

CC816-RF (ES) WIRELESS THERMOSTAT

Installation and operation instructions

CC816-RF(ES) is a non-programmable wireless thermostat, It is can replaced most common residential thermostat and designed to be used with electric, gas ,water radiant or oil heating control system or cooling system.

Unlike ordinary single unit design thermostat, this unit is a new type of thermostat separating the thermostat function into two units. Receiver scket and Control Centre CC816-Tr. The Control Centre serves as user interface and temperature sensing/control. User can put the control Centre nearby and can read/control the temperature of really the living area while put the Receiver besides the heating or cooling system. The unit is linked by RF.

SPECIFICATION

Power source.....	Control Centre 2 AA batteries Receiver 230VAC±10% 50/60HZ
Frequency band.....	433 MHZ
Room temperature setting range.....	5°C~30°C (41°F ~86°F)
Ambient temperature-operation.....	0°C(32°F)~+50°C(122°F)
Ambient temperature-transport.....	-10°C(14°F)~+60 °C(140°F)
Accuracy.....	±1 °C or ±1 °F
Dimensions.....	Control Centre 86mm×86mm×32mm Receiver 126mm×68mm×47mm

FEATURE

- LCD display shows room temperature
- Optional economic operation or comfort operation
- Optional temperature display of Celsius or Fahrenheit scale

INSTALL THE CONTROL CENTRE

1. Remove assembly screws from the base of thermostat. Gently pull the upper housing straight off the base. Forcing or prying on the thermostat will cause damage to the unit. See figure 1.
2. Install two fresh “AA” alkaline batteries in battery compartment. Be sure to match positive (+) ends of batteries with positive (+) battery terminals in the battery compartment. See figure 2. (Note: the product long time not use it, please detach the battery, prevent the battery fluid leakage, damaged products.)
3. Push power base into wall.
4. Using mounting screws mount the power base to the wall. Place a level against bottom of base, adjust until level, and then tighten screws. (Leveling is for appearance only and will not affect thermostat operation.)
5. Replace the upper housing on the base and fix the upper housing by removed assembly screw

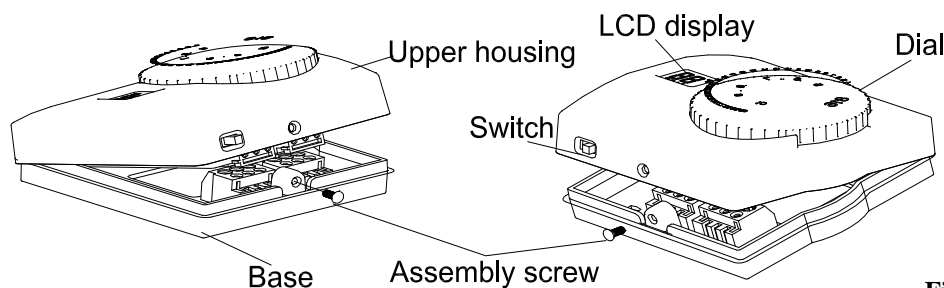


Figure 1

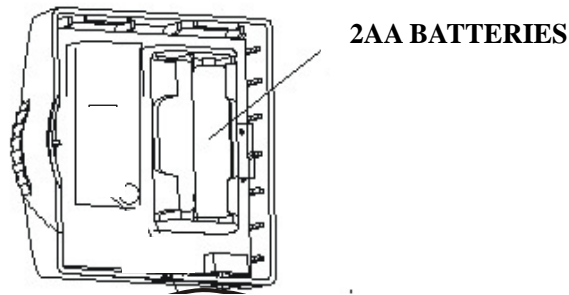


Figure 2

SWITCH AND LED DESCRIPTION OF RECEIVER

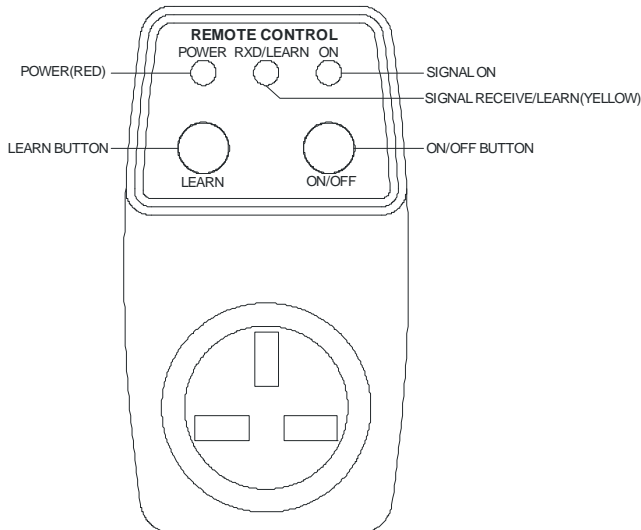


Figure 3

Special feature

Intelligent Recovery: See configuration menu item 6- Intelligent Recovery operation.

