



The ZWTCO2 series of Wireless Controller comes in a set consisting of a remote handheld battery operated Transmitter and a line voltage Receiver. The wireless remote Transmitter and Receiver are paired devices with both sharing the same transmitting and receiving radio frequency. Both devices are tagged with the same serial number.



Each wireless remote Transmitter has its own unique preset transmitting frequency. The Receiver can be programmed to match any one wireless remote Transmitter. That is to say one wireless remote Transmitter can control a group of Receivers. (The pairing of Transmitter & Receiver are described elsewhere in this manual).

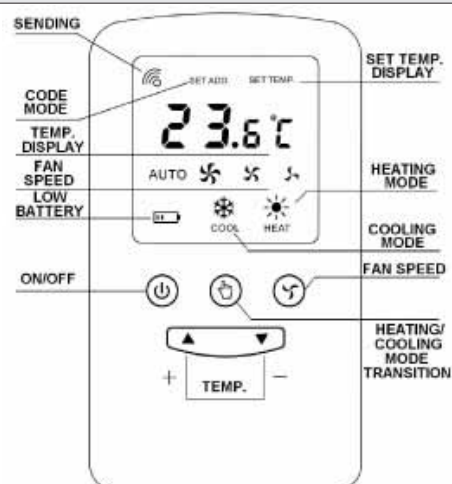
The line voltage Receiver comes in five (5) basic models. Types "A & B" for on/off Heating or Cooling applications; Type "C" for Heating & Cooling on/off 4-pipe applications; Types "D & F" for floating 3-position applications; Type "P" for proportional (PI) 0-10 VDC application and type "U" for Floating & Proportional outputs applications.

Note:-The Remote Transmitter display temperature acts as a room thermometer and does not influence the controller function.


- Very low power consumption
- Non-volatile memory
- Current surge protection
- Large LCD with action displays
- Wireless Remote Transmitter can be wall mounted
- Long battery life
- All plastic casings comply to UL94V-O

Function

1. Each time the batteries are inserted into the Remote Transmitter, the displays will be turned on and the unit will go through a self-test function.
2. When the on/off mode button is depressed, all displays will be turned ON or OFF.
3. Temperature setting: With each press of the ▲ or ▼ button, the set temperature will increase/decrease by 0.2 °C. The symbol "set temp" will be displayed during the setting. When the symbol  appears, it means the command is sent to the Receiver.
4. Each time a "command" is given and sent from the remote Transmitter, the Receiver will respond with an audible "beep".
5. Fan Speed Setting: By pressing button , the display



switches to "AUTO" meaning that the fan speed will be automatically changed with a one degree differential between set point and sensed temperature. When the sensed temperature is equal to the set temperature, the fan speed will automatically switch to LOW speed. The other three symbols will show High, Medium & Low fan speed when in manual mode.

6. The button  is used to switch between "Heating" & "Cooling" modes.
7. As in most radio frequency devices, please avoid putting the Transmitter or Receiver in metal cubicles that may affect its transmitting or receiving range.
8. When the Transmitter is not used for a long time, the batteries should be removed to prevent battery leakage.

Pairing of Programming of Transmitter/Receiver

- a) The Receiver, when powered up, will go through a self-test after approximately 10 seconds and will then turn on to standby mode. Press the black "SET ADD" button on the receiver and a "beep" sound will occur every 5 seconds and will last about 15 minutes.
- b) Turn on the Remote Transmitter.
- c) Use a small pin to push a switch through a small hole at the back of the Remote Transmitter marked "SET ADD". The command will then be sent to the Receiver.
- d) The Receiver will respond with a long "beep" indicating that the code pairing is successful.
- e) The Transmitter and Receiver are now paired and will work normally.

Technical Data

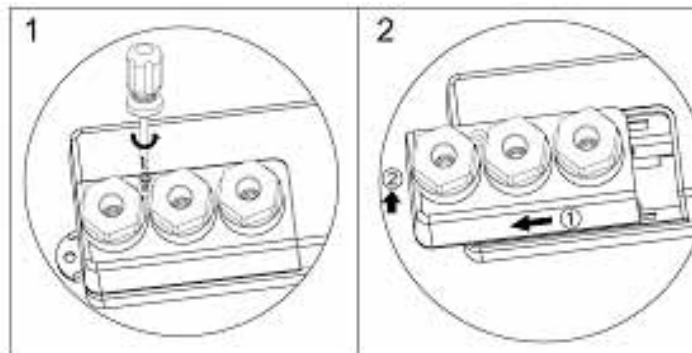
Remote Transmitter

Power Supply	3Vdc (2 × AAA batteries)
Power Consumption	Standby mode<0.18mW
Transmitting Frequency	315MHz
Transmitting Power	10mW
Antenna	Internal antenna
Display Precision	0.2°C
Setpoint Range	10-30°C
Temp Display Range	0-40°C
Effective Distance	Less than 10m (without hindrance)

Receiver

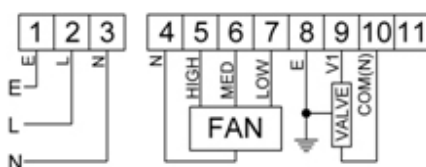
Power Supply	AC220V/230V	50/60Hz
Power Consumption	2.5VA (unloaded)	
Receiving Frequency	315MHz	
Receiving Precision	Better than -98dB	
Control Precision	0.5°C	
Output Thermostat	AC220V/230V	1(1)A
Output Fan	AC220V/230V	2(1)A
Return Time	120s or 300s (made by order)	
Overtime Protection	120s or 300s (made by order)	

Installation Diagram



Model Selection/Wiring Diagram

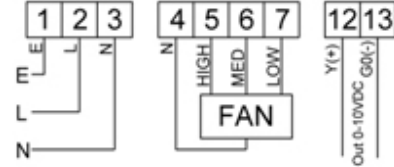
ZWTCO2-A, ZWTCO2-B wirings



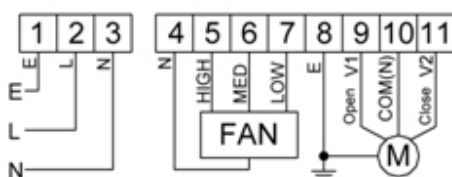
ZWTCO2-C wiring



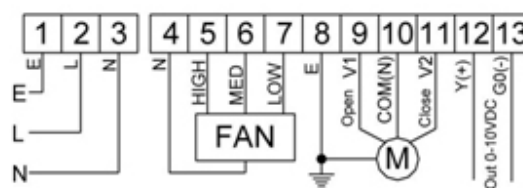
ZWTCO2-P wiring



ZWTCO2-D, ZWTCO2-F wirings



ZWTCO2-U wiring



All Transmitters/Receivers are matched in the factory