



**RET2000 Electronic  
Digital Thermostat  
with LCD**



# Danfoss RET2000 Electronic Digital Thermostat with LCD Installation Guide

[Home](#) » [Danfoss](#) » Danfoss RET2000 Electronic Digital Thermostat with LCD Installation Guide 

## Contents

- [1 Danfoss RET2000 Electronic Digital Thermostat with LCD](#)
- [2 Specifications](#)
- [3 Installation Instructions](#)
- [4 FAQs](#)
- [5 Documents / Resources](#)
  - [5.1 References](#)



**Danfoss RET2000 Electronic Digital Thermostat with LCD**



For a large print version of these instructions please call Marketing on 0845 121 7400. Danfoss can accept no responsibility for possible errors in catalogs, brochures, and other printed material. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.


## Specifications

Specifications	RET2000MS	RET2000M	RET2000B
Operating Voltage	230Vac ±15%, 50/60Hz		2.5 - 3 VDC (2xAA batteries)
Output	230Vac	Volt free	
Setting temp. range	5-30°C (cooling 16-36°C)		
Operating temp. range	0-45°C		
Switch rating	3A (1) at 230Vac		
Switch type	1 x SPDT Type 1B		
Battery lifetime	N/A		Min. 2 years
IP rating	IP20		
On/off control	Yes		
Chrono-proportional control	Yes		
Operating modes	Heating/Cooling selectable		
Construction	EN 60730-2-9		
Control pollution situation	Degree 2		
Rated impulse voltage	2.5kV		
Ball pressure test	75°C		
Dimensions (mm)	H84 x W84 x D35		
Software Classification	A		

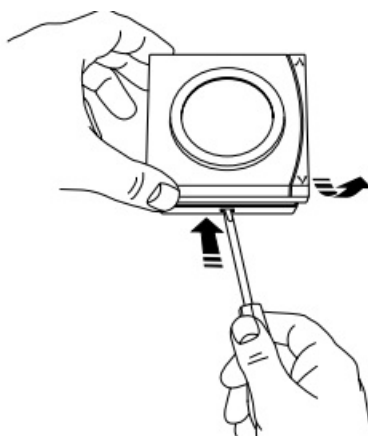
## Installation Instructions

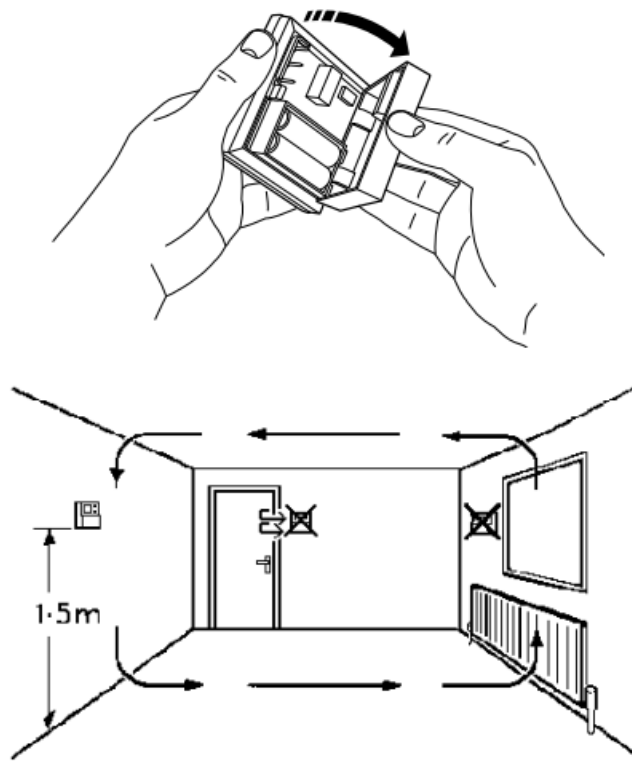
### ERP Class

- The products represented within this document are classified according to, and allow completion of, the Energy Related Product (ErP) Directive System Package fiche and the ErP system data label. ErP Labelling obligation is applicable from 26th September 2015.

