



EPH CONTROLS CRTP2 Battery Operated Programmable Instruction Manual

[Home](#) » [EPH CONTROLS](#) » EPH CONTROLS CRTP2 Battery Operated Programmable Instruction Manual 



CONTROLS CRTP2 Battery Operated Programmable Instruction Manual



**CRTP2 Room Thermostat Battery Operated
Operating Instructions**

Contents

- [1 CRTP2 Battery Operated Programmable](#)
- [2 Factory program setting](#)
- [3 Replacing the batteries](#)
- [4 Documents / Resources](#)
 - [4.1 References](#)
- [5 Related Posts](#)

CRTP2 Battery Operated Programmable

Contents

1. Factory default settings
2. Specification & wiring
3. Mounting
4. Installation
5. Wiring diagram
6. Frost protection
7. Button / symbol description
8. Resetting the thermostat
9. Keypad lock and unlock
10. Setting the date, time and operating mode
11. Factory default program settings
12. Adjusting the program settings for 5/2d
13. Temporary override (Manual)
14. Permanent override (Hold)
15. Adjusting the switching differential
16. Replacing the batteries
17. Installer Menu

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

1. Factory default settings

Contacts:	Volt Free
Temperature indicator:	°C
Switching differential:	0.4°C
In built frost protection:	5°C
High and Low temp.	Off
limitation: Clock:	24 hours
Keypad lock:	Off

2. Specifications & wiring

Power supply:	2 x AA Alkaline Battery
Power consumption:	8 VA
Temp. control range:	5 ... 35°C
Ambient temperature:	0 ... 50°C
Contact rating:	8A 230Vac
Dimensions:	84 x 84 x 30mm
Temperature sensor:	NTC 10K Ohm @ 25°C
Switching differential:	Adjustable from 0.2/1.0/4.0/6.0/8.0/1.0°C
Frost protection:	Only operational in stand by mode th

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. 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.

Wire the thermostat according to the wiring diagram. Close the thermostat and tighten the fastening screw.

