

RC-220M User Manual

1、 Display:

The default display temperature is for Sensor 1, when you Press “ ” button, which can switch to Sensor 2, thus you can see the temperature of Sensor 2, Press “ ” again or just no operating for several seconds, which will switch to the default display--Sensor 1.

2、 Parameter:

1) Under normal operating conditions, when you press “SET” button, the display will be the setting temperature for Sensor 1.

The default value is 28°C, Setting range: 0-40°C;

You can adjust the value by operating “UP” or “DOWN” buttons, if you want to adjust the value faster, you can press “UP” or “DOWN” buttons for several seconds. After the adjustment, you can press “RST” to save and exit, or just no operating for 15 seconds, it will save and exit automatically.

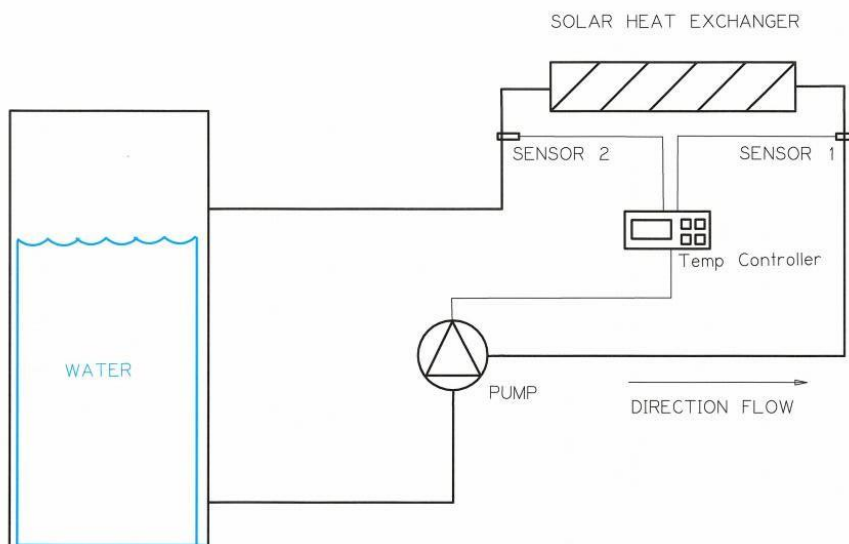
2) Under normal operating conditions, Press “SET” button for more than 3 seconds:

- i. When display F01: Test time (Default value is 3 minutes, Setting range: 1-5 minutes);
- ii. When display F01, Press “UP” button and you can see F02 (Cycle time: Default value is 60 minutes, Setting range: 15-120 minutes);

3) If you want to adjust one parameter, For example F01, when the screen displays F01, press “SET” button, then you can see the present value of F01, You can adjust the value by operating “UP” or “DOWN” buttons, or press “UP” or “DOWN” buttons for several seconds to adjust the value faster. After the adjustment, press “SET” button, then get back to the previous menu, which displays F01; You can also press “RST” to save and exit, or just no operating for 15 seconds, it will save and exit automatically.

3、 Main applications and logic:

- 1) The temperature controller starts the PUMP and when it is power on and the sensors are in right position, it will make a test run for 3 minutes (Default value), and it will make a test run of 3 minutes every 60 minutes (Default value) to check the availability of warm water in the SOLAR HEAT EXCHANGER.
- 2) If after this 3 minutes the temperature of SENSOR 2 is 1°C higher (or more) than SENSOR 1 the pump will continue working. The PUMP will keep on working until the target temperature is reached or until the difference in temperature between SENSOR 2 and SENSOR 1 is less than 1°C.
- 3) If after 3 minutes testing the temperature difference between SENSOR 2 and SENSOR 1 is less than 1°C the unit will stop the PUMP
- 4) Take the 60 minutes cycle time for example, When the 3 test minutes finished, the cycle time will be 60-3=57 minutes, that is to say, the next test time will start after 57 minutes when the last test finished



4、Wiring:

