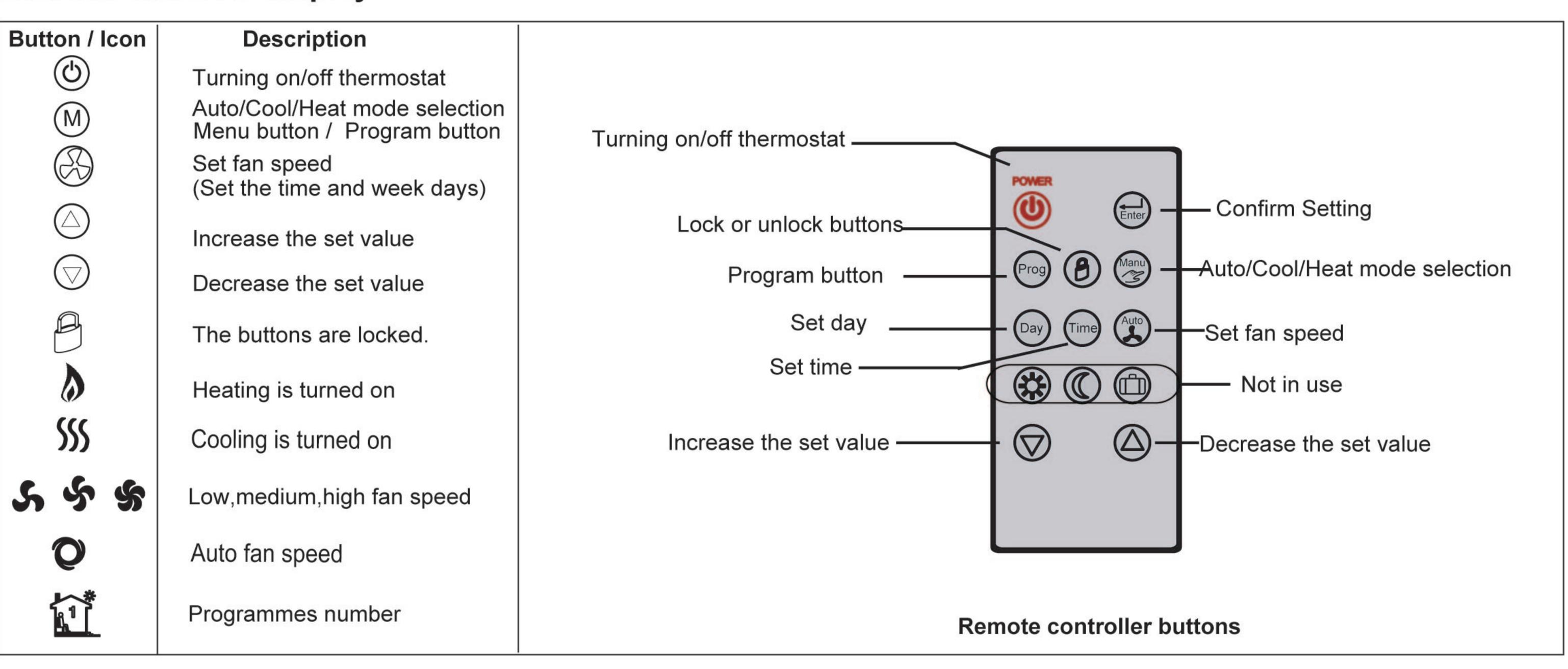
TR3100HC Thermostat Instructions (Part I)

Ver.1.0

Adjustment (press up or down button to adjust)

Buttons and LCD display



General Settings

Menu #

Features description

Press buttton (b) to Turn on/off the thermostat. When thermostat is turned off, the LCD will only display OFF. When the thermostat is turned off, press and hold button M for 3 seconds to bring up a configuration menu. In this mode, use button M to select different features' setting.