ERP Class	Product Function and ErP Description	Additional efficiency gain
IV	<b>TPI Room Thermostat, for use with on/off output heaters</b> An electronic room thermostat that controls both thermostat cycle rate and in-cycle on/off ratio of the heater proportional to room temperature. TPI control strategy reduces mean water temperature, improves room temperature control accuracy and enhances system efficiency.	2%  

### Mounting





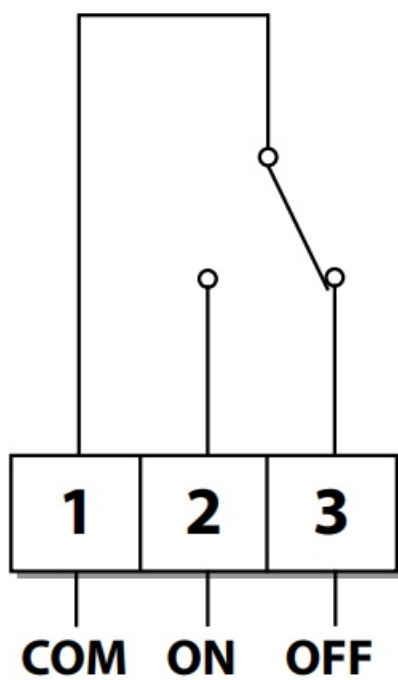
- Fix at a height of 1.5m approx from the floor, away from draughts or heat sources such as radiators, open fires or direct sunlight.

**Please Note:**

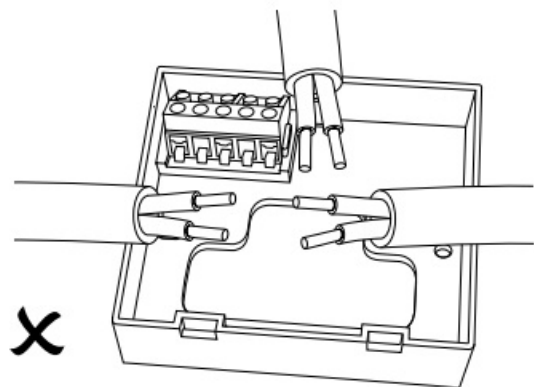
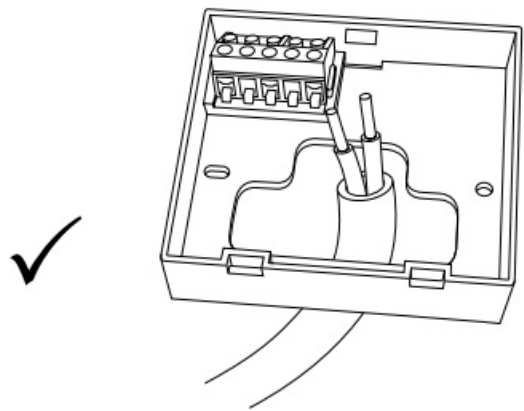
- This product should only be installed by a qualified electrician or competent heating installer and should be in accordance with the current edition of the IEEE wiring regulations.

**Wiring**

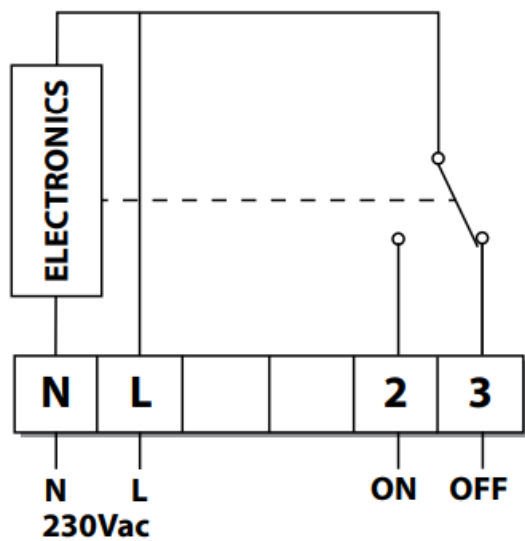
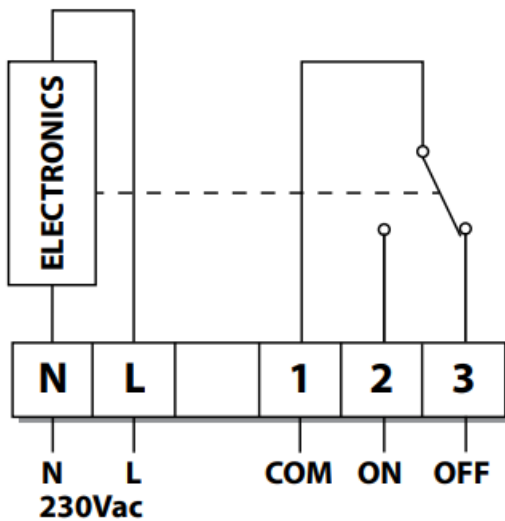
**RET2000B**



