Manuals+ — User Manuals Simplified.

Danfoss RET2001M-V2 Programmable Room Thermostats Installation Guide

Contents

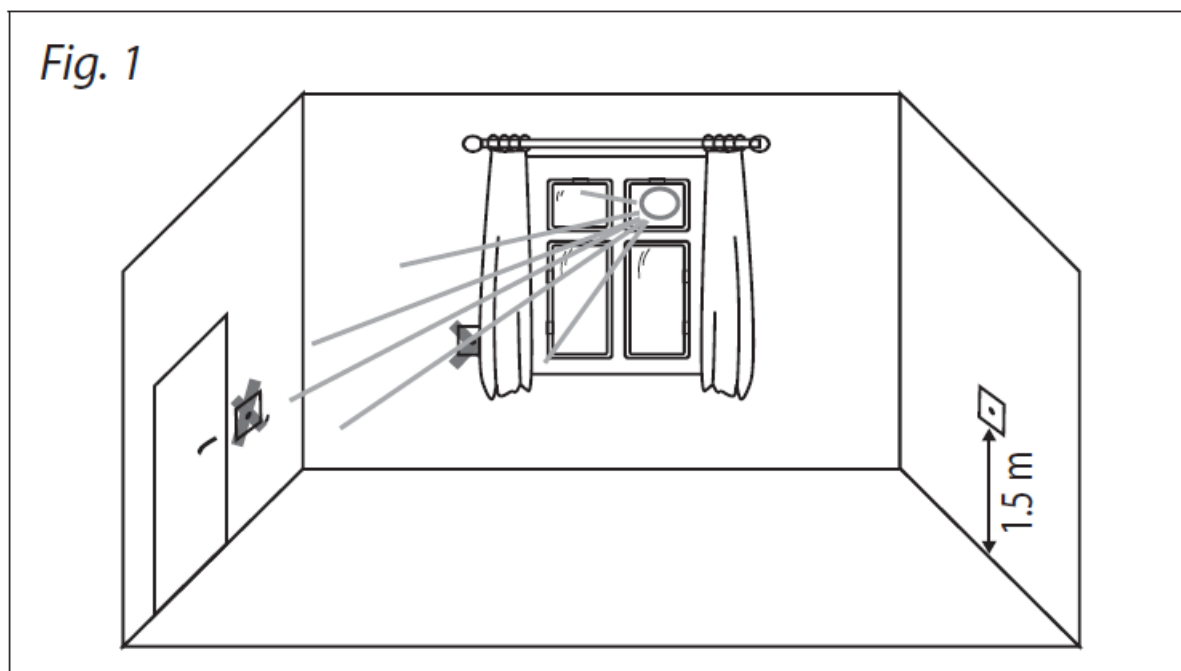**Danfoss RET2001M-V2 Programmable Room Thermostats**

Specifications

- **Operating**: Product is designed for continuous use
- **Operating Voltage**
- **Output:** Volt free
- **Switch rating:** 3 A (1) at 250 Vac
- **Switch type**: 1x SPDT Type 1B
- **Terminals:** 1 to 2.5 mm2 wires
- **IP rating: I**P30 (installed)
- **Load compensation control:** Yes
- **On**/**off control:** Yes
- **ErP class**: Class IV, efficiency gain 2%
- **Construction**: EN60730-2-9
- **Control pollution situation Degree**: 2
- **Rated impulse voltage:** 4 kV
- Ball pressure test
- **Dimensions**: H86 x W86 x D30
- Software classification
- Running and setting accuracy (for thermostats with build in timer)
- **RET2001M-V2:** Setting resolution 1 minute. Accuracy +/- 1 minute per month.
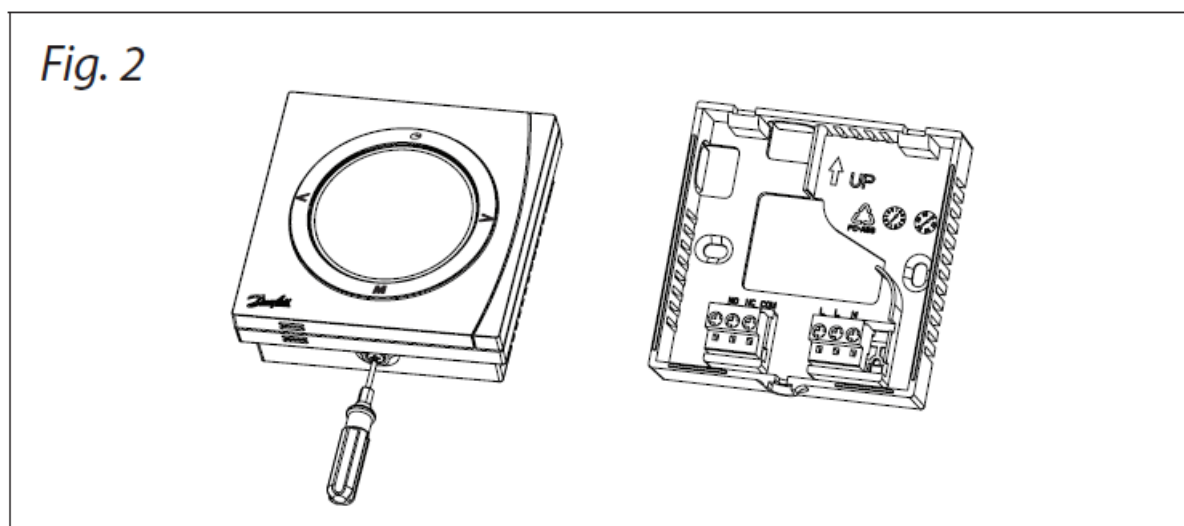- **TP5001M-V2:** Setting resolution 1 minute. Accuracy +/- 1 minute per month.

