

Easy User Guide

# TP5001

## Programmable Room Thermostat

BC337370422703en-010102 | 087R1003

www.danfoss.com

### 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 (Standby)                              |
| ↓ SET       | Set temperature                              |         | Timer and program operation / time and date setting |
|             | Heating active                               | M       | Mode change / option setting                        |
|             | Frost protect active                         | < >     | Temperature / option setting selectors              |

### What is a programmable room thermostat?

A programmable thermostat allows you to set 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

- Press , the screen will change to show the current year.
- Adjust using < or > to set the correct year. Press to accept. Repeat step b to set month, day, hour and minute 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.

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 any button once to illuminate the screen, if the screen is not illuminated already. Now, press for 3 seconds to display Mo. Tu. We. Th. Fr.

**P2:** Sa. Su. are now shown in the display.

#### P1, Event 1:

- Use < or > to select the start hour.
- Press to accept the setting.
- Use < or > to set the minute.
- Press to accept the setting.
- Use < or > to select the temperature.
- Press to accept the setting.

#### P2, Event 1:

- Use < or > to select the start hour
- Press to accept the setting.
- Use < or > to set the minute.
- Press to accept the setting.
- Use < or > to select the temperature.
- Press to accept the setting.

#### P1, Event 2-4:

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

#### P2, Event 2-4:

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

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

### Setting/Changing the Temperature

- Press < or > at any time to change the desired temperature value. SET is shown in the display.
- 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

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

### Frost Protection Temperature and Reset

- You can switch the thermostat in OFF(Standby) mode by alternately 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.
- and current temperature will be displayed.
- At this point, if is pressed for 10 seconds continuously, then the thermostat will reset.

### User Settings

- Press any button once to illuminate the screen, if the screen is not illuminated already. Now, 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.
- To exit press , automatic exit after 20 seconds when no button is pressed.

| No. | Parameter settings         | Settings range   | Default |
|-----|----------------------------|--|---------|
| 01  | Working mode               | 01: Manual<br>02: Schedule timer 5/2 day<br>03: Schedule timer 24hr                  | 02      |
| 02  | Heat control mode          | 01: On/off load compensation<br>02: On/off standard                                  | 01      |
| 03  | Heat control start-up mode | 01: Normal start control<br>02: Delayed start control<br>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<br>02: 12hr   | 24hr    |
| 09  | Service due setup          | Installer setting only   |         |
| 10  | RF Pairing (TP5001RF only) | 00: RF pairing mode off<br>01: RF pairing mode on                                    | 00      |
| 11  | Auto daylight saving       | 01: On<br>02: Off  | 01      |

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### Display and Navigation Details

Power on/off (Standby)

