








TR8100V-2ZP Thermostat Instructions

ver 1.0

LCD symbols


Symbol	Event	Symbol	Event
	The buttons are locked	AUTO	Automatic mode, executes the programmed schedules
	Heating is turned on	Override	Temporary temperature override
	Frost protection activated	Err	The floor sensor is not being read by the thermostat
	Program number		Economy temperature
	Manual mode		Comfort temperature



Alternating the heating zones

In order to alternate between the heating zones (heated areas) you should press **ZONE**, the LCD will display ZONE 1 or ZONE 2.

LCD will only show the actual current floor temperature in the chosen zone. To view the set temperature for the current chosen zone, just touch the temperature display area. To exit, just touch the display area again.

 Note: all settings will only be valid for currently selected zones

Switching the heating zones off

In order to switch off the heating in one of the zones you should set minimum temperature in this zone, i.e. +5°C.

To switch off all heating zones, just press **POWER** once you see OFF on LCD screen.

Configuration menu

To enter into the setting menu please follow the steps below:

Step 1, Turn the thermostat off by pressing **POWER**;

Step 2, Press **MENU**, you will then see menu 01.

Step 3, Use the up and down arrows to adjust the sensor selection which is Menu 01(Switching Differential settings)

Step 4, Press **NEXT** to move to the next Menu and once you have all the menu options set,

Step 5, Press **DONE** to accept and store

Menu #	Feature	Explanation	Adjustment (press up & down buttons to adjust)
01	Switching Differential	The number of degrees 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, 2°C....10°C (1°C by default)
02	Temperature Calibration	This is to recalibrate the temperature if required.	-1°C = decrease 1 °C, 1°C = increase 1°C...
03	Temperature Format	This allows the temperature to be set to show °C or °F.	°C or °F
04	Clock Format	You can select the clock to show in either 12 or 24 hour time	24 (default), 12- hour or 24-hour clock format
05	Frost Protection	This is to avoid your room temperature going below 5°C	on= activated, off= deactivated
06	5+2 / 7 Day Mode	This allows you to program either 5 days at once, then the 2 days of the weekend separately, or a full 7 days at the same time or 7 days separately	01 = 5+2 day programmable 02 = 7 day programmable

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. To set follow the steps below:

- 1) Touch the time display and the time will start flashing. Use the up and down arrows to set the time. By holding the arrow down the time will change faster.
- 2) Press **NEXT** to move to the Day setting and use the up and down arrows to get to the correct day.
- 3) Press **DONE** to store and exit.

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Setting the Program Schedules

This thermostat has the ability to program each individual day of the week separately, or program 7 days of the week at once. You can also program weekdays (5 days) to one schedule and then weekends (2 days) to a different schedule. See the Menu information for details on how to set this up.(refer to Menu 10)

Program	Start Time	Setpoint	Explanation
1	WAKE 07:00	22 °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	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	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	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.

- Press and the day display will start flashing. (If your thermostat is set to 5+2 day programmable mode, the programming will skip to step3)
- Use to adjust the day of the week you want to start programming or to the day you wish to edit an existing event / program.
(Press to select all 7 days of the week, and to cancel press again.)
- Press the LCD screen will show Program 1() and the time will be flashing.
- Use and to adjust the time you wish the Program 1 event to commence for the selected day/days.
- Press and the temperature will start flashing.
- Use and to set the desired temperature to be maintained during Program 1.
- Press and the LCD screen will show Program 2 with the time display flashing, this signifies that the second daily event is now ready to be programmed.

Repeat steps 4,5,6 to set the remaining programs/events, then press to store and exit.

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

Auto / Manual Mode

Press to select Auto/Manual mode. In Manual mode(), the thermostat maintains a constant set temperature manually set by the user. In Auto mode, the thermostat executes the preprogrammed schedules.

Holiday Function

The Holiday function reduces the temperature in your room to the frost protection temperature. The thermostat will maintain this temperature for the duration of the holiday and will then automatically return to the program mode on your return.

Press , enter the duration of your holiday by or .
Press . To cancel a Holiday, reduce the holiday period to 00 days.

Lock the Keypad

To lock the keypad, press and hold the top 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 OFF for 5 seconds until you can see -- : -- on LCD.

Temporary Temperature Override

Touch the temperature display, and it will start to flash. Use up or down buttons to adjust. Press to accept, and you will see "Override" above the temperature display. Thermostat will maintain the new set temperature until the next programmed event(comfort level). To cancel the override setting, press .

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 flush box

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

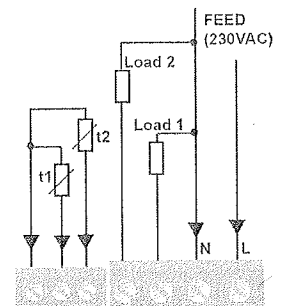
Note: Load 1 refers to heating element or device in zone 1, and t1(sensor 1) should be installed in zone 1.
Load 2 refers to heating element or device in zone 2, and t2(sensor 2) should be installed in zone 2.

Load 1: 8 amp max, resistive

Load 2: 8 amp max, resistive

t1: sensor 1

t2: sensor 2



This product should be installed by a qualified electrician.