**RET2000M**

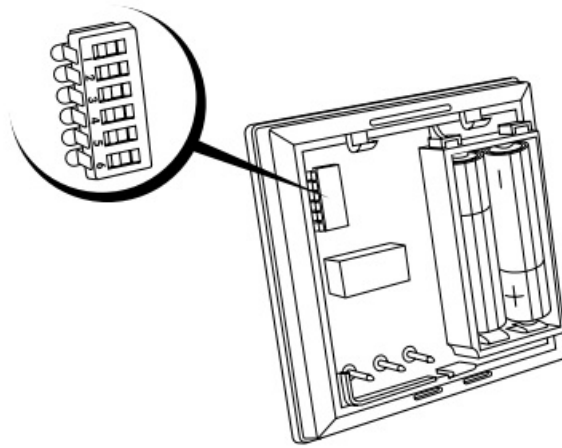


**RET2000MS**



### DIL switch settings

- Slide the DIL switches to the settings required.



## ON/OFF

- output switches ON when below set temperature and OFF when above. (Reverse when in cool mode)

## CHRONO

- energy saving feature which fires the boiler at regular intervals to maintain a set temperature, achieving a constant ambient environment for the user.
- use 6 or 12 Cycles for radiator systems
- use 3 Cycles for underfloor heating

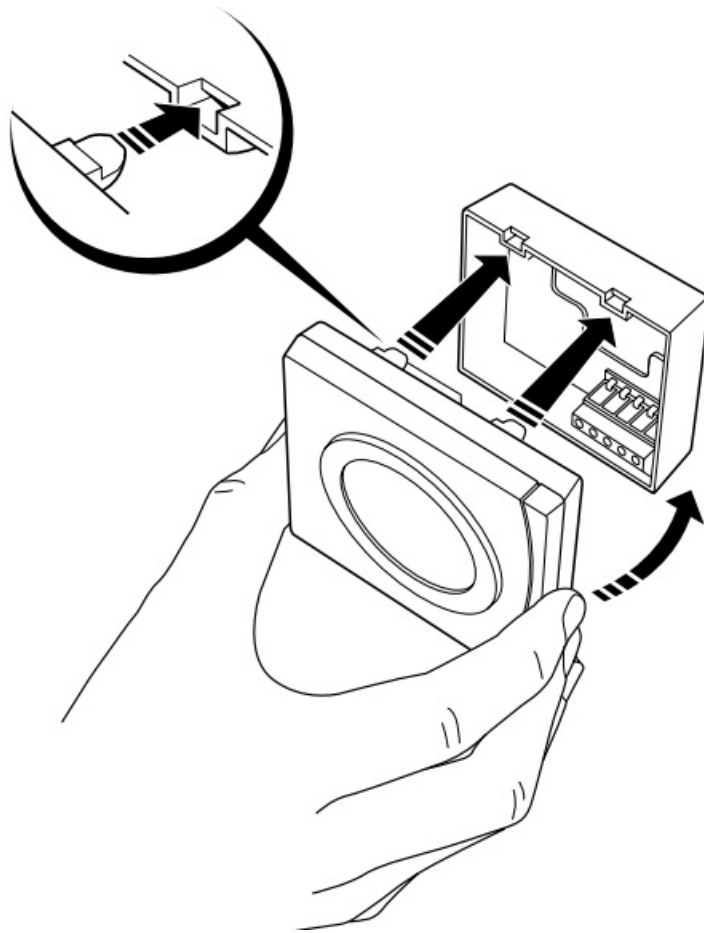
## Heating selection

CHRONO	<input type="checkbox"/>	ON/OFF
6 CYCLES	<input type="checkbox"/>	3/12 CYCLES
3 CYCLES	<input type="checkbox"/>	12 CYCLES
HEATING	<input type="checkbox"/>	COOLING
°C	<input type="checkbox"/>	°F
KEYS UNLOCKED	<input type="checkbox"/>	KEYS LOCKED