Features Explanation

1	Switching differential OC menu number	The numbers of degree difference before switching. The default is 1°C which means the thermostat will switch the heating on 0.5°C below the set temperature and will turn it off 0.5°C above the set temperature. With a 2°C differential, the heating will switch on 1°C below the set temperature and will switch off 1°C above the set temperature.	1°C(by default), 2 °C10°C
2	Temperature calibrated oc menu number	This is to calibrate room temperature if required.	-1°C = decrease 1 °C, 0°C= no calibrate, 1°C = increase 1 °C
3	temperature format menu number	This alows users to select between °C or °F.	C=°C F=°F
4	clock format menu number	12/24 HOUR clock format selection	24H = 24-hour clock format (by default) 12H = 12-hour clock format
5	fan mode 5 menu number	To select the fan mode, runs continuously or runs only when the cooling or heating system is on.	1= fan only runs when heating or cooling system is on(by default) 0= fan runs continuously



Please Note: one of the following error messages will appear if one of these problems occur:

- LO This error means that the room temperature is lower than 0 $^{\circ}$ C
- HI This error means that the room temperature is greater than 50° C

If the sensor is short-circuit or broken, the LCD will display "Err" and the thermostat will cut off output.



This product should be installed by a qualified electrician.

TR3100HC Thermostat Instructions (Part II)

Ver.1.0

Program your thermostat

This thermostat is pre-set to the following program settings.

		Heat(Mon-Fri)	Cool(Mon-Fri)	Heat(Sat-Sun)	Cool(Sat-Sun)
Wake (07:00)		22 °C	24 °C	22 °C	24 °C
leave (09:30)	2 Å.	16 °C	28 °C	16 °C	28 °C
return (16:30)		22 °C	24 °C	22 °C	24 °C
sleep (22:30)		16 °C	25 °C	16 °C	25 °C

To adjust these schedules, follow easy steps below,

1	Press M to select Heat mode. Then press and hold button M for 5 seconds to bring up weekday(Monday to Friday) programs.					
2	Now the time of the first set-point is flashing. Use button or to set the start time(default 07:00) (Hold button or to change by 15 minutes each time.)					
3	Press button M again and use button or to set the desired temperature to be maintained for program 1.(default 22 °C)					
4	Press button again to show set-point 2 (program 2). Use button or to set the start time. (default 9:30)					
5	Press button (M) again and use button (a) or (v) to set the desired temperature to be maintained for program 2.(default 16 °C)					
6	Press button again to show set-point 3 (program 3). Use button or to set the start time. (default 16:30)					
7	Press button (M) again and use button (a) or (b) to set the desired temperature to be maintained for program 3.(default 22 °C)					
8	Press button (M) again to show set-point 4 (program 4). Use button (a) or (b) to set the start time. (default 22:30)					
9	Press button (M) again and use button (a) or (v) to set the desired temperature to be maintained for program 4.(default 16 °C)					
10	Press button to move to the weekend settings. Repeat above steps 2 to 9,and then press to accept.					
Note: Press M to select Cool mode and repeat steps above to program your thermostat for the cool system.						
To erase program 2 and 3 for Saturday and Sunday,see below,						
In step 4, instead of using button 🔊 or 🗑 , using button 🚱 will erase the time.(:).						
In s	In step 6, instead of using button 🌘 or 🗑 , using button 🛞 will erase the time.(:).					

Installation Instructions

To cancel the setting, press (3) again.