5. Wiring diagram

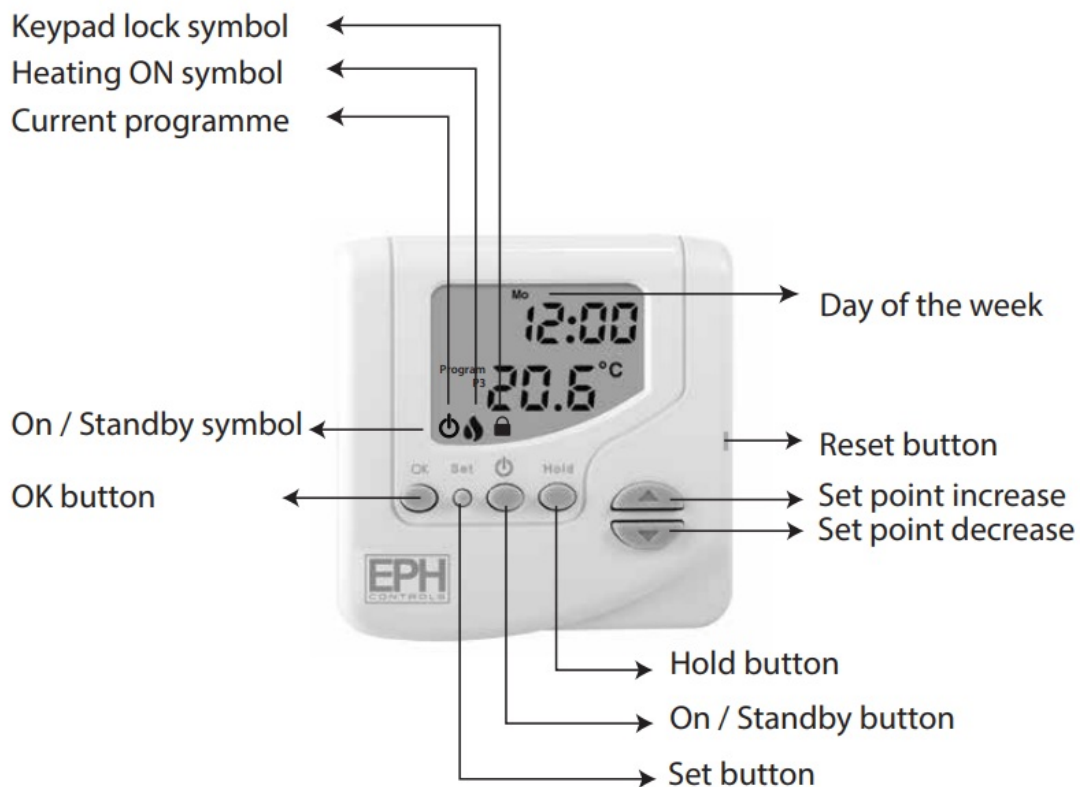
INTERNAL WIRING DIAGRAM CRTP2

If mains voltage output is required, 230V must be connected to terminal 2.


6. 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 reaches 5°C.

7. Button / Symbol description



8. It is necessary to reset the thermostat prior to initial programming.


Press the  RESET button on the side of the thermostat.



'NO' will appear on the screen.

Press the  button.

'YES' will appear on the screen.



Press the 'OK' button to return to normal operation.

9. Keypad lock and unlock  OFF

To lock the keypad, press and hold the  and  buttons for 10 seconds.




will appear on the screen. The keypad is now locked.

To unlock the keypad, press and hold the  and  buttons for 10 seconds.





will disappear from the screen. The keypad is now unlocked.


10. Setting the date, time and operating mode

Press the  button once. 'Set Date 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  button or wait 10 seconds and the thermostat will return to normal operation.

Factory program setting

	5/2D					
	P1	P2	P3	P4	P5	P6
Mon Fri	6:30	8:00	12:00	14:00	17:30	22:00
	21°C	18°C	21°C	18°C	21°C	16°C
Sat-Sun	8:00	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	PS	P6
Mon-Fri	6:30	8:00	12:00	14:00	17:30	22:00
	21°C	18°C	21°C	18°C	21°C	16°C
Sat-Sun	8:00	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
	6:30	8:00	12:00	14:00	17:30	22:00
	21°C	18°C	21°C	18°C	21°C	16°C

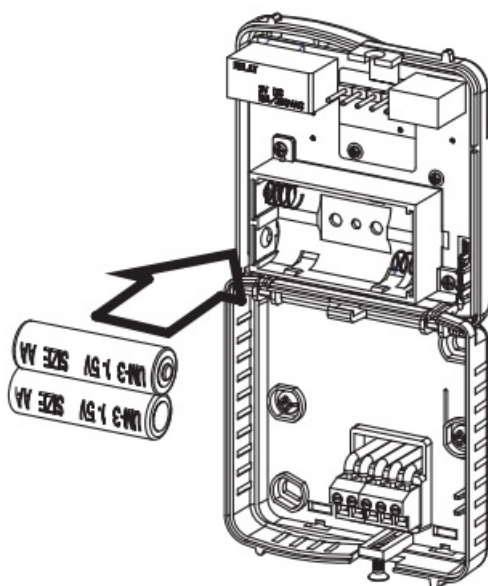
Replacing the batteries


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.



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

When in the installer menu, press  or  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.

