



Installation Guide

# DEVIreg™ 330 (+60 °C to +160 °C)

## Electronic Thermostat



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## 1 Introduction

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DEVIreg™ 330 is an electronic thermostat to be installed in electric cabinets with DIN rail attachment. The thermostat must be installed via an all-pole disconnection switch. Either a wire sensor or an external air sensor must be used to measure and control the desired temperature.

The thermostat has a button to adjust the temperature setting, with a scale from +60 °C to +160 °C. An LED indicator shows standby periods (green light) and heating periods (red light).

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

## 1.1 Technical Specifications

Operation voltage	220-240 V~, 50-60 Hz
Standby power consumption	Max 0,25 W
Relay: Resistive load Inductive load	Max 16 A / 3680 W @ 230 V cos φ= 0,3 max1A
Sensing units	NTC 16,7 kOhm at 100 °C
Sensing values: 25 °C 50 °C 100 °C 120 °C 170 °C	300 kOhm 99,4 kOhm 16,7 kOhm 8,8 kOhm 2,35 kOhm
Hysteresis	± 0,4 °C
Ambient temperature	10 °C to +50 °C
Temperature range	+60 °C to +160 °C
Cable specification max	1x4 mm <sup>2</sup> or 2x2,5 mm <sup>2</sup>
Ball pressure temperature	75 °C
Pollution degree	2 (domestic use)
Type	1C
Storage temperature	-20 °C to +65 °C

IP class	20
Protection class	Class II 
Dimensions	86 x 36 x 58 mm
Weight	83 g

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.

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.

- If temperature wire sensor is applied on conductive surface it must be installed with additional electrical insulation.
- Caution: temperature sensor, heated surface and heating cable could have really high temperature.
- Sensor, conduit, fixing materials, etc. should be specified to be able to withstand temperatures applied by application.
- Caution: Temperature sensor with silicon cable should not be installed in concrete, aggressive and corrosive environment, etc.

## **2 Mounting Instructions**

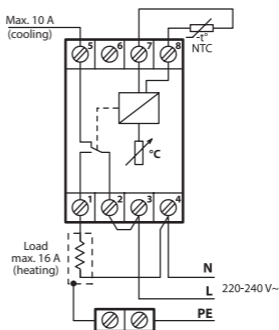
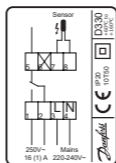
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Please observe the following placement guidelines:

- Install the thermostat in an electric cabinet with DIN rail attachment or a separate DIN attachment according to local regulation on IP classes.
- Do not place the thermostat in a way that it will be exposed to direct sunlight.

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

1. Click the thermostat on to the DIN rail attachment.
2. 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:** When you use the wire sensor for floor heating, always install the sensor in a conduit.

3. Turn on the power supply.

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## 3 Warranty

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### **A 2-year product warranty is valid for:**

- thermostats: DEVireg™ 330 (+60 °C to +160 °C).

Should you, against all expectations, experience a problem with your DEVI product, you will find that Danfoss offers DEVIwarranty valid from the **date of purchase** on the following conditions: During the warranty period Danfoss shall offer a new comparable product or repair the product if the product is found to be faulty by reason of defective design, materials or workmanship. The repair or replacement.

The decision to either repair or replace will be solely at the discretion of Danfoss. Danfoss shall not be liable for any consequential or incidental damages including, but not limited to, damages to property or extra utility expenses. No extension of the warranty period following repairs undertaken is granted.

The warranty shall be valid only if the WARRANTY CERTIFICATE is completed correctly and in accordance with the instructions, the fault is submitted to the installer or the seller without undue delay and proof of purchase is provided. Please note that the WARRANTY CERTIFICATE must be filled in, stamped and signed by the authorized installer performing the installation (Installation date must be indicated). After the installation is performed, store and keep the WARRANTY CERTIFICATE and purchase documents (invoice, receipt or similar) during the whole warranty period.

DEVIwarranty shall not cover any damage caused by incorrect conditions of use, incorrect installation or if installation has been carried out by non-authorized electricians. All work will be invoiced in full if Danfoss is required to inspect or repair faults that have arisen as a result of any of the above. The DEVIwarranty shall not extend to products which have not been paid in full. Danfoss will, at all times, provide a rapid and effective response to all complaints and inquiries from our customers.

The warranty explicitly excludes all claims exceeding the above conditions.

For full warranty text visit **[www.devi.com](http://www.devi.com)**.

**[devi.danfoss.com/en/warranty/](http://devi.danfoss.com/en/warranty/)**



## WARRANTY CERTIFICATE

The DEVI warranty is granted to:

Address \_\_\_\_\_

Stamp \_\_\_\_\_

Purchase date \_\_\_\_\_

Serial number of the product \_\_\_\_\_

Product \_\_\_\_\_

Art. No. \_\_\_\_\_

\*Connected output [W] \_\_\_\_\_

Installation Date  
& Signature \_\_\_\_\_

Connection Date  
& Signature \_\_\_\_\_

*\*Not mandatory*



## **4 Disposal Instruction**

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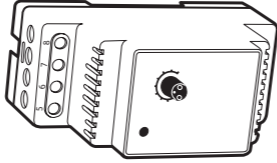
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# **DEVireg™ 330 (+60 °C to +160 °C)**

140F1073



220-240V~  
50-60Hz~  
+60 to +160 °C  
16A/3680W@230V~



Product Documentation

DK EL 7224215328  
SE EL 8581 188  
NO EL 5402664  
FI SSTL 353 1034



Designed in Denmark for Danfoss A/S



**EAC**

