

ENGINEERING  
TOMORROW

*Danfoss*

User Guide

**RET2001**

Digital Room Thermostat



[www.heating.danfoss.com](http://www.heating.danfoss.com)

## 1 LCD Overview

Symbols	Function description
00.00	Parameter number in setup
	Room temperature
00.0°C	Temperature indication
↓ SET	Set temperature
	Heating active

Symbols	Function description
	Frost protect active
	Away mode
	RF Status (RET2001RF only)
	Battery low indicator (RET2001B & RET2001RF only)



## 2 Buttons

Symbols	Function description
	Power on/off
M	Mode change / option setting
< >	Temperature / option setting selectors

## 3 Power ON/OFF

Turn the thermostat ON or OFF (Standby) by pressing .



## 4 Setting the Temperature

- Press < or > at any time to change the desired temperature value. **SET** is shown in the display.
- When releasing < or >, the display returns to showing the actual temperature.
- The adjustment step is 0.5 °C.

## 5 Select Away Mode

- Press **M** to enter Away mode and will be displayed.
- Away mode temperature can be set in parameter settings, P07.
- Press **M** again to exit Away mode.

## 6 Frost Protection Temperature and Reset

- You can switch the thermostat OFF (Standby) by alternately pressing . In OFF (Standby) mode, the thermostat is set to a Frost Protection temperature setting and will switch On only if the measured temperature falls below this temperature (5 °C by default).
- The frost protect icon and current temperature will be displayed.
- At this point, if the  button is pressed for 10 seconds Continuously then the thermostat will be reset.

## 7 Set Control Parameters

- Press M button for 6 seconds to enter the parameter setting mode. Press M for parameter selection and set the parameter range via < or >. Complete all adjustments.
- To exit press upper part of setting ring or wait 20 secs for automatic exit.

The digits indicate the set value as follows:

No.	Parameter settings	Settings range	Default
P02	Heat control mode	01: On/off load compensation 02: On/off standard	01
P04	Temperature limit high	Between low (P05) and 35 °C	35 °C
P05	Temperature limit low	Between 5 °C and high (P04)	5 °C
P06	Frost protect temperature	Between 5 °C and 15 °C	5 °C
P07	Away mode temperature	Between low (P05) and high (P04)	18 °C
P10	RF Pairing (RET2001RF only)	00: RF pairing mode off 01: RF pairing mode on	00

## 8 Error Messages

E1	Sensor failure
EE	EEPROM failure
Lo	Measured temperature below 0 °C
Hi	Measured temperature above 50 °C
E3	RF Pairing failed
E4	RF Signal lost



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