TR8100AC Thermostat Instructions

ver 1.1

LCD symbols

Symbols	Description
⏻	Turning on/off the thermostat
🔒	The buttons are locked
Day	Days of the week. 1-7, Monday-Sunday
❄ (fan)	Fan adjustment button
▮	Fan speed bars. Low ▮ ; Medium ▮ ; High ▮ .
Program 1	Program number, e.g. Program1, Program2,...etc
AUTO	Automatic fan speed
O / RIDE	Temporary temperature override
❄	Cool mode
☀	Heat mode
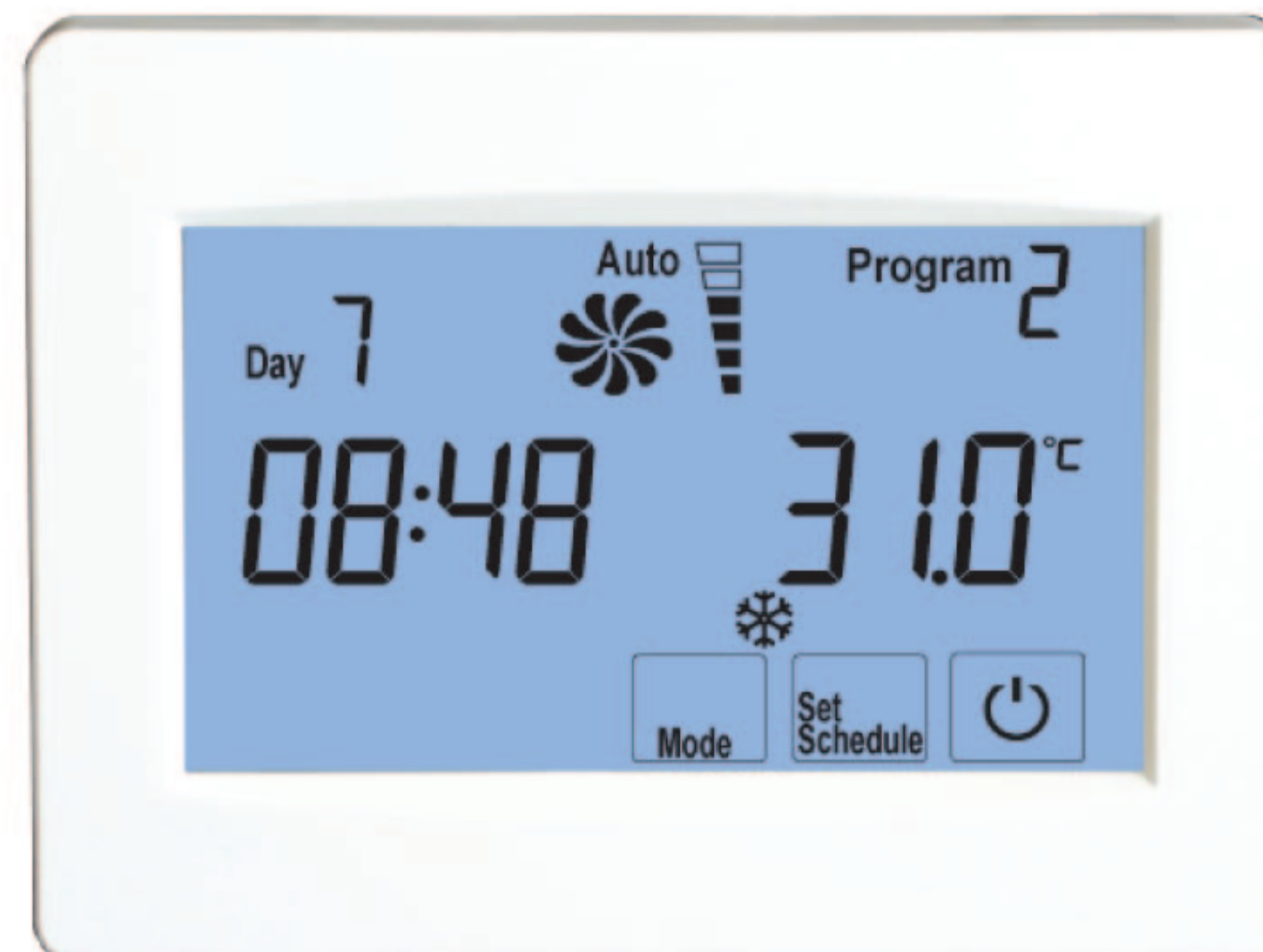
Configuration Menu

To enter into configuration menu, follow below 2 steps,

Step 1, Turn the thermostat off by pressing ⏻ ; *Step 2, Press* [Set Menu]

Then you will see menu 01. Press [Next] or [Previous] to select the menu number. Use ⊕ or ▽ in the center adjust the setting.

