

C7 Wireless Programmable Thermostat Instruction



Description

The wireless digital thermostat is ideal to control the temperature of any room (bedroom, kitchen, etc.) and is very easy to use. Allows for the operation of heating / cooling equipment, when the temperature of the environment to be monitored is lower/higher than a user-preset reference temperature. Very easy installation according to the step by step manual instruction. Mounting and connection can be made either by a technician or any other person.

IMPORTANT: carefully read the manual of use before the installation and follow the precautions when using the product.

Precautions on battery use

- Use only batteries of indicated size and voltage.
- Make sure you plug the batteries observing the correct polarity as indicated in the battery compartment. Battery connection with incorrect polarity may damage the thermostat.
- Do not mix different types of batteries such as an alkaline and a zinc carbon, or old batteries with new batteries.
- If you expect not to use the thermostat for a long period, disconnect it from the equipment and remove the batteries to prevent damage resulting from possible battery leakage.

Precautions on installation and use of the thermostat

- The wireless digital thermostat is exclusively for indoor use (closed rooms, garages, porches etc.). Do not install outdoor or in locations directly exposed to rain.
- Do not install in places with high humidity.
- The thermostat can operate one device only. The connection of several equipment in cascade or in series (for example, a heater and a fan) does not guarantee the correct functioning of the device.
- Cut off mains power before connecting any device.
- Use the utmost caution when making wirings for connection with equipment and electricity mains: a wrong connection or unreliable shielding of electrical cables may cause damage to the device and jeopardize your safety.

Note: the manufacturer waives any responsibility for damage caused by improper installation or use of the device other than described in this manual.

Specification

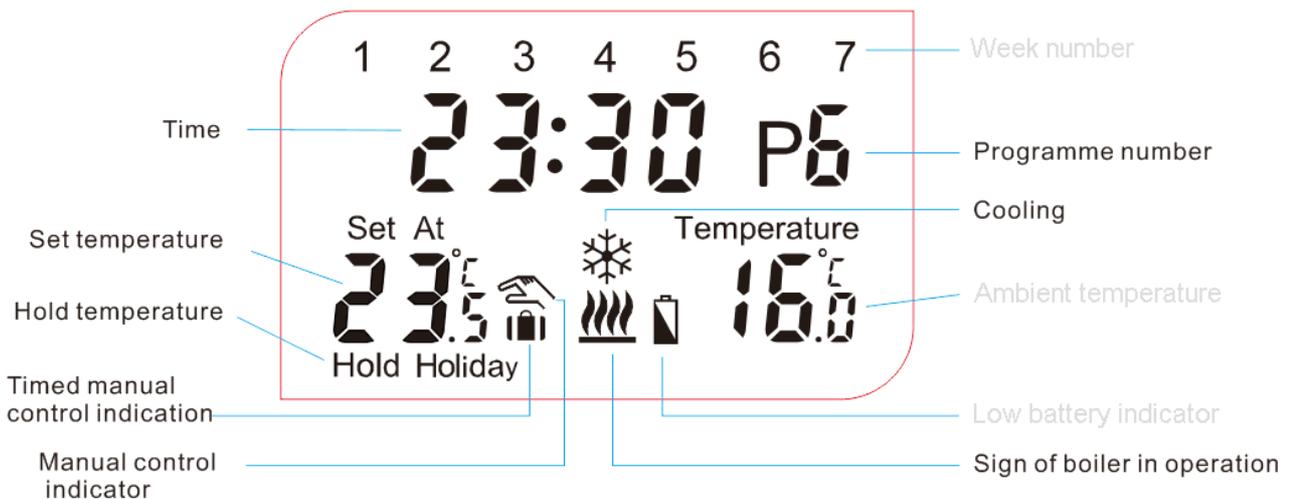
Transmitter (thermostat):

1. Programmability: 7 Day Programmable
2. Display Temperature Range: 0°C~40°C (in 0.1°C increments)
3. Adjustable Temperature Range: 5°C~35°C (in 0.5°C increments)
4. Temperature measurement accuracy: $\pm 1^\circ\text{C}$ (at 20°C)
5. Power Supply: DC 2x AAA 1.5V Alkaline Batteries (not provided)
6. Load Rating: 6(2)A, 230V
7. Low Battery Indicator: Display “” when battery is less than 2.7V (replace)
8. Standby current: 17uA, Lighting current $\leq 4.2\text{mA}$
9. Backlight colour: Orange / Blue / White
10. Dimensions: 119 x 80 x 26 mm (without holder)

Receiver:

1. Power Supply: 230VAC, 50HZ
2. Operating Frequency: 868.35MHZ
3. Transmission Distance: approx. 100m in open terrain
4. Consumption: 6W
5. Maximum Load: 6(2)A, 230V
6. Dimensions: 86 x 86 x 26 mm

LCD Display



Running Mode

HEAT (Heating) / COOL (Cooling)

Switch by hold MODE button for 5 secs and use + and - to choose the running mode, then confirm by press SET.

