low power consumption and status memory of last operation.
- Protection for instantaneous impulse and current surge.
- Display ambient temperature, fan speed, mode.
- Easy to install and get wiring.
- The thermostat can be wall mounted or used as a remote.
- Batteries inside have one year's normal useful life.
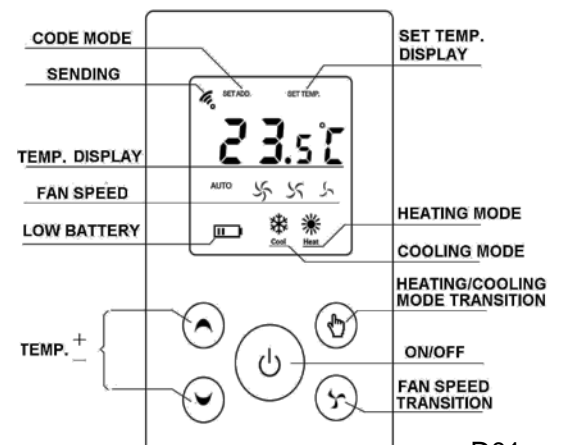- PC＋ABS plastic housing, apply to UL94V-0.



FIG.2 ACTUATOR (RECEIVER)

## TECHNICAL DATA

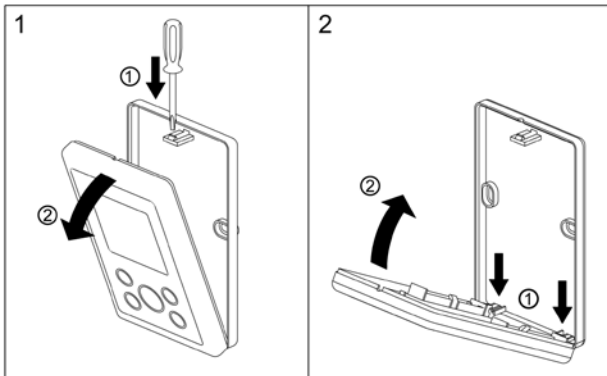| THERMOSTAT (REMOTE) | | ACTUATOR (RECEIVER) | |
|---|---|---|---|
| POWER SUPPLY | 3Vdc (2 × AAA batteries) | POWER SUPPLY | AC220V/230V   50/60Hz |
| POWER CONSUMPTION | Standby mode<0.18mW | POWER CONSUMPTION | 2.5VA (unloaded) |
| TRANSMITTING FREQUENCY | 315MHz | RECEIVING FREQUENCY | 315MHz |
| TRANSMITTING POWER | 10mW | RECEIVING PRECISION | Better than -98dB |
| ADJUSTING MODE | ASK | CONTROL PRECISION | ±0.5    ℃/出 |
| ANTENNA | Internal antenna | OUTPUT ( THERMOSTAT) | AC220V/230V    1(1)A |
| DISPLAY PRECISION | 0.2    ℃/0.5 | OUTPUT (FAN) | AC220V/230V    2(1)A |
| TEMP. CONTROL RANGE | 10~30   ℃/86℉ | RETURN TIME | 120s or 300s (made by order) |
| TEMP. DISPLAY RANGE | 0～40   ℃/32℉ | OVERTIME PROTECTION | 120s or 300s (made by order) |
| EFFECTIVE DISTANCE | Less than 10m (without hindrance) | | |
| AMBIENT TEMP. | 0 ~ 55   ℃ | | |
| STORAGE TEMP. | -10 ~ 60   ℃ | | |
| AMBIENT HUMIDITY | Max. 90%RH non-condensation | | |

## APPLICATION

1. **On/off:** The thermostat will go through self-test status and turn on after the batteries are installed. The ON/OFF mode switched after every effective press on button "⏻". All LCD display will be turn off after power is off.