Press [Done] to accept and store.

Menu #	Description	Explanation	Adjustment (press ⊕ or ▽ to adjust)
01	Switching differential	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, setting range 1°C ~ 10°C
02	Temperature calibrate	This is to calibrate room temperature display if required	0 °C by default, setting range -5°C ~ +5°C
03	Backlight turning-on time	This is to set the backlight turning-on time.	15 seconds(default) setting range: OFF,15, 30,ON OFF= backlight permanently off; ON= backlight permanently on
04	Temperature format	This allows users to select between °C or °F.	°C by default
05	Clock format	12 Hour or 24 Hour clock format selection	24H (default)=24-hour clock, 12H =12-hour clock
06	Program style	This allows user to select 2 kinds of program style: 7 day programmable / 5+2 day programmable	7 = 7 day programmable style; 52 = 5 day(weekday)+2 day(weekends) programmable style.
07	Fan running options	Offer 2 options for fan running: 0: When room temperature reaches the set-point, it will close the valve with the fan still running; 1: When room temperature reaches the set-point, it will close the valve and turn off the fan.	0 by default

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Setting the clock and day of the week

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 steps,

1) Touch time display and you will see time flashing.   Use ⊕ or ▽ to change the time. Press and hold ⊕ or ▽ to change the time faster.

2) Press [Next] to move to the Day setting. Use ⊕ or ▽ to change.

3) Press [Done] to store and exit.

Note: you can also touch the day display directly to set the day of the week.

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Save money by setting program schedules

This thermostat is an individual 7-day programmalbe. For each day of the week you are able to have 4 timed set temperature schedules.

Program Number	Start Time	Heat	Cool	
1	**WAKE** 07:00	22 °C	23 °C	Set to the time you would like to wake to and the temperature you want during the morning, until you left for the day.
2	**LEAVE** 09:30	16 °C	28 °C	Set to the time you leave home and the temperature you wish your home to maintain while you are away at work perhaps.
3	**RETURN** 16:30	22 °C	23 °C	Set to the time you return home at end of the day and the temperature you want during evening until bed time.
4	**SLEEP** 22:30	16 °C	25 °C	Set to the time you sleep and the temperature you want overnight(usually a comfortable and energy saving temperature).

Above are default program schedules, to make changes, follow easy steps as below.

1. Press [set schedule] ,you will see day display flashing.

2. Use [+] or [–] adjust the day to the day you wish to start programming or to the day you wish to edit an existing event or program.

    (Press [All Days] to select all days of the week, to cancel selecting all days of the week, press [All Days] again.)

3. Press [Next] , the LCD will show program 1 with the time display flashing.

4. Use [+] or [–] adjust the time you wish the program 1 event to commence for the currently selected day.

5. Press [Next] , the LCD will show a temperature value flashing.

6. Use [+] or [–] set the desired heating temperature to be maintained for the program 1 event.

7. Press [Next] , now the LCD will show program 2 with the time display flashing, signifying the second daily event is now being programmed.

8. Repeat step 4,5,6 to set remaining programs. Press [Done] to store and exit.

    Note: During setting programs, press [Delete] will clear a program entry and thermostat will maintain the temperature setpoint of the last executed program until the beginning of the next program.

Heat /Cool Mode

Press [Mode] to select Heat ☀ / Cool ❄

Fan Speed

Press ❋ to select fan speed.

Lock the keypad

To lock the keypad, press and hold the bottom left corner of display for 5 seconds, you will see a lock symbol 🔒 .
To unlock, repeat the steps above and the lock symbol will disappear.

Reset to Factory setting

With thermostat turned off, press and hold the up left corner of display for 5 seconds until you can see RESET on LCD.

Temporary temperature override

Touch the temperature display, and it will start to flash. Use [+] or [–] to adjust. Press [Done] to accept, and you will see "O/RIDE" on LCD.
Thermostat will maintain the new set temperature until the next programmed event(comfort level). To cancel the override setting, press [Run Schedule]

⚠ This product should be installed a qualified electrician.

Installation and Wiring

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.

TR8100AC model, 2 pipe, 2-wire valve

TR8100AC model, 2 pipe, 3-wire valve

TR8100AC model, 3-wire air damper

TR8100AC4P model, 4 pipe, 2-wire valve (Need to order separately)