TR3100-2ZP Thermostat Instructions (Part I)

ver 1.2

Buttons and LCD display

Buttons / Icon	Description	Button / Icon	Description
P	Turning on/off thermostat. Setting the schedules(programmes)	AUTO	Auto mode
M	Menu button / Zone selection. Auto/Manual mode selection	✍	Manual mode
✓	Accept the set values. Set the time and week days	🧳	Vacation mode
△	Increase the set value. Cancel temperature override	override	Temporary temperature override
▽	Decrease the set value. Vacation mode	❄	Frost protection activated
🔒	The buttons are locked.	SET	Set temperature
♨	Heating is turned on	🏠1	Programmes number
▁▃▅▇	The difference between set temperature and room temperature, more bars means more difference	1 2	Zone number
		☾	Economy temperature
		☀	Comfort temperature

Wed 07:00 25℃ 20.5℃ 2 Auto ▁▃ ☀

Menu Settings

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

Menu #	Features description	Features Explanation	Adjustment (press up or down button to adjust)
1	Sd (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 = 1 degree(default), 2 =2 degrees.........
2	TC (temp calibrate)	This is to calibrate air temperature if required.	-1 = decrease 1 degree, 1 = increase 1 degree...
3	PTD (program time delay)	This gives more time for user to set the programmes before reverting back to standard display	5s , 10s , 15s ,20s (default) , 25s, 30s.
4	BL (backlight turning-on time setting)	This is to set the backlight turning-on time. User can also set the backlight always on or off.	30 seconds(default) On= always on, OFF= always off
5	TF (temperature format)	This alows users to select between °C or °F.	°C or °F
6	CLOCK	12/24 HOUR clock system selection	24 (default), 12- hour or 24-hour clock system
7	SC(setpoint configuration)	This allows user to select 2 kinds of default setpoints	4 means 4 independent setpoints, 2 means: setpoint 1 is the same to setpoint 3 , setpoint 2 is the same to setpoint 4
8	FP(Frost protection)	This is to avoid room temperature goes below 5°C	on= activated, off= deactivated

Remarks: **Not all menus are visible in certain models. For example, if you set the thermostat to A or F model, menu 6 and menu 7 will not be visable.**

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

LO - This error means that the room or floor temperature is below 0°C

HI - This error means that the room or floor temperature is greater than 50°C

If the floor 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.

See overleaf for further setting up information

Alternating the heating zones

In order to alternate between the heating zones (heated areas) you should press and hold the button M. On LCD, there will be zone number displaying. **1** or **2**

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

Programme your 4 daily events
Follow easy steps below,

1	Press and hold button P for 5 seconds to show program mode and day selection set all days the same, press and hold arrow down button for 5 seconds. To select an individual day press the arrow up or down in succession until the desired day is shown.
2	Press button P to bring up the first set point (PROG#1). Use the up and down arrow to set time for comfort level (default 07:00)
3	Press button P again and use the up and down arrow to select temperature (default 22 ˚C)
4	Press Button P again to show set point 2 (economy mode). Use the up and down arrows to set economy time (default 9:30)
5	Press button P again and use the up and down arrows to select temperature (default 16˚C)
6	Press Button P again to show set point 3 (comfort mode). Use the up and down arrows to set comfort time (default 16:30)
7	Press button P again and use the up and down arrow to select temperature (default 22 ˚C)
8	Press Button P again to show set point 4 (economy mode). Use the up and down arrows to set economy time(default 22:30)
9	Press button P again and use the up and down arrows to select temperature (default 16 ˚C)
10	Press button P to accept

Lock the buttons
To lock the buttons, press and hold the up and down arrow buttons simultaneously for 3 seconds, to unlock the buttons, press and hold the up and down arrow buttons simultaneously again.

Vacation mode
To set vacation mode press and hold down arrow button for 3 seconds, use same procedure to exit this mode.

Vacation mode will maintain a set temperature (default 10 deg C) all the time. Press up or down button to change the set point.

Reset to Factory setting
In standby mode(when thermostat is turned off), press and hold button 2 and 3 for 3 seconds to reset the thermostat fully to the configuration it left the factory. (there will be a RESET appearing for 5 seconds)

Manual temperature override
When the up button is pressed the set temperature is increased and when the down button is pressed the set temperature is decreased and thermostat will maintain the new set temperature until the next set point(comfort level). To cancel the override setting, just press and hold up button for 3 seconds.

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 easy steps,
1) Press and hold button 3 for 5 seconds and the time will flash
2) *Use the up and down arrow to change the time*
3) *Press button 3 again, the day of the week will flash*
4) *Use the up and down arrows to change the day*
5) *Press button 3 again to accept*

Installation and Wiring

Thermostat is to be mounted on the wall with free air circulation around it. Furthermore it has to be placed where it is not influenced by any other heating source(e.g.the sun), draft from doors or windows, or by the temperature of an exterior wall.

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.

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: 10 amp max, resistive
Load 2: 10 amp max, resistive
t1: sensor 1
t2: sensor 2

⚠️

This product should be installed by a qualified electrician.