How to set the time

1. Press DAY once until the week symbol is flashing, use + or - to adjust from 1~7.
2. Press DAY once until the hour symbol is flashing, use + or - to adjust from 0~23.
3. Press DAY once until the minute symbol is flashing, use + or - to adjust from 0~59.
4. Press SET to confirm changes or wait for 15 secs to automatically confirm and return to the Run Mode.

How to set the program

1. Hold SET then press PROG until the week symbol is flashing (1,2,3,4,5,6,7).
2. Press + or - to select the setting week in "1 2 3 4 5" or "6 7" (5/2 day mode), "1,2,3,4,5,6,7"(7 day mode), "1 2 3 4 5 6 7"(24 hour mode).
3. Press PROG once, display P1 and the time will flash, use + or - to adjust the first time to required setting (in 10 minutes increments).
4. Press PROG once and the temperature will flash, use + or - to adjust the temperature (in 0.5°C increments).
5. Press DAY once to display "--:--" if you do not want to run this program.
6. Repeat steps 3 to 4 above until all 6 time and temperature settings above have been set for Monday (the week choosed).
7. Once Monday's time and temperature have been adjusted to desired settings and 1(Monday) is flashing, press PROG again to repeat steps 2 to 4 until all 7 days of the week have been set to desired times and temperatures.
8. When all 7 days, time and temperature have been set to desired settings, press SET to confirm settings or wait for 15 secs to automatically confirm and return the programmer Run Mode.
9. Press PROG to view the programming setting parameters under normal running status, use + or - to view different weeks.
10. The factory pre-set settings:

Week 1~Week 7:

P1: 7: 00 20°C P2: 9: 00 17°C P3: 12: 30 20°C
P4: 15: 00 19°C P5: 17: 30 22°C P6: 23: 00 17°C

How to copy program

1. Hold COPY under main program mode for 3 secs until the COPY symbol display, the week 1 will flashing
2. Press + or - to choose the week you wish to copy
3. Press COPY again and the above selected week stops flashing, then press + or - to arrive at the day that you want to copy to.
4. Then press COPY again to confirm and the changes will be immediately made.
5. Repeat steps 3 to 4 above to copy on different program
6. Press SET to lock in the changes or wait for 15 secs to time out.

How to set the temperature by manually

1. Hold "HOLD" once until the HOLD symbol display, press + or - to set temperature, this settings will running until pressed by SET to quit.
2. Hold "HOLD" under main program mode for 3 secs until display d:01 and HOLIDAY symbol, press + or - to adjust from d:01~d:99, set and waiting for 15 secs to automatically confirm; Then press + or - again to set the desired temperature. This setting temperature will running out the setting days to quit or press SET to quit.
3. Press + or - to adjust the setting temperature, then press DAY to lock mode to lock the hours, press + or - to choose the lock hours from 1~9 hrs. Waiting for 15 secs to automatically confirm; This setting temperature will running out the setting hours to quit or press SET to quit.
4. Press + or - to adjust the setting temperature, waiting for 15 secs to automatically confirm; This setting temperature will running until the next PROG or press SET to quit.
5. Hold SET then press + or - to set the Comfort temperature mode / Economy temperature mode:
 - **Set the Comfort temperature:** Hold SET then press + to flash the temperature, press + or - to set the comfort temperature, then press SET to confirm or wait for 15 secs to automatically confirm.
 - **Set the Economy temperature:** Hold SET then press - to flash the temperature, press + or - to set the economy temperature, then press SET to confirm or wait for 15 secs to automatically confirm.

How to set the technical setting

Press and hold SET and then press MODE to enter the technical setting interface, press MODE to choose between different mode:

S: Press + or - to choose the swing value from 0.2~2.0

CAL: -3.0~+3.0 (calibration)

CAL: calibrate the temperature from -3.0~+3.0 by press + or -

HP:ON/OFF (No this function under COOL mode)

It is the Heat Pump switch, if there is no heating within 24 hrs, the thermostat will turn on the heating for 1 minute at the time of noon 12:00.

Backlight

Press LIGHT, the backlight will be light on and turns off when there is no activity after 15 seconds.

How to replace the batteries

The average battery life is 1 year, but the frequent use of the backlight can reduce this time considerably. If the icon  indicating low battery voltage appears on the display, the batteries must be replaced.

Lock Function

1. Hold "LOCK" for 5 secs until the LCD screen display "LOC" for 5 secs and constantly display  symbol,

then all the buttons is locked now.

2. Hold "LOCK" for 5 secs again, LCD screen will display "ULOC" and  symbol disappear, then all the buttons is unlocked and can be normal used.