SELF CHECK FUNCTION :IF THE RECEIVER DID NOT RECEIVE THE SIGNAL FROM THE TRANSMITTER FOR ONE HOUR, THE RECEIVER WILL POWER ON THE HEATER BOILER. AND AFTER 24 HOURS , THE RECEIVER STILL NOT RECEIVING THE SINAL . ITS YELLOW LIGHT WILL FLASH ALARM THAT THERE MAYBE SOMETHING WRONG WITH THE THERMOSTAT. IF THERE IS A SIGNAL CONTACT. THEN THE YELLOW LIGHT STOP FLASHING. AND THE THERMOSTAT WILL RUN AS THE SCHEDULE SETTING.

Wireless signal confirm

- 1) Plug the power switch with 230VAC power, Then the power light will be on(Red).
- 2) Long press the button LEARN,the light RXD/LEARN will on (Yellow) .
- 3) Then load the 2 AA battery into the transmitter . After five sec . Then the yellow light will flash in several seconds. When it going out. It states the wireless control between thermostat and the power switch established.
- 4) Then roll the knob of the transmitter , make the setting temp > room temp , then the heating icon will display in the LCD , please check if the receiver plug light change to green . If it is , the communication beteen the transmitter and the receiver plug is working .

CONFIGURATION DIL SWITCH SETTINGS

Slide the DIL switches to the settings required (see Figure 4)

Heating selection

Cooling selection



Figure 4

Both heating and cooling selection

Select °C and °F readout


Set the switch to °C, temperature in the display will be shown in °C readout.



Set the switch to °F, temperature in the display will be shown in °F readout.



Switch function option



ON/OFF – Switch at the lower side of the thermostat used as ON/OFF switch

Setting the switch at  thermostat is switched on. Indicating “ON”

Setting the switch at  thermostat is switched off. Indicating “OFF”.

NSB – Switch at the lower side of the thermostat used as NSB switch, as dial   .

Setting the switch at  thermostat is on comfort mode. Indicating “Sun Symbol” 

Setting the switch at  thermostat is on Night set back mode. Indicating “Moon Symbol” 

Compressor delay option for cooling selection

Setting the Dil switch at NO DELAY, compressor delay function is canceled.

Setting the Dil switch at 5 MIN DELAY, compressor will have 5 minutes off-time protection.

USERS INSTRUCTIONS

Display

The LCD displays actual room temperature until the setting dial is moved.

Setting the temperature

Turn setting dial to required temperature. The selected temperature will **flash** in the LCD to signify it is showing the **set temperature**

After a short period the display stops flashing and shows **actual room temperature**.


Thermostat status (heat mode only)

A flame symbol will be lit whenever the thermostat is calling for heat.

Thermostat status (cool mode only)

A snowflake symbol will be lit whenever the thermostat is calling for cooling. If this is seen to flash, the thermostat output is delayed for a short period to prevent compressor damage.

Low battery indication


A battery symbol will flash in the display when batteries require replacement.  Batteries should be replaced within 15 days, after which the thermostat will turn off the load it is controlling. When this happens “OF” will be displayed.



ON OFF Switch function

The function of the switch at the lower side of the thermostat has 2 options. You can select the option by setting the second dip in the dip group. See DIL switch setting.

NSB setting

This switch is used as  switch.

When the switch is set to the “Sun Symbol”, the thermostat controls at the temperature set by the setting dial.

When set to the “Moon symbol”, the thermostat controls at 4°C below the temperature set by the setting dial.

Note: if used to control cooling, thermostat controls 4°C higher, with switch in Moon position

ON/OFF setting

The switch is used as ON/OFF control

When the switch is set to the “ON”, the thermostat controls at the temperature set by the setting dial.

When set to the “OFF”, the thermostat output is turned off and “OF” is display.

Error Code

E1 flashing in the display: Room sensor short circuit. Thermostat shut down all output

E2 flashing in the display: Room sensor broken. Thermostat shut down all output.

Temperature alarm

If the room temperature is higher than 30°C. **HI** will be displayed. In cooling mode, the heating should start working; In heating mode, the heating should stop working.

If the room temperature is lower than 5°C. **LO** will be displayed. In cooling mode, the heating should stop working; In heating mode, the heating should start working.