

Danfoss TP5001B Programmable Room Thermostat



Danfoss TP5001B Programmable Room Thermostat User Guide

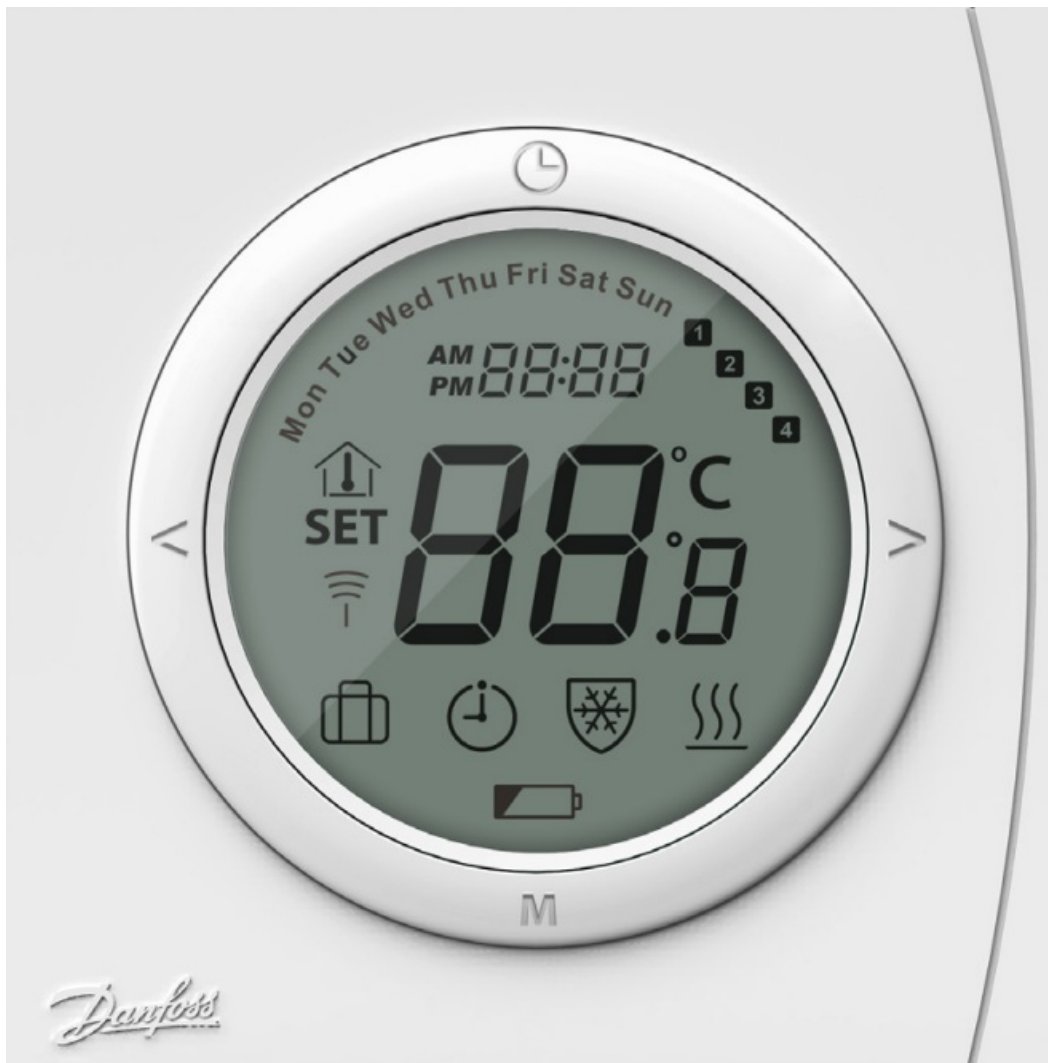
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Danfoss TP5001B Programmable Room Thermostat



What is a programmable room thermostat?

- A programmable thermostat allows you to set the times at which you want your heating to be at a specific temperature.
- A room thermostat works by sensing the air temperature and switching on the heating when the air temperature falls below the thermostat setting, switching it off once this set temperature has been reached.
- The TP5001 programmable room thermostat has made intelligent heating control easier than ever before.



