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Prior to setting the thermostat, it is necessary to complete all required settings described in this section.

**CAUTION!**

The thermostat must not be left unsupervised when open. (Prevent non specialists and especially children from gaining access to it.)

Only qualified electricians or authorised service staff are permitted to open the thermostat.

If the thermostat is used in a way not specified by the manufacturer, its safety may be impaired.

**Important: Keep this document**



## 1. Factory default settings



Temperature indicator:	°C
Switching differential:	0.4°C
In built frost protection:	5°C - Not adjustable
Clock:	24 hours
Keypad lock:	Off
Operating mode:	5/2 day

## 2. Specifications & wiring

Power supply:	2 x AA Alkaline Battery
Power consumption:	2 mW
Battery replacement:	Once a year
Temp. control range:	5 ... 35°C
Ambient temperature:	0 ... 50°C
Dimensions:	84 x 84 x 30mm
Temperature sensor:	NTC 10K Ohm @ 25°C
Temperature indication:	°C
Switching differential:	Adjustable from 0.2/0.4/0.6/0.8/1.0°C
Frost protection:	Only operational in stand by mode

## 3. Mounting

- The mounting height should be 1.5 meters above the floor level.
- The thermostat should be wall mounted in the room where the heating is to be controlled.
- The place of installation should be chosen so that the sensor can measure the room temperature as accurately as possible.
- Choose the mounting location to prevent direct exposure to sunlight or other heating / cooling sources when mounted.
- The unit can be fitted to:
1. Recessed conduit boxes.
  2. Surface mounting boxes.
  3. Directly on walls.
  4. Table mounting with stand provided.

## 4. Installation

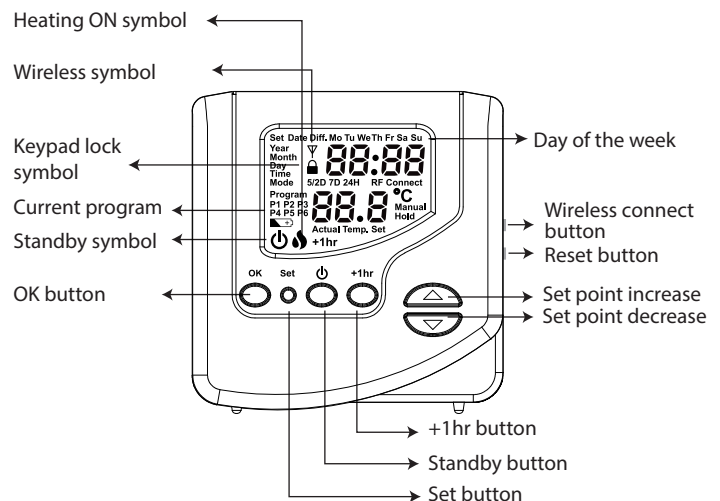
- Slacken the fastening screw on the bottom of the thermostat with a philips head screwdriver.
- The thermostat is hinged and can be opened 180 degrees.
- Mount the unit as described in section 3.**
- Insert 2 x AA batteries.
- Close the thermostat and tighten the fastening screw.

## 5. Frost protection



Frost protection is built into this thermostat. It is pre fixed at 5°C and is not adjustable. It will only be activated when the thermostat is in the stand by mode and the room temperature falls below 5°C.

## 6. Button / Symbol description



## 7. Resetting the thermostat

- It is necessary to reset the thermostat prior to initial programming.
- Press the RESET button on the side of the thermostat.
- 'rst no' will appear on the screen.
- Press the button.
- 'rst yes' will appear on the screen.
- Press the 'OK' button to return to normal operation.

## 8. Keypad lock and unlock



- To lock the keypad, press and hold the and buttons for 5 seconds.
- will appear on the screen. The keypad is now locked.
- To unlock the keypad, press and hold the and buttons for 5 seconds.
- will disappear from the screen. The keypad is now unlocked.

### 9. Setting the date, time and operating mode

Press the button once. 'Set Year' will appear on the screen.  
 Press the or buttons to adjust the year. Press the 'OK' button.  
 Press the or buttons to adjust the month. Press the 'OK' button.  
 Press the or buttons to adjust the day. Press the 'OK' button.  
 Press the or buttons to adjust the hour. Press the 'OK' button.  
 Press the or buttons to adjust the minute. Press the 'OK' button.  
 Press the or buttons to adjust from 5/2d to 7d or 24h mode.  
 Press the button or wait 30 seconds and the thermostat will return to normal operation.

### 10. Factory program setting 5 / 2d

	5/2D					
	P1	P2	P3	P4	P5	P6
Mon-Fri	06:30	08:00	12:00	14:00	17:30	22:00
	21°C	18°C	21°C	18°C	21°C	16°C
Sat-Sun	08:00	10:00	12:00	14:00	17:30	23:00
	21°C	18°C	21°C	18°C	21°C	16°C

	7D					
	P1	P2	P3	P4	P5	P6
Mon-Fri	06:30	08:00	12:00	14:00	17:30	22:00
	21°C	18°C	21°C	18°C	21°C	16°C
Sat-Sun	08:00	10:00	12:00	14:00	17:30	23:00
	21°C	18°C	21°C	18°C	21°C	16°C

Everyday	24H					
	P1	P2	P3	P4	P5	P6
	06:30	08:00	12:00	14:00	17:30	22:00
	21°C	18°C	21°C	18°C	21°C	16°C

### 11. Adjusting the program settings for 5/2d

Press the button twice.  
**Programming for Monday to Friday is now selected.**  
 Press the or buttons to adjust the P1 time. Press the 'OK' button.  
 Press the or buttons to adjust the P1 temp. Press the 'OK' button.  
 Repeat this process to adjust P2 to P6 times and temperatures.  
 Press the button.  
**Programming for Saturday to Sunday is now selected.**  
 Press the or buttons to adjust the P1 time. Press the 'OK' button.  
 Press the or buttons to adjust the P1 temp. Press the 'OK' button.  
 Repeat this process to adjust P2 to P6 times and temperatures.  
 Press the button to return to automatic mode.  
 If 7 D mode is selected, you can program each day of the week with 6 individual times and temperatures.  
 If 24H mode is selected, you can only program each day of the week with the same 6 times and temperatures.

### 12. Temporary override (Manual)

Press the or buttons to adjust the temperature setpoint.  
 'Manual' will appear on the screen.  
 Press 'OK' or after 5 seconds the thermostat will operate in this temporary override.  
 Press the button to return to automatic mode.

### 13. Permanent override (Hold)

Press the '+1hr' button for 3 seconds.  
 'Hold' will appear on the screen.  
 Press the or buttons to adjust the temperature setpoint.  
 Press 'OK' or after 5 seconds the thermostat will operate in this permanent override.  
 Press the button to return to automatic mode.

### 14. +1hr Boost function

Press the '+1hr' button once.  
 Press the or button to select your desired boost temperature.  
 Press the 'OK' button.  
 The thermostat will operate in this mode for one hour before returning to automatic mode.  
 To cancel the boost mode at anytime, press the button or the +1hr button.

### 15. Adjusting the switching differential 0.4°C

Press the 'OK' and '+1hr' buttons for 5 seconds.  
 'H On 0.4°C' will appear on the screen.  
 Press the or buttons to adjust from 0.2, 0.4, 0.6, 0.8 or 1°C.  
 Press the 'OK' button to return to normal operation.

### 16. To connect the TRFPi2 thermostat to the RF1A receiver

Please note, If you are installing a CombiPack2 the TRFPi2 thermostat and the RF1A receiver will have a pre-established RF connection so it is not necessary to carry out the RF connection process below.

**On the RF1A receiver:**

Press the button. The red and green light will begin to flash.

**On the TRFPi2 thermostat:**

Press the RF Connect button.

The thermostat will begin to search through the RF channels.

Once an RF connection has been established the thermostat will show 'r01' on the LCD screen.

