



Installation Guide

# DEVIreg™ 130

Electronic Thermostat

[www.DEVI.com](http://www.DEVI.com)

**DEVI**® 



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## 1 Introduction

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DEVIreg™ 130 is an electronic thermostat to be installed directly on the wall. It is provided with a floor sensor to measure and control the desired floor temperature.

The thermostat has a button for adjusting the temperature setting with a scale from (1) 1 to 5 (each step corresponds to approximately 9°C). Furthermore, the thermostat has an LED indicator showing standby periods (green light) and heating periods (red light).

**More information on this product can also be found at:  
[devireg.devi.com](http://devireg.devi.com)**

## 1.1 Technical Specifications

Operation voltage	220-240V~, 50Hz
Power consumption	Max 5W
Relay: Resistive load Inductive load	Max 16A / 3680W @ 230V cos φ= 0.3 max 1A
Sensing units	NTC 15 kOhm at 25°C
Sensing values: 0°C 25°C 50°C	42 kOhm 15 kOhm 6 kOhm
Hysteresis	± 0.2°C
Ambient temperature	0 to +30°C
Frost protection temperature	5°C - ❄
Temperature range	(Ⓛ) 5-45°C
Cable specification max	1x4mm <sup>2</sup> or 2x2,5mm <sup>2</sup>
Ball pressure temperature	75°C
Pollution degree	Degree 2 (domestic use)
Type	1C
Storage temperature	-20 to +65°C

IP class	30
Protection class	Class II - 
Dimensions	82 x 82 x 36mm
Weight	90g

The product complies with the EN/IEC Standard "Automatic electrical controls for household and similar use":

- EN/IEC 60730-1 (general)
- EN/IEC 60730-2-9 (thermostat)

## 1.2 Safety Instructions

Make sure the mains supply to the thermostat is turned off before installation.

**IMPORTANT:** When the thermostat is used to control a floor heating element in connection with a wooden floor or similar material, always use a floor sensor and never set the maximum floor temperature to more than 35°C.

Please also note the following:

- The installation of the thermostat must be done by an authorized and qualified installer according to local regulations.
- The thermostat must be connected to a power supply via an all-pole disconnection switch.

- The sensor is to be considered as live voltage. Have this in mind if the sensor must be extended.
- Always connect the thermostat to continuous power supply.
- Do not expose the thermostat to moisture, water, dust, and excessive heat.

## 2 Mounting Instructions

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Please observe the following placement guidelines:



Place the thermostat at a suitable height on the wall (typically 80-170cm.).



In wet rooms, place the thermostat according to local regulation on IP classes.



Do not place the thermostat on the inner side of an exterior wall.

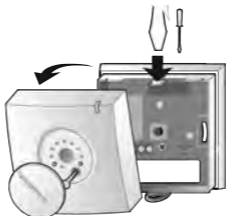


- Place the floor sensor in a conduit in an appropriate place where it is not exposed to sunlight or draft from door openings.
- Equally distant and  $>2\text{cm}$  from two heating cables.
- The conduit should be flush with the floor surface - countersink the conduit if necessary.
- Route the conduit to the connection box.
- The bending radius of the conduit must be min 50mm.

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**Follow the steps below to mount the thermostat:**

1. Open the thermostat:



- Lift off the button using a small screwdriver.
- Loosen the screw which holds the front.
- Push down the release tab at the top of the thermostat using a flat object while slowly pulling off the front cover.

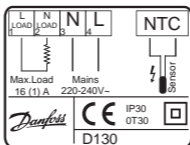


- Fasten the thermostat directly to the wall by driving the screws through the holes in each side of the thermostat.



**1** = Screw holes for fastening the thermostat.

- Connect the thermostat according to the connection diagram.



The screen of the heating cable must be connected to the earth conductor of the power supply cable by using a separate connector.

Note: Always install the floor sensor in a conduit in the floor.

4. Install the front cover and button in the reverse order of disassembly.
5. Turn on the power supply.

## 3 Settings

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### 3.1 Temperature Settings

#### How to change the minimum and maximum floor temperatures

1. Lift off the adjustment button using a thin screwdriver. (1)
2. Move the pins to the desired positions. (2 and 3)
3. Put the adjustment button back in place.



Please be aware of the following:

- The floor temperature is measured where the sensor is placed.
- The temperature of the bottom of a wooden floor can be up to 10 degrees higher than the top.

- Floor manufactures often specify the max temperature on the top surface of the floor (usually 27-28°C).
- By default, the maximum floor temperature is set to 35°C.
- Always use a floor sensor or a room + floor sensor combination to control floor heating. Without a floor sensor, the temperature control may be less accurate and you risk overheating the floor.

Thermal resistance [m <sup>2</sup> K/W]	Examples of flooring	Details	Approximate setting for 25°C floor temperature
0.05	8 mm HDF based laminate	> 800 kg/m <sup>3</sup>	28°C
0.10	14 mm beech parquet	650 - 800 kg/m <sup>3</sup>	31°C
0.13	22 mm solid oak plank	> 800 kg/m <sup>3</sup>	32°C
< 0.17	Max. carpet thickness suitable for floor heating	acc. to EN 1307	34°C
0.18	22 mm solid fir planks	450 - 650 kg/m <sup>3</sup>	35°C

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**4**      **Warranty**

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**5**      **Disposal Instruction**

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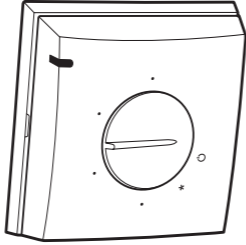
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**DEVIreg 130**  
140F1010

220-240V~  
50-60Hz~  
+5 to +45°C  
16A/3680W@230V~  
IP 30



Product Documentation

DK EL 7224215001  
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Designed in Denmark for Danfoss A/S