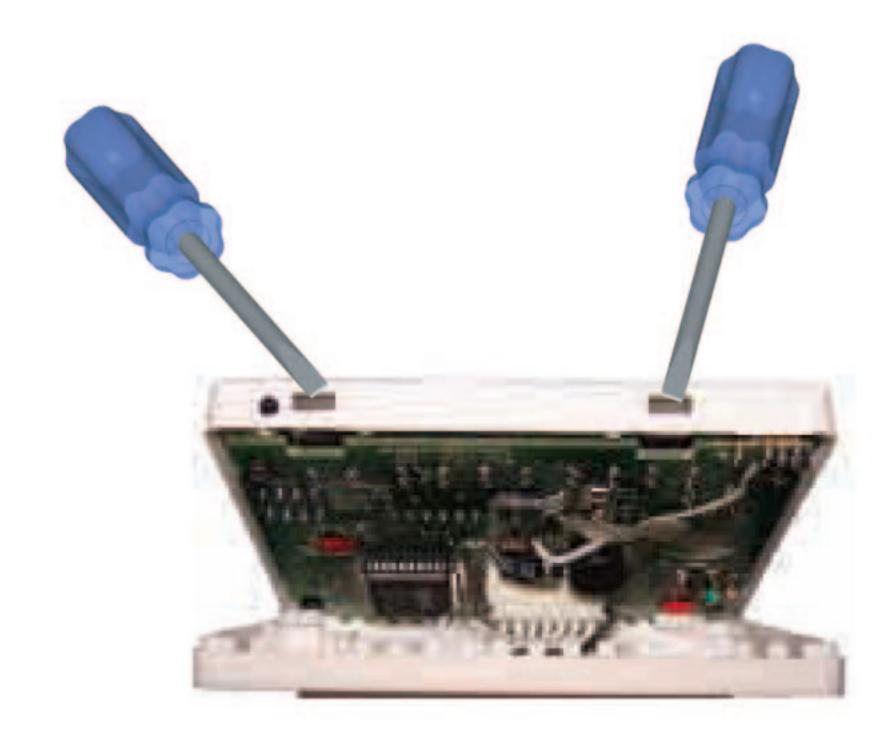
Carefully separate the front half of the thermostat from the back plate by placing a small flat head terminal driver into the slots on the bottom face of the thermostat.

Carefully unplug the ribbon connector which is plugged in to the front half of the thermostat.

Place the thermostat front half somewhere safe. Terminate the thermostat as shown in the diagrams below.

Screw the thermostat back plate on to the back box

Re-connect the thermostat ribbon cable and clip the two halves together.





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Set the Time and Day

This thermostat is fitted with a real time clock. It is essential that the clock time and day are set accurately if you require your programmed events to start on time. Follow below easy steps,

- 1) Press and hold button (3) until the time flashes
- 2) Use button (or) to change the time
- 3) Press button 🕲 again, the day of the week will flash
- 4) Use button (a) or (v) to change the day
- 5) Press button (3) to accept and exit.

Resetting factory defaults

Your thermostat has the ability to reset all settings to the factory defaults. If you are certain you want to do this: In standby mode(when thermostat is turned off), press and hold button and for 5 seconds until RES is shown on LCD. (RES will be appearing only for 5 seconds)

Lock the buttons

To lock the buttons, press and hold the buttons and for 3 seconds until you see a lock icon appearing, to unlock, repeat the steps above.

Select fan speed

Press (3) to select between Auto, High, Medium or Low fan speed. In Auto fan speed, the thermostat will automatically switch the fan between high, medium, or low as described below,

Heating: 1°C below = Low, 2°C below = Medium, 3°C below= high Cooling: 1°C above = Low, 2°C above = Medium, 3°C above= high

Heat/Cool/Auto mode

Press button (M) to select Auto/Heat/Cool mode.

Heat: Thermostat controls only the heating system.

