

TR3100EU Thermostat Instructions (Part I)

Ver.1.0

Buttons and LCD display

Button / Icon	Description	Button / Icon	Description
	Turning on/off thermostat	AUTO	Auto mode(select by button M)
	Program button / Long press for time&day settings		Manual mode(select by button M)
	Mode button(Auto/Manual mode)	Menu	General settings menu
	Confirm the settings	OVERRIDE	Temporary temperature override
	Increase the set value		Frost protection activated
	Decrease the set value	Reset	Thermostat being reset
	The buttons are locked.		Programmes number
	Heating is turned on		Floor limit temperature is reached
OFF	Thermostat is turned off		Economy temperature
			Comfort temperature



General Settings

Press button to Turn on/off the thermostat. When turned off, thermostat will show OFF on display. At this time, press and hold button P for 3 seconds to bring up a configuration menu. The word "menu" will appear on the bottom of LCD. Now by each press of button P, thermostat will guide you through all available menu with numbers 01, 02..... 10.

Menu #	Features description	Features Explanation	Adjustment (press up or down button to adjust)
01	Model selection	This thermostat is a combination model allowing you to choose between 3 different models. A, AF and F model. A model: air only, with built in sensor AF model: air & floor, with both built in and remote sensor F model: floor only, with remote sensor	A, AF, F
02	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.....
03	Air temp calibrate	This is to calibrate air temperature if required.	-1 = decrease 1 degree, 1 = increase 1 degree...
04	Floor temp calibrate	This is to calibrate floor temperature if required.	-1 = decrease 1 degree, 1 = increase 1 degree...
05	Temperature readout mode	This gives option to choose to show air temperature, floor temperature or to show both floo& air in interval.	A= to show air temperature, F=to show floor temperature, A--F = to show both in 5 second intervals
06	Maximum floor temperature	This is to protect the floor surface.	40 degree(default)
07	Temperature format	This allows users to select between °C or °F.	°C or °F
08	Clock format	12/24 HOUR clock format selection	24 (default)
09	Frost protection	This is to avoid room temperature goes below 5°C	on= activated, off= deactivated
10	Program mode	Allows user to select from 2 kinds of program mode	7=7day program mode; 52=5/2 day program mode

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 visible.

	If thermostat is set to AF or F model, the floor sensor must be connected. Otherwise, heating will never come up.
	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

Auto / Manual mode

Press button M 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. To adjust these schedules, follow easy steps below,

How to program your thermostat

In 5/2 day program mode

- 1 Press button P once, you will see the time flashing.
- 2 Press ▲ or ▼ to set your weekday Wake time(Mon-Fri), then press button P.
- 3 Press ▲ or ▼ to set the temperature for this time period, then press button P.
- 4 Set time and temperature for the next time period(Leave). Repeat steps 2 and 3 for each time period of the weekday.
- 5 Press button P to move to the weekend(sat-sun) time periods settings. Press ✓ to save and exit.

In 7 day program mode

- 1 Press button P, you will see a day flashing.
 - 2 Press button ▲ or ▼ to select the day you want to program for.
 - 3 Press and hold button ▲ or ▼ for 5 seconds to select all the days.
 - 4 Press button P again, you will see the time flashing.
 - 5 Press button ▲ or ▼ to set the time, then press button P.
 - 6 Press ▲ or ▼ to set the temperature for this time period, then press button P.
 - 7 Set time and temperature for the other time periods. Press ✓ to save and exit.
- Note: It is faster to program the same schedule for the entire week and then to adjust the exceptional days.

Both in above 2 program modes, to erase second and third time period settings for the weekend, see below,

- Select Saturday or Sunday.
- Instead of using button ▲ or ▼ to set time, using button M will erase the time.(--:--).
- To cancel the above setting, press button M again.

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 button P for 5 seconds, and the time will flash
- 2) Use button ▲ or ▼ to change the time
- 3) Press button P again, the day of the week will flash
- 4) Use button ▲ or ▼ to change the day
- 5) Press button ✓ to save and exit.

Resetting to 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 M and ✓ for 5 seconds until RESET is shown on LCD. (RESET will be appearing only for 5 seconds)

Lock the buttons

To lock the buttons, press and hold the buttons ▲ and ▼ for 5 seconds until you see a lock icon appearing, to unlock, repeat the steps above.

View floor temperature

If thermostat is set in AF model, and set to show air temperature only, press and hold button ▼ for 3 seconds, floor temperature will show and it will automatically revert back to air temperature in 5 seconds.

Temporary temperature override

To temporary override the current setpoint temperature,

1. Press button ▲ or ▼ once, the set temperature starts flashing
2. Press button ▲ or ▼ again to adjust the set temperature
3. Wait for 5 seconds to confirm the setting with OVERRIDE shown

Now your thermostat will maintain the new set temperature until the next setpoint. To cancel the override setting, press and hold button ✓ for 5 seconds until OVERRIDE disappear.

Installation and Wiring

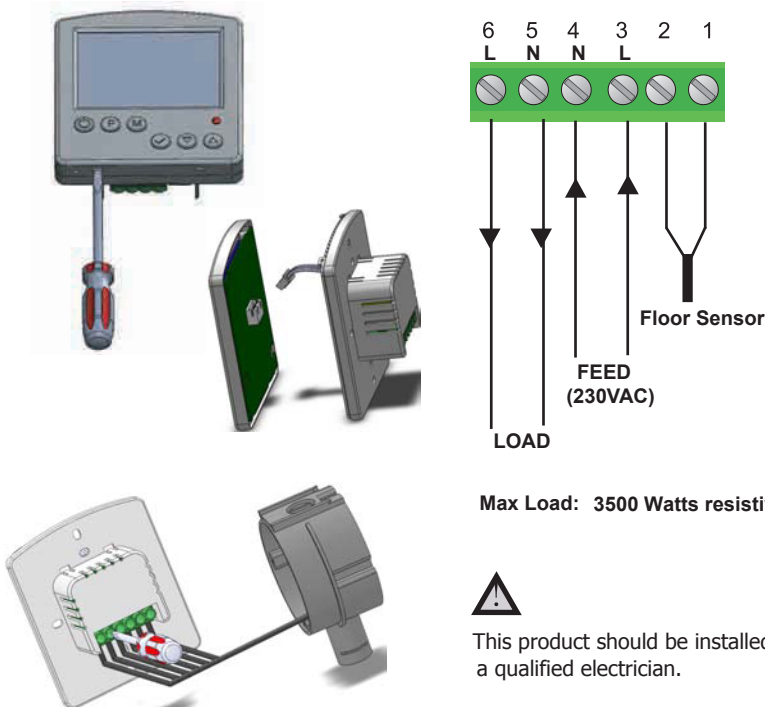
Carefully separate the front half of the thermostat from the back plate by placing a small flat head terminal driver into the slots on the bottom face of the thermostat.

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.



Dimensions