Press the 'OK' button to finish the process.

The thermostat is now connected to the RF1A receiver.

'RF Connect' appears on the screen.

### 17. To disconnect the TRFPi2 thermostat from the RF1A receiver

On the TRFPi2 thermostat;

Press the **RF Connect** button.

The thermostat will begin to search through the RF channels.

Press and hold the **standby** button for 10 seconds.

'AdL' & 'AdH' will flash intermittently on the screen of the thermostat.

Press the 'OK' button twice to complete the unpairing process.

The thermostat TRFPi2 is now disconnected from the receiver RF1A.

Note: RF Connect may remain on the screen for a couple of minutes.

On the RF1A

Press the **RESET** button and immediately press the **Connect** button.

The red and green lights will flash quickly followed by a solid red light.

The RF1A receiver is now disconnected from the TRFPi2 thermostat.

### 18. Battery low warning

When the batteries are almost empty, the **Battery Low** symbol will begin to flash on the screen.

The batteries must now be replaced or the unit will shut down.

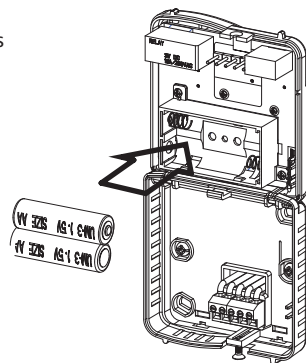
### 19. Replacing the batteries

Slacken the fastening screw on the bottom of the thermostat with a philips head screwdriver.

The thermostat is hinged and can be opened 180 degrees.

Replace the batteries with 2 x AA Alkaline batteries.

Close the thermostat and tighten the fastening screw.



### 20. Installer menu

To access the installer menu, you must hold **OK** and **standby** for 5 seconds.

- When in the installer menu, press **up** or **down** and **OK** to navigate and select.

#### Normal Mode (Nor)

When the thermostat is in Normal mode, the thermostat will try to reach the target temperature after the program changes.

*Example: Program 1 on the thermostat is 21°C for 06:30am and the room temperature is 18°C. The thermostat will start the heating at 06:30am and the room temperature will start to increase then.*

To return to main menu, press **OK** to select **Nor**

### Optimum Start Mode (OS) **BOILER PLUS**

When the thermostat is in Optimum Start mode, the thermostat will try to reach the target temperature by the start time of the next switching time. This is done by setting the Ti (time interval) on the thermostat in this menu to 10, 15 or 20. This will allow the thermostat 10 mins, 15 mins or 20 mins to increase the room temperature by 1°C.

Ti can be set when OS is selected in the installer menu. 20°C

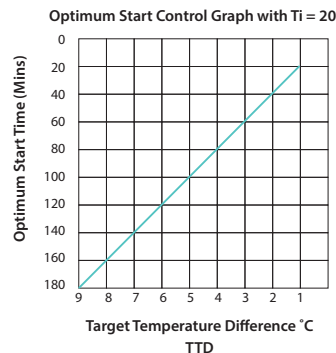
To return to main menu, press **OK** to select required Ti

To achieve the target temperature when the program starts, the thermostat will read:

- The Room Temperature (RT)
- The Setpoint Temperature (ST)
- The Target Temperature Difference (TTD) is the difference between the setpoint temperature and the room temperature.

The time (in minutes) that it will take to overcome (TTD) is called Optimum Start Time (OST) and its maximum value is 3 hours = 180 mins. This is subtracted from the start time.

As the temperature increases the thermostat will recalculate the OST if the temperature is increasing too quickly.



Example when Ti = 20

Program 1 on the thermostat is 21°C for 06:30am and the room temperature is 18°C. The thermostat will start the heating at 05:30am to reach 21°C for 06:30am @ Ti=20.

Example when Ti = 10

Program 1 on the thermostat is 21°C for 06:30am and the room temperature is 18°C. The thermostat will start the heating at 06:00am to reach 21°C for 06:30am @ Ti=10.