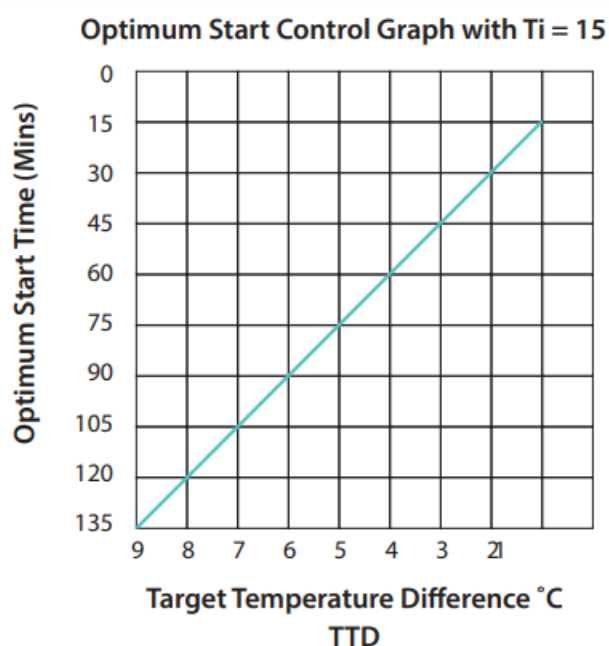
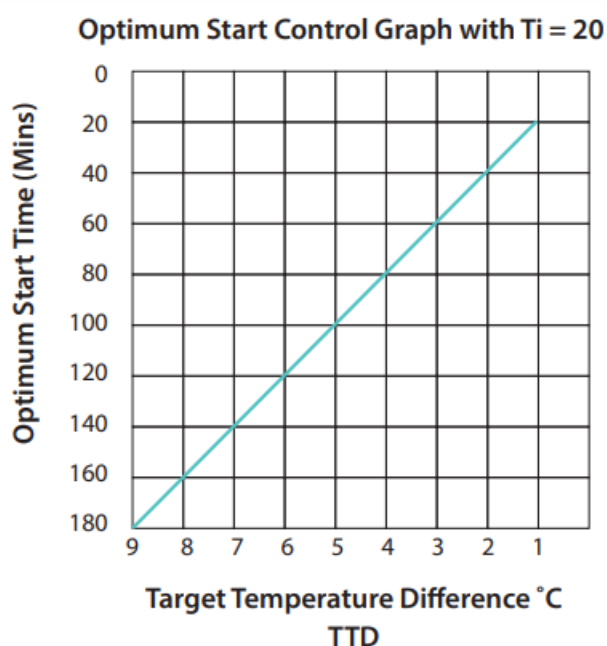
To return to main menu, press OK to select required Ti

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

1. The Room Temperature (RT)
2. The Setpoint Temperature (ST)
3. The Target Temperature Difference (TTD) is the difference between the setpoint temperature and the room temperature . 20°C

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.

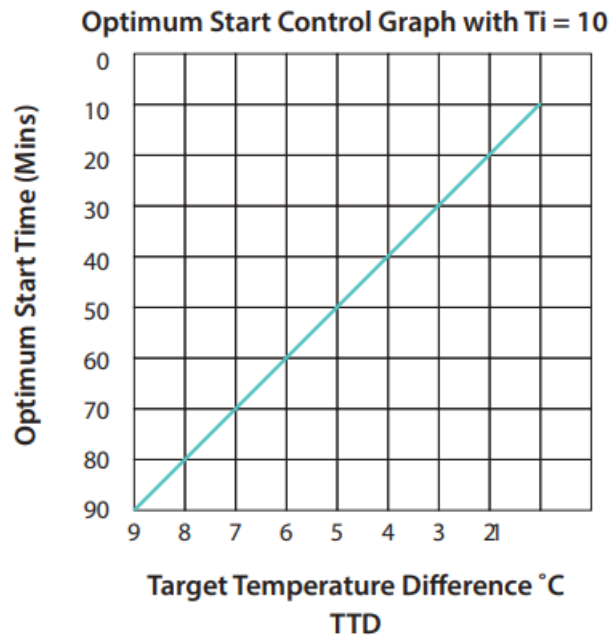
As the temperature increases the thermostat will recalculate the OST if the temperature is increasing too quickly.



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 $T_i = 10$

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 @ $T_i=10$.

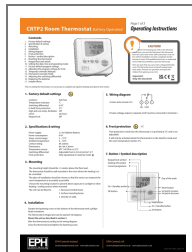
EPH Controls Ireland

technical@ephcontrols.com www.ephcontrols.com

EPH Controls UK

technical@ephcontrols.co.uk www.ephcontrols.co.uk

Documents / Resources



[EPH CONTROLS CRTP2 Battery Operated Programmable](#) [pdf] Instruction Manual
CRTP2, Battery Operated Programmable, Operated Programmable, Battery Programmable, Programmable

References

- [EPH Home Page - EPH Controls](#)
- [EPH Home Page - EPH Controls](#)