## Cooling selection

NO COMP DELAY	<input type="checkbox"/>	COMP DELAY
COMP DELAY 4 MINS	<input type="checkbox"/>	COMP DELAY 2 MINS
N/A	<input type="checkbox"/>	N/A
HEATING	<input type="checkbox"/>	COOLING
°C	<input type="checkbox"/>	°F
KEYS UNLOCKED	<input type="checkbox"/>	KEYS LOCKED

## Mounting



## Locking and Limiting

- The RET2000 has an Advance Programming Mode in order to set up temperature lock and limit settings.
- Press the V button when in heat mode or Λ button when in cool mode until the standby mode is reached.
- The Λ button or V button should then be released and then pressed and held for a further 5 seconds to enter the Advanced Programming Mode.
- To indicate that the unit is in Advanced Programming Mode the Standby Indicator will flash and the display will show the setting number alternating with the current value for that setting.
- To change the setting press either the Λ or V button.
- A simultaneous push and release of both buttons will scroll through the steps S1 to S3 and will save the current set value if altered.
- To exit Advanced Programming Mode and return to Standby Mode press and hold both buttons for more than 5 seconds.
- While in Advanced Programming Mode if no buttons are pressed for more than 2 minutes the unit will automatically return to Standby mode, and the value on the current setting will not be saved. • A simultaneous push and release of both buttons will scroll through the steps S1 to S3 and will save the current set value if altered.
- To exit Advanced Programming Mode and return to Standby Mode press and hold both buttons for more than 5 seconds.
- While in Advanced Programming Mode if no buttons are pressed for more than 2 minutes the unit will automatically return to Standby mode, and the value on the current setting will not be saved.

## S1 – Lower Temperature Limit

- This setting allows for a Lower Temperature Limit to be set. The Lower Limit can be set between 5°C (41°F) and 30°C (86°F) in Heat mode, or between 16°C (61°F) and 36°C (97°F) in Cool mode.
- Default – 5°C/41°F for Heat mode or 16°C/61°F for Cool mode.

## S2 – Upper Temperature Limit

- This setting allows for a Upper Temperature Limit to be set. The Upper Limit can be set between 5°C (41°F) and 30°C (86°F) in Heat mode, or between 16°C (61°F) and 36°C (97°F) in Cool mode. However, this will be limited by the Lower Temperature Limit set in S1 therefore the Upper Temperature Limit cannot be less than the Lower Temperature Limit.
- Default – 30°C/86°F for Heat mode or 36°C/97°F for Cool mode.

## S3 – Set Point Power-Up Temperature

- This setting defines the set point at power up when Button Lock is enabled on the DIL switch.
- This can be set between the Lower and Upper Temperature Limits set in S1 and S2.
- Default – 21°C/70°F for Heat mode or 24°C/75°F for Cool mode.

## FAQs


### Q: Can I install the RET2000 thermostat by myself?

A: The product should only be installed by a qualified electrician or competent heating installer following the IEEE wiring regulations.

### Q: What is the purpose of the DIL switches on the RET2000 thermostat?

A: The DIL switches allow you to customize settings such as ON/OFF behavior, energy-saving features, and cooling selections based on your preferences.

## Documents / Resources

 <p>RET2000 B/M/MS Electronic Digital Thermostat with LCD Installation Guide</p>	<p><a href="#">Danfoss RET2000 Electronic Digital Thermostat with LCD</a> [pdf] Installation Guide RET2000MS, RET2000M, RET2000B, RET2000 Electronic Digital Thermostat with LCD, RET2000, Electronic Digital Thermostat with LCD, Digital Thermostat with LCD, Thermostat with LCD, with LCD, LCD</p>
---	--

## References

- [User Manual](#)

### [Manuals+](#), [Privacy Policy](#)

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.