

# CURVE

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**Important: Keep this document**



Before commencing any work on the electrical connections, you must first disconnect the device from the mains. None of the 230V connections must be live until the installation has been completed and the housing is closed. Only qualified electricians or authorised service staff are permitted to open the terminal box.



## Caution!

There are parts that carry mains voltage behind the cover. The terminal box must not be left unsupervised when open. (Prevent non specialists and especially children from gaining access to it.)

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


## 1.) Factory default settings

24 hr clock  
 Volt free contacts  
 Temperature indicator: °C  
 Switching differential: 0.4°C  
 In built frost protection: 5°C

Hi and Lo temp. limitation: OFF  
 Auto daylight saving  
 Blue backlight activated for 10 secs after any button is pressed

## 2.) Specifications & wiring

Power Supply: 230VAC 50Hz  
 Power consumption: 8VA  
 Temp. control range: 5...35°C  
 Ambient temp: 0...50°C  
 Contact rating: 8A / 230VAC  
 Dimensions: 84 \* 84 \* 30mm

Temp. sensor: NTC 10K Ohm @ 25°C  
 Temp. 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

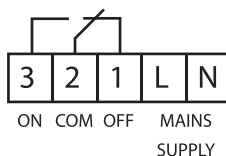
- a) The mounting height should be 1.5 meters above the floor level.
- b) The thermostat should be wall mounted in the room where the heating is to be controlled.
- c) The place of installation should be chosen so that the sensor can measure the room temperature as accurately as possible.
- d) Choose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

## 4.) Installation

- a) Slacken the fastening screw on the bottom of the thermostat with a philips screwdriver.
- b) The thermostat is hinged and can be opened 180 degrees.
- c) Mount the unit as described in section 3.
- d) Wire the thermostat according to the wiring diagram.
- e) Close the thermostat and tighten the fastening screw.

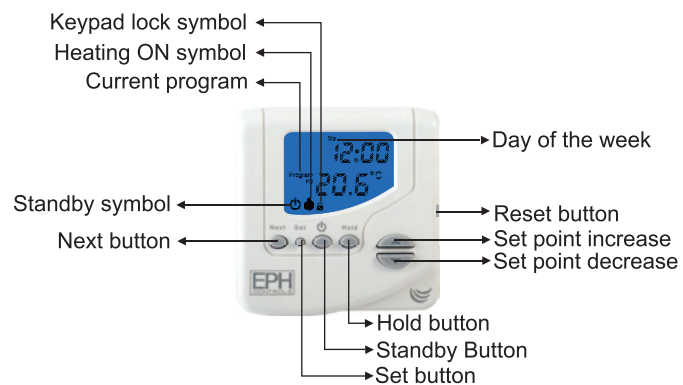
## 5.) Wiring diagram

INTERNAL WIRING DIAGRAM CDTP





If mains voltage output is required, terminals L & 2 must be electrically linked.












## 6.) Button / symbol description








## 7.) Resetting the thermostat

It is necessary to reset the thermostat prior to initial programming. Press and hold the  button for 5 seconds. dEL will appear on the screen. Press the  button on the side of the thermostat.

## 8.) Setting the date and time

Press the  button.  
 Press the  and  buttons to adjust the year. Press the  and  buttons to adjust the month. Press the  and  buttons to adjust the day. Press the  and  buttons to adjust the hour. Press the  and  buttons to adjust the minute. After 10 seconds the thermostat will return to normal operation.

Press the  button. Press the  button. Press the  button. Press the  button. Press the  button.

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Before commencing any work on the electrical connections, you must first disconnect the device from the mains. None of the 230V connections must be live until the installation has been completed and the housing is closed. Only qualified electricians or authorised service staff are permitted to open the terminal box.



### Caution!

There are parts that carry mains voltage behind the cover. The terminal box must not be left unsupervised when open. (Prevent non specialists and especially children from gaining access to it.)

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




## 9.) Factory default settings 5d/1d/1d




|                  | P1    |      | P2    |      | P3    |      | P4    |      | P5    |      | P6    |      |
|------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| Monday to Friday | 06:30 | 21°C | 08:30 | 16°C | 12:00 | 21°C | 14:00 | 16°C | 16:30 | 21°C | 22:00 | 16°C |
| Saturday         | 06:30 | 21°C | 08:30 | 16°C | 12:00 | 21°C | 14:00 | 16°C | 16:30 | 21°C | 22:00 | 16°C |
| Sunday           | 06:30 | 21°C | 08:30 | 16°C | 12:00 | 21°C | 14:00 | 16°C | 16:30 | 21°C | 22:00 | 16°C |

## 10.) Adjusting the program settings

Press the  button twice.

**Programming for Monday to Friday is now selected.**




Press the  and  buttons to adjust the P1 time. Press the  button.




Press the  and  buttons to adjust the P1 temp. Press the  button.

Repeat this process to adjust P2 to P6 times and temperatures.

Press the  button.

**Programming for Saturday is now selected.**




Press the  and  buttons to adjust the P1 time. Press the  button.




Press the  and  buttons to adjust the P1 temp. Press the  button.

Repeat this process to adjust P2 to P6 times and temperatures.


Press the  button.

**Programming for Sunday is now selected.**



Press the  and  buttons to adjust the P1 time. Press the  button.


Press the  and  buttons to adjust the P1 temp. Press the  button.

Repeat this process to adjust P2 to P6 times and temperatures.


Press the  button.

**The thermostat switching differential is now selected.**

Press the  and  buttons to adjust the differential from 0.2...1°C.


Press the  button to return to normal operation.

## 11.) Temporary override (Manual)

Press the  and  buttons to adjust the temperature setpoint.

'Manual' will appear on the screen.



After 10 seconds the thermostat will operate in this temporary override.

Press the  button to return to automatic mode.


## 12.) Permanent override (Hold)

Press the  button.

'Hold' will appear on the screen.

Press the  and  buttons to adjust the temperature setpoint.

After 10 seconds the thermostat will operate in this permanent override.

Press the  button to return to automatic mode.

## 13.) Locking the keypad

The keypad may be locked to avoid interference with the temperature setpoint.

Press the  and  buttons for 5 seconds to lock the keypad.

A padlock symbol  will appear on the screen. The keypad is now locked.



Repeat this process to unlock the keypad.


## 14.) Hi and Lo temperature limitation

It is possible to limit the Hi and Lo temperature setpoints in this thermostat. Temperature setpoints in temporary override, permanent override and the programmed setpoints will be limited within the Hi and Lo limit setpoints.


The Hi temperature limit is preset at 25°C and cannot be adjusted. The Lo temperature limit is preset at 15°C and cannot be adjusted.

### To activate Hi and Lo temperature limitation



Press and hold the  and  buttons for 10 seconds to enter the setting mode. OFF Limit will appear on the screen.


Press the  button to activate this function.

On Limit will appear on the screen.


Press the  button and the thermostat is ready for operation.

### To deactivate Hi and Lo temperature limitation

Press and hold the  and  buttons for 10 seconds to enter the setting mode. On Limit will appear on the screen.

Press the  button to activate this function.


OFF Limit will appear on the screen.

Press the  button and the thermostat is ready for operation.

## 15.) Frost protection

Frost protection is built into this thermostat.

It is prefixed at 5°C and is not adjustable.

Frost protection will only be activated when the thermostat is in the stand by mode  and the room temperature falls below 5°C.