

**Devireg™ 535**  
User manual

## *Congratulations with...*

... your DEVI floor heating system

Your property has been installed with a DEVI electric floor heating system. DEVI is Europe's leading floor heating manufacturer, with over 45 years experience. We are confident that you will be satisfied with your new system.

DEVI brings you...

An Invisible heating solution – A concealed heat source opens up greater opportunities for decorating and furnishing. Optimum comfort - DEVI brings you the luxury and comfort of a warm floor as well as a pleasant room temperature. Floor heating is the most comfortable type of heating because it is based on the fact that warmth travels upwards; pleasant warmth for your feet, body and head.

Low running costs – Thanks to the precise DEVI thermostat and the placement of the heating elements right under the floor surface the heat can be controlled optimally in order for you to have the comfort you desire with minimal energy use. Moreover electric floor heating is practically maintenance free, in total keeping down the running costs.

A long lasting solution – We back-up our floor heating solutions with a ten year guarantee on all our mats and cables, and a two year warranty on our thermostats. Practically speaking you can count on DEVI heating cables and mats lasting as long as the house in which they are installed – and that is without having to maintain them.

Hygiene – As DEVI produce floor heating systems only very gentle air is circulating, and the amount of travelling dust particles is reduced considerably; a great relief for people with allergies or asthma. There are also no dangerous fumes such as carbon monoxide generated by the system.

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# User's guide to Devireg™ 535

## Devireg™ 535 Introduction

Devireg™ 535 is a electronic timer temperature controller, specially designed for floor heating systems.

The Devireg™ 535, once set, automatically adjusts the heating to meet your comfort levels, regardless of changing weather conditions by measuring the floor temperature and combining it with the air temperature.

Even the programming of economy temperatures (i.e. lowering of temperature during the night and when you are out of the house) is very simple. Just tell the Devireg™ 535 your daily rhythm and choose your program.

It also features a minimum floor temp. setting, eg. for keeping your tile floors warm in summer as well.

## Display, icons and buttons



This is a safety switch, meaning all electrical supply to the thermostat is disconnected when turned off.

This is the standard display. The currently measured temperature is shown.

🌡️ is shown to symbolize that current temperature is displayed, i.e. unit working as a thermometer.

The thermostat is operated with the 3 buttons below the display.

- ▼ down
- ▲ up
- select

Two pinhole buttons are available for dedicated features

- 🔒 Childproof. Locks all buttons.
- 🕒 Settings.

## Increase / decrease temperaturesre

The display indicates:

Weekdays

Frost protection

Childproof

Settings

Actual temperature is displayed

Room temperature

Floor temperature

Day rhythm periods and comfort / economy temperature

Maximum / Minimum



### Increase / decrease preferred temperature.



Use the arrow buttons  $\blacktriangle$   $\blacktriangledown$  to either increase or decrease the temperature. The temperature is changed in increments of  $0.1^{\circ}\text{C}$ .

Notice that the temperature is flashing. Whenever something is flashing you are making changes.

When the preferred temperature is found you can save the setting in two ways

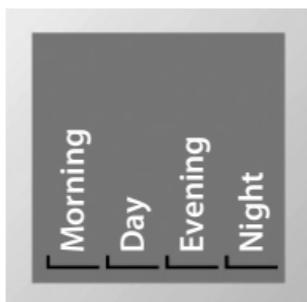
- Press  $\bullet$  to accept
- Leaving it flashing for 10 seconds.

If you try to increase the set point above the max. floor limit (p. 8) when thermostat is operating only on floor temperature, this icon will flash  $\blacktriangle$

# Timer function

## Using the timer function

The thermostat has a built-in timer function. A status bar in the bottom of the display gives an overview of timer status.



The day is divided into 4 time periods analogous to the typical day programming pattern:

- Morning
- Day
- Evening
- Night

These are indicated by the  as shown in the picture to the left. The start time of each of these can be configured.

The symbol can be:

 Empty: Indicating that the thermostat is in economy mode.

 Full: Indicating that the thermostat is in comfort mode.

## The 4 programs

4 different programs can be selected

Program 1	Manual mode. The temperature is maintained constantly 24 hours all week.
Program 2 	The temperature is lowered to economy temperature during the day and night period all week.  P2 is a day program for e.g. working days where the temperature is decreased during the middle of the day and at night. In the morning and evening comfort temperature is preferred.
Program 3 	The temperature is lowered to economy temperature during the night period all week.  P3 is a program for days at home where comfort temperature is preferred during the day and a savings temperature at night.
Program 4	A week program where: Mon – Fri: Program 2 and Sat – Sun: Program 3 P4 is a week program with Monday-Friday as workdays and Saturday-Sunday as days off. The top 7 bars indicate Monday through Sunday. On week days timer program 2 is used and in weekends timer program 3.

INT

Factory setting is Program 1. Manual mode.