Installation Steps

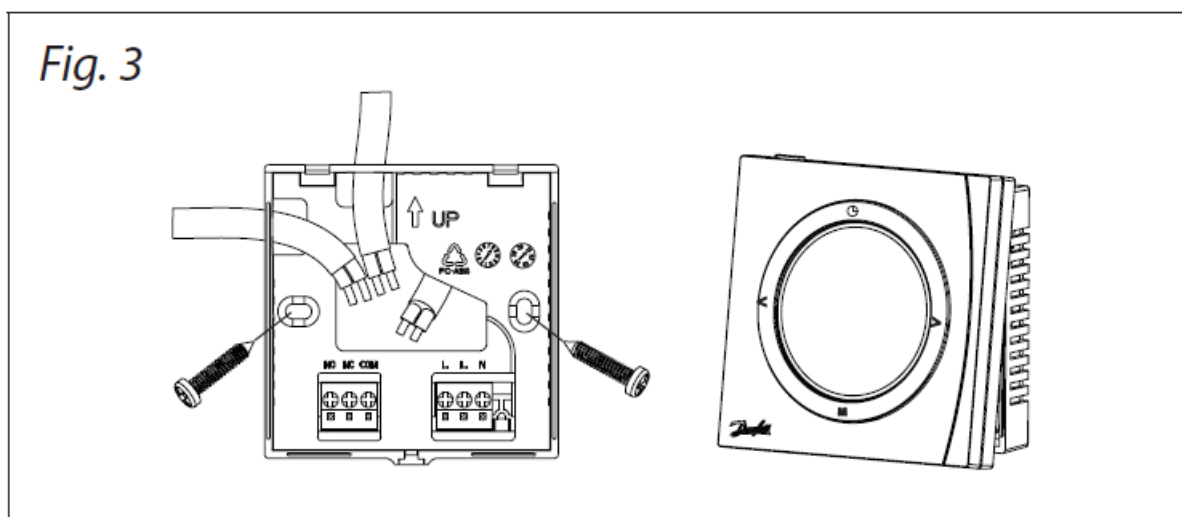- User Guide can be downloaded from: **heating.danfoss.com**.

1. Installation must be done by an authorized electrician.

2. The room thermostat should be installed at approx. 1.5 m above floor and where the effects of sunlight, draught or other heat sources (eg. TV's) are avoided, see fig. 1 on page 44.
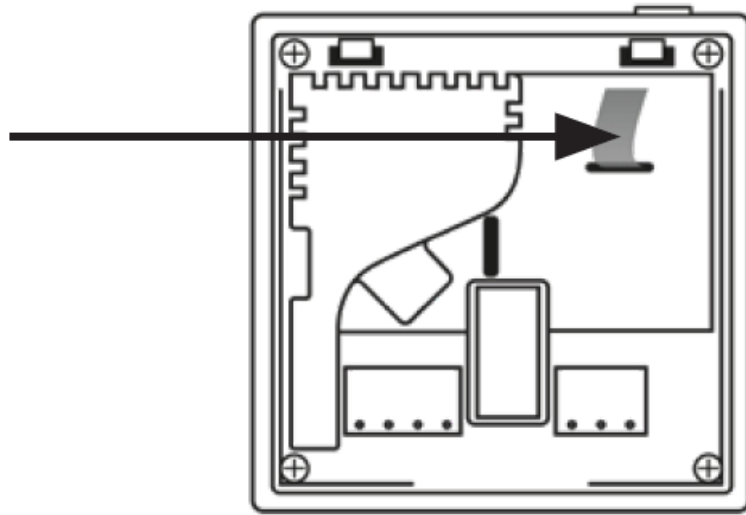