2. **Temp. setting:** Press and release button "⌃" or "⌄", the set temp. will increase or reduce 0.2   ℃/0.5℉ every press. If press the buttons continuously, the set temp. will keep increasing or reducing by 0.2   ℃/0.5℉. Release the button when it
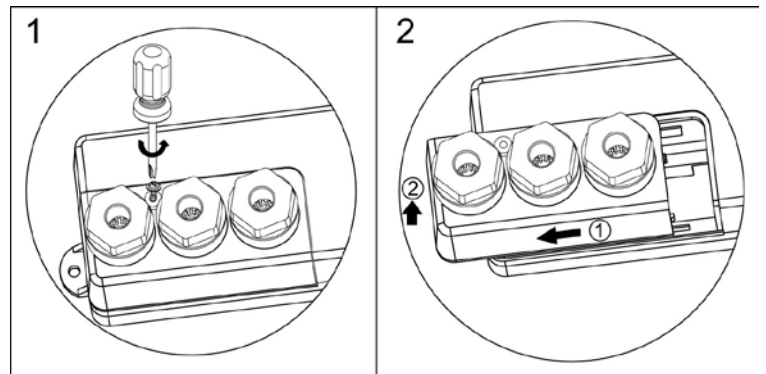


D01

gets ideal. The symbol "SET TEMP." will be displayed during the setting. When the symbol "📶" shown, it means the order has been sent.

3. **Fan speed setting:** There are four working states: "AUTO", "🌀", "🌀" or "🌀".

4. **Heating/cooling mode switch:** The states will be switched with every effective press. When the symbol "📶" shown, it means the order has been sent.

5. **Code:** If different remotes are mixed up, they need to be coded again. The steps are as follow:

5.1. The actuator (receiver) will go though self-test status (about 10 seconds) and sound "Beep" after power is on, and then it stays in Standby mode. Press the Code Button (a little hole) or use the special code matcher, and the actuator will start sounding in every 5 seconds (lasts about 15 minutes). It means the actuator is in code mode. The code mode will be end after a successful code match.

5.2. Turn on the thermostat, after it finished self-check status, press and release the Code Button on the back side of the actuator (use something thin but firm, like iron wire), the symbol "SET ADD." will be shown. If the symbol "📶" shown means the code order has been sent. If the actuator (receiver) sounds a long "Beep", it means the code has been successful set.

6. **Receiver:** When the receiver get signal from the remote, it sounds "Beep" for noticing. If the current signal is the same as former one, the receiver won't sound. The remote will send one action signal for four times in a short period to avoid signal receival failure.

7. **Installation:** The installation of receiver and remote should avoid metal things, in case they affect radio transmission. The straight distance between remote and receiver should be kept in 10 meters.

8. **Notice:** If the unit will not be used for a long time, please remove the batteries in the thermostat (remote) and cut off power supply of actuator (receiver) to prolong the useful life and prevent battery leakage.
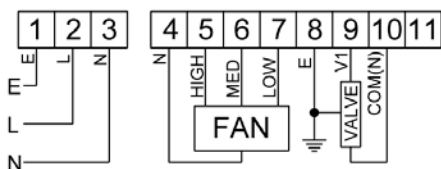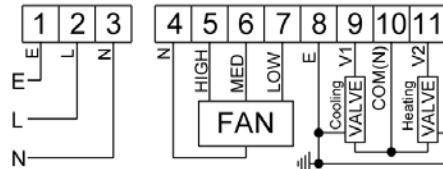
## ASSEMBLY/DISASSEMBLY



## MODEL SELECTION



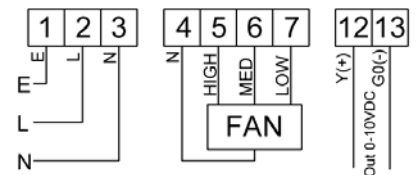## WIRING DIAGRAM OF ACTUATOR (RECEIVER)
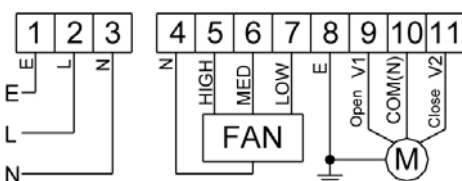
SRW02A、SRW02B WIRING



SRW02C WIRING



SRW02PWIRING
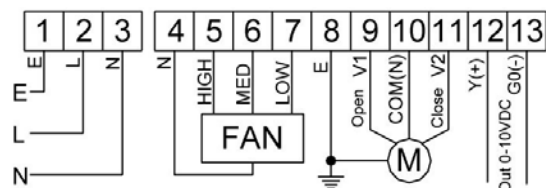


SRW02D、SRW02F WIRING



SRW02U WIRING



The code has been matched before leave factory.