

User Guide

# RET2001OT

## Digital OpenTherm™ Room Thermostat



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

## 1      LCD Overview

Symbols	Function description
88:88	Parameter number in setup
	Room temperature
	Temperature indication
 SET	Set temperature

Symbols	Function description
	Heating active
	Frost protect active
	Away mode



## 2      Buttons

Symbols	Function description
	Power on/off
	Mode change / Option setting
< >	Up/down selectors

## 3      OpenTherm Control

The RET2001OT room thermostat varies the heat output of an OpenTherm compatible condensing boiler by modulating the boiler flame. This improves boiler efficiency and maintains economical condensing mode whenever possible.

Daily use is as easy as setting the thermostat to the required temperature, the advanced electronics and software within the thermostat establishes two-way communication with the boiler to ensure optimal operation.

## 4      Power ON/OFF

Turn the thermostat ON or OFF by pressing .

## 5      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.

## 6      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.

## 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 20secs for automatic exit.

The digits indicate the set value as follows:

No.	Parameter settings	Settings range	Default
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

## 8      Error Messages

E1	Sensor failure
EE	EEPROM failure
Lo	Measured temperature below 0 °C
Hi	Measured temperature above 50 °C

All relay output will be turned off in all cases.

**Danfoss A/S**

Heating Segment • [danfoss.com](http://danfoss.com) • +45 7488 2222 • E-Mail: [heating@danfoss.com](mailto:heating@danfoss.com)

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequent changes being necessary in specifications already agreed.  
All trademarks in this material are property of the respective companies. Danfoss and all Danfoss logotypes are trademarks of Danfoss A/S. All rights reserved.