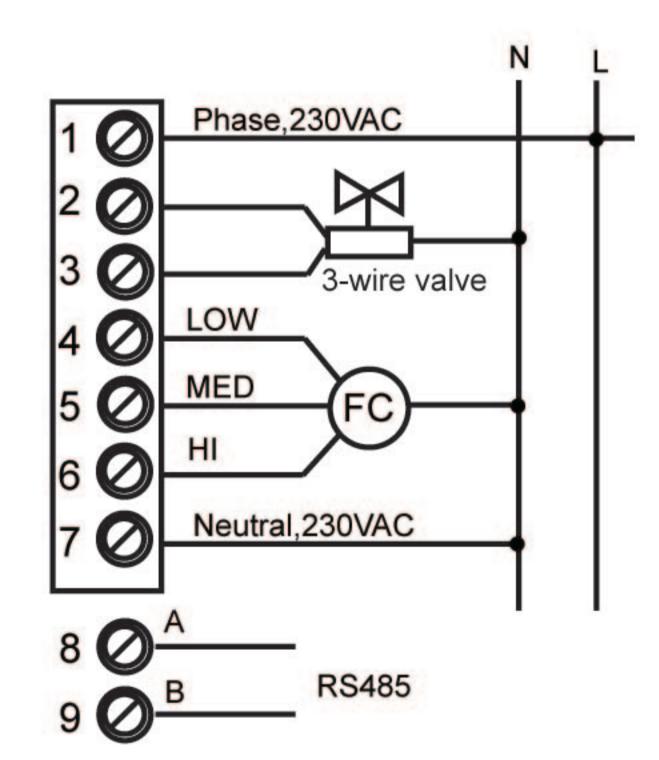
Cool: Thermostat controls only the cooling system.

Auto: Thermostat automatically selects heating or cooling

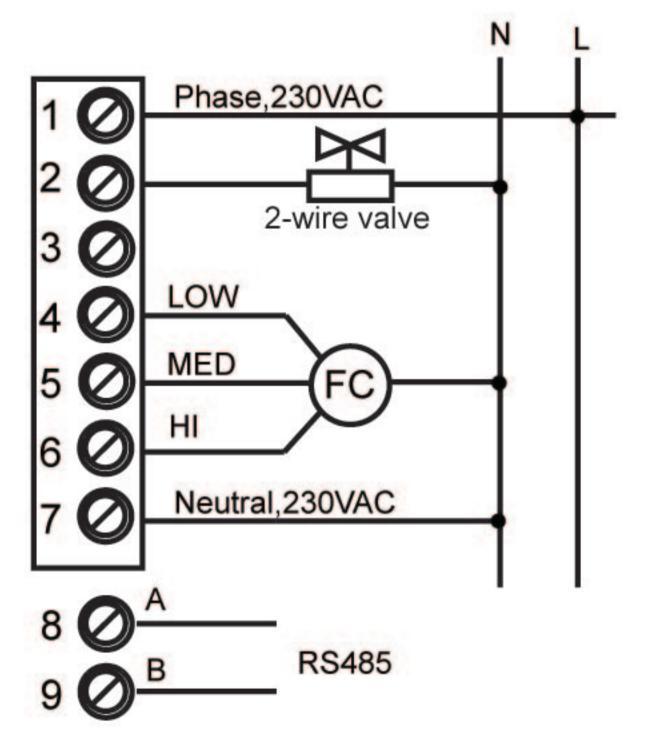
depending on the room temperature.

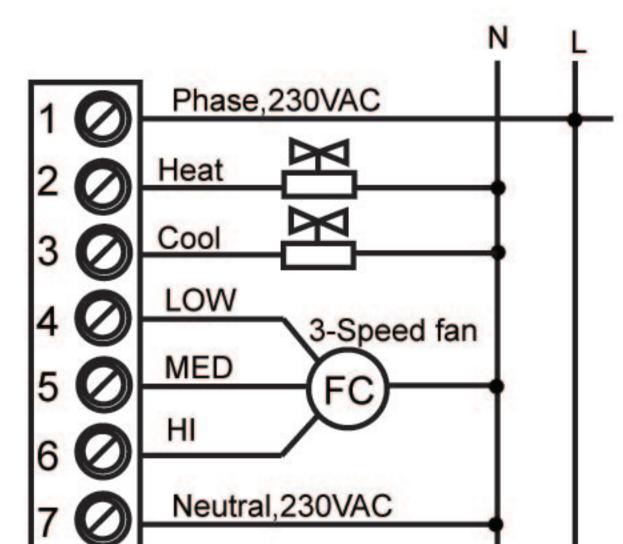
Wiring Examples

2 pipe fan coil system 3-wire valve RS485 communication



2 pipe fan coil system 2-wire valve RS485 communication





RS485

4 pipe fan coil system 2-wire valves RS485 communication