Fig. 1

3. First loosen lower retaining screw and carefully remove back plate, see fig. 2 on page 44.

Fig. 2

4. Mount back plate direct to wall or on wall box and wire according to application, see fig. 3 & 6 (pages 44 and 45).
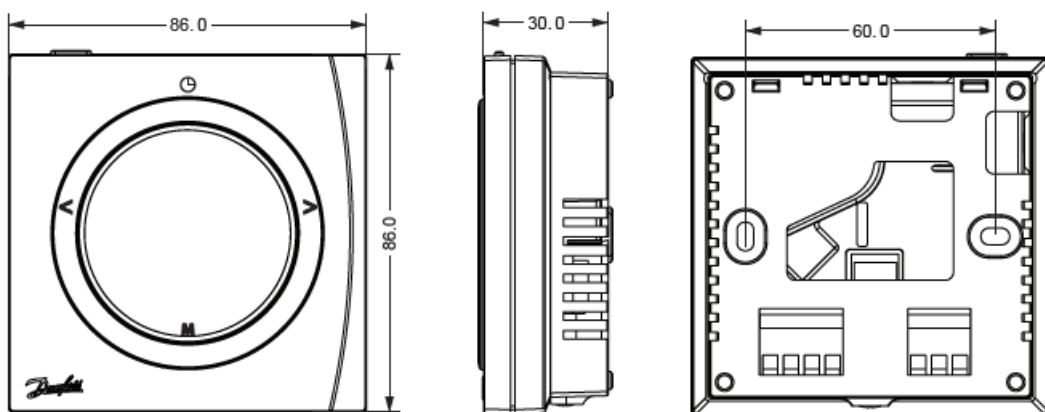

Fig. 3

5. Remove battery backup tab, see fig. 4 on page 45.

Remove battery backup tab

6. Locate hooks at top of front part into top of back plate and lower into position and tighten retaining screw.
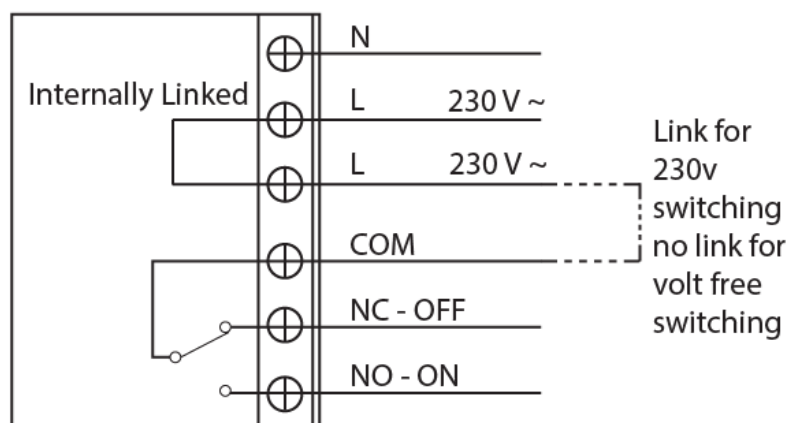

Fig. 5

Dimensions and Wiring

See fig. 5 for dimensions and fig. 6 for wiring diagram on page 45.

Fig. 6

Error codes

Display	Description
E1	Sensor Failure
EE	EEPROM Failure
Lo	Measured temperature below 0 °C
Hi	Measure temperature above 50 °C
E6	Real Time Clock Failure(TP5001M Only)

Technical Specifications

Specifications	RET2001M-V2 TP5001M-V2
Operating	Product is designed for continuous use
Operating Voltage	230 Vac ± 10 % 50/60 Hz
Output	Volt free
Setting temperature range	5 °C to 35 °C
Operating temperature range	0 °C to 40 °C
Switch rating	3 A (1) at 250 Vac
Switch type	1x SPDT Type 1B
Terminals	1 to 2.5 mm2 wires
IP rating	IP30 (installed)
Load compensation control	Yes
On/off control	Yes
ErP class	Class IV, efficiency gain 2 %
Construction	EN60730-2-9
Control pollution situation	Degree 2
Rated impulse voltage	4 kV
Ball pressure test	75 °C
Dimensions	H86 x W86 x D30

Specifications	RET2001M-V2 TP5001M-V2
Software classification	A
Running and setting accuracy (for thermostats with build in timer)	Setting resolution 1 minute. Accuracy +/- 1 minute per month.

Note

1. Both live(L) terminals are internally linked and available for ease of cable termination only.
2. If replacing a 230-volt room stat, a link between the live(L) and a common(COM) terminal is required.

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Documents / Resources

Danfoss RET2001M-V2 Programmable Room Thermostats [pdf] Installation Guide RET2001M-V2 Programmable Room Thermostats, RET2001M-V2, Programmable Room Thermostats, Room Thermostats, Thermostats

References

- ⊕ **Danfoss Climate Solutions for heating | Efficient solutions for superior comfort | Danfoss**
- ⊕ **Danfoss Salg Danmark | Danfoss**
- ⊕ **Danfoss Deutschland | Klima | Kälte | Heizung | Antriebe | Hydraulik | Danfoss**
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