Restoring thermostat to factory default

1. Remove the back cover, press RESET of the back side to reset the thermostat (turn off then turn on the power, the settings won't be changed).
2. Press RESET on the front case for 3 secs to restore the factory default settings.

The Receiver

Installation and connection of receiver

The receiver must be mounted on the wall in a place protected against humidity and heat, close to the boiler.

ATTENTION! Do not install the receiving unit under the housing of the boiler or close to hot pipes because they may damage parts of the device or compromise wireless connection (radio-frequency). To avoid electric shock, have an expert connect the receiver to the boiler!

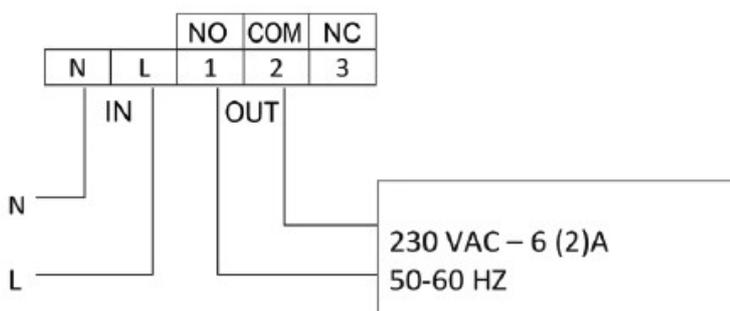
Unscrew the two screws at the base of the receiver unit without removing them. Then remove the receiver unit's front panel and then secure the back panel to the wall close to the boiler with the screws provided.

230V mains voltage should be supplied to the receiving unit. This provides power to the device, but this voltage does not appear on terminals 1 and 2. We propose to connect the neutral network to point N, while the phase conductor to point L. We recommend to use a fork-type connection with switch for mains connection. Please turn off the device when not used (eg.summer).

The receiver unit controls the boiler or air conditioner through a zero potential relay whose connection points are: 1(NO), 2(COM) and 3(NC). Connect the two connection points of the heating or cooling system to be controlled to terminals No.1(NO) and No.2(COM), normally open terminals of the relay.

If you want to use an old boiler or any other device that has connection points for thermostats, then the 1(NO) and 2(COM) of the thermostat connection points must be connected to the device power cord, in the same way to connect a switch.

WARNING! Always consider the load capacity of the receiver and follow the instructions of the manufacturer of the heating or cooling equipment. The device must be installed and connected by a qualified professional!



The voltage at the terminals No.1 and No.2 depends only on the controller system, the wire size is determined by the type of device to be controlled. The thread length is not relevant, the receiver can be installed near the boiler or far from it, but not installed under the housing of the boiler.

If the distance between the transmitter and the receiver is too wide, it will make the wireless (radio frequency) connection unreliable. Install the receiver as close to the point of thermostat.

How to operate the receiver

Turn on the power of the receiver. After a few seconds, the wireless system (radio-frequency) (thermostat and receiver unit) turns to operating frequency. To test the system in the heating mode, press the thermostat button several times, until the set temperature is 2~3 °C higher than room temperature. Later, the icon indicating that the heating is turned on should appear on the thermostat display in a few seconds. At the same time, the red LED light on the receiver should turn on to indicate that the receiver has received the command transmitter (thermostat).

Otherwise the system should be rebooted. So, press the M/A button on the receiver and hold it down (for about 10 seconds) until the green LED starts flashing. Then press and hold SET and DAY on the transmitter for 10 seconds until the green LED on the receiver stops blinking and turns off, so that the receiver “recognizes” the transmitter code (thermostat). Then the thermostat is paired and the transmitter can control ON/OFF to the receiver now. The code will not be lost even in case of power failure, the device will automatically store.

Manual receiver control

Press the MANUAL button to separate to the thermostat from the receiver. In this case the boiler or the air conditioner connected to the receiver can be turned on or off manually without temperature control. Fixed green light indicates the MANUAL mode. Press the M/A button to activate or deactivate the boiler. (The red LED lights up when the boiler is on). Press the MANUAL button to stop manual control and resume automatic operation (thermostat-controlled) (the green LED turns off).

ON/OFF button on the receiver

O: OFF

When there is no need to use the thermostat, the users can just turn OFF (by the left side of the receiver) to power off the receiver and it does not need to remove the front case.

I: ON

The receiver is normal operating;

Notes:

When there is no need to use the thermostat for heating or cooling for some seasons, it is advised to turn off the receiver to protect the equipment and thermostat, and take out the batteries from the thermostat.

If there is need to start the heating or cooling, you can put in the batteries to the thermostat, turn on the switch on

the receiver, and then press MANUAL on the receiver to turn off the green lights, the receiver now is controlled by the transmitter (thermostat).