Setting Time and Date

- a. Press  button, and the screen will change to show the current year.
- b. Adjust using  or  to set the correct year. Press  to accept. Repeat step b to set month and time settings.










Advanced Programmable Timer

The Advanced Programmable Timer mode enables the setting of a timer-controlled program for automatic comfort temperature, and an energy-saving lower setback temperature if standard room comfort temperature is not required. The example below for 5/2 day setup, 4 Temperature settings

The function consists of 2 programs:

- **P1** with 4 events over weekdays (Mon. To. Fri.)
- **P2** with 4 events over weekends (Sat. Sun.).
- **P1:** Press  once to activate the product.
- Press  for 3 seconds to display Mo. Tu. We. Th. Fr.

P1, Event 1:

1. Use  or  to select the start hour.
2. Press  to accept the setting.
3. Use  or  to set the minute.
4. Press  to accept the setting.
5. Use  or  to select the temperature.
6. Press  to accept the setting.










P1, Event 2–4:

- Repeat the Event 1 procedure for programming Events 2–4.

P2:

- Sa. Su. are now shown in the display.

P2, Event 1:

1. Use  or  to select the start hour
2. Press  to accept the setting.
3. Use  or  to set the minute.
4. Press  to accept the setting.
5. Use  or  to select the temperature.
6. Press  to accept the setting.

P2, Event 2–4:

- Repeat the Event 1 procedure for programming Event 2–4.

If the working mode is set to 24 hours, only the P1 program will be available (same times each day of the week), to change this see the User settings section of this document.


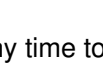
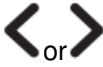
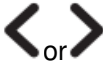
Display and Navigation Details



Display & Navigations


Symbols	Function description	Symbols	Function description
Mon – Sun	Current set day		Schedule mode
1 2 3 4	Current on/off period		Holiday mode
AM PM 00:00	Current set time / parameter number in setup		RF Status (TP5001RF only)
	Room temperature		Battery low indicator (TP5001B & TP5001RF only)
00.0°C	Temperature indication		Power on/off
SET	Set temperature		Timer and program operation
	Heating active	M	Mode change / option setting
	Frost protect active	< >	Temperature / option setting selectors

Setting/Changing the Temperature


- **a.** Press  or  at any time to change the desired temperature value. SET is shown in the display.
- **b.** When releasing the  or , after around 5 seconds, the display returns to showing the actual temperature. This temperature change is only temporary and will be maintained only until the next programmed setting.

Holiday Mode




Holiday Mode selects the comfort temperature typically when the home is unoccupied

- **a.** Press M to enter into Holiday mode and  will be displayed.
- **b.** Holiday mode temperature can be set in User settings, 07.
- **c.** Press M again to exit Holiday mode.

Frost Protection Temperature

- **a.** The thermostat is turned OFF (Standby) mode by pressing . In OFF (Standby) mode the thermostat is set to Frost Protect temperature setting and will switch the output On if the measured temperature falls below the Frost protection temperature setting.
- **b.** Frost protect icon and current temperature will be displayed.

User Settings

- **a.** Press the M button once to illuminate the screen, and next press M for 6 seconds to enter the User setting mode. Press M for parameter selection and set the parameter range via  or . Complete all adjustments.
- **b.** To exit press , automatic exit after 20 seconds when no button is pressed.

No.	Parameter settings	Settings range	Default
01	Working mode	01: Manual 02: Schedule timer 5/2 day 03: Schedule timer 24hr	02
02	Heat control mode	01: On/offload compensation 02: On/off standard	01
03	Heat control start-up mode	01: Normal start control 02: Delayed start control 03: Optimised start control	01
04	Temperature limit high	Between low (05) and 35° C	35° C
05	Temperature limit low	Between 5° C and high (04)	5° C
06	Frost protect temperature	Between 5° C and 15° C	5° C
07	Holiday mode temperature	Between low (05) and high (04)	18° C
08	Timer display	01: 24hr 02: 12hr	24hr
09	Service due setup	Installer setting only	
10	RF Pairing (TP5001RF only)	00: RF pairing mode off 01: RF pairing mode on	00
11	Auto daylight saving	01: On 02: Off	01

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Documents / Resources



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References

- [User Manual](#)

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