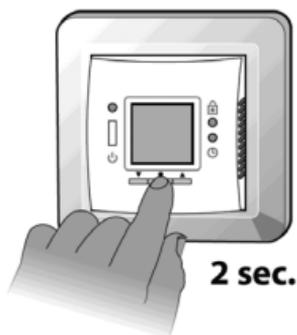
## Factory settings

The factory setting of the timer is:

	Floor sensor only	Room sensor only	Floor and Room sensor
Temperature:			
Comfort	25°C	21°C	21°C
Economy	5°C	17°C	17°C
Periods – Day rhythm:			
Morning	06:00-08:00		
Day	08:00-16:00		
Evening	16:00-22:30		
Night	22:30-06:00		

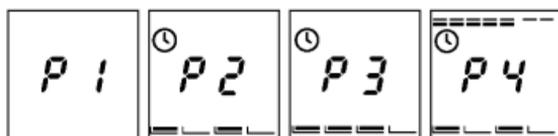
You can use the above as it is, or you can change the settings to match your day pattern. See the chapter Settings – setting the timer periods, page 18.

### Changing timer program



To change the program:  
(Remember, you need to set the time in advance, p. 12).

Keep the ● button pressed for 2 seconds.  
The actual program starts to flash.  
It is now possible to change the program by using the buttons ▲▼  
Press ● to accept



## Changing timer program



During the timer programs, P2, P3, and P4, the flashing  indicates the actual time period.

In program 4 the actual day is also shown.

Using the arrow buttons   in timer mode, is somewhat different from manual mode.

INT



If you increase/decrease the temperature in a savings period  this change only applies to this current period, not any future savings periods. You might use this if you are eg. working at home in timer program 4.

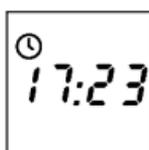


If you increase/decrease the temperature in a comfort period  this change applies to all future comfort periods, until changed again. From the perspective that you are fine tuning the comfort temperature.

# Settings overview

## Settings

All settings are under ⌚ the settings menu. Here you set the following:



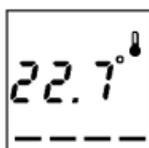
- Time



- Weekday



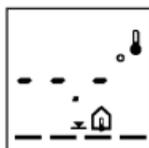
- Timer periods configuration  
(Morning, day, evening and night)



- Comfort temperature



- Savings temperature



- Min. floor temperature limit  
(Only when combination of room and floor sensor is installed).

## Changing the settings

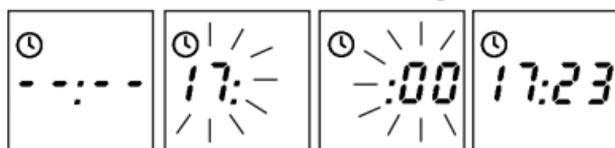


You enter the settings by pressing the ⌚ pinhole with a small screw driver, pencil, or needle, the display now changes from temperature to time display.

By using the arrow buttons ▲▼ you move one way or the other in the menu.

INT

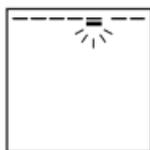
### Setting the time



By pressing the ● the hours start flashing, indicating you can change them with the arrow buttons ▲▼

Press the ● again to change the minutes.

**Battery Backup:** The current time and day is kept for 80 days if mains supply is off. All other settings are stored permanently. Initially mains supply the thermostat for 15 hours to fully charge the battery.



### Setting the weekday

By pressing the ● the weekday starts flashing, indicating you can change it with the arrow buttons ▲▼ Press the ● to accept

## Changing the settings

### Setting the timer periods

When programming the starting times of the 4 periods keep in mind that the thermostat will start heating/stop heating at the given time. Therefore some periods should start and end before, to compensate for the time it takes to heat up or down.

The first period bar  flashes indicating this is the morning period.



By pressing the ● the start time of the period starts flashing. You change it with the arrow buttons ▲▼ in increments of 15 minutes.

Press the ● to accept



The second period bar  flashes indicating this is the day period.

Setting it in the same way.



The third period bar  flashes indicating this is the evening period.

Setting it in the same way.



The fourth period bar  flashes indicating this is the night period.

Setting it in the same way.

**Note!** When setting the time periods you cannot step backward to the previous time period, until the last one is set. This is to ensure that the periods do not overlap.

## Changing the settings



### Setting the comfort temperature

By pressing the ● the preset comfort temperature starts flashing.

You change it with the arrow buttons ▲▼

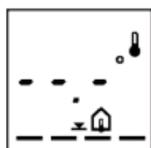
Press the ● to accept



### Setting the savings temperature

By pressing the ● the preset savings temperature starts flashing. You change it with the arrow buttons ▲▼

Press the ● to accept  
It can also be set to OFF.



### Setting the minimum floor temperature limit

If the thermostat is installed as a combination of room and floor sensor the minimum comfort temperature on the floor can be selected.

Setting this will overrule any other set point as you always want e.g. 20°C at the floor sensor

--.° means that the function is disabled.

By pressing the ● the preset minimum floor limit temperature starts flashing.

You change it with the arrow ▲▼

Press the ● to accept

## Special features

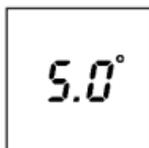


### Childproof mode

You disable all buttons in child proof mode by pressing the pinhole button below  with a small screw driver, pencil, or needle.

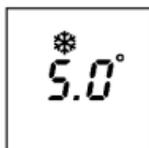
A lock now appears in the display and all other buttons are locked now.

To unlock press the lock symbol again



### Frost protection mode

To set the thermostat in frost protection mode, you hold down  until you reach the lowest setting. Now press  again to verify that you are not just changing the comfort or economy temperature, depending on the mode or timer period the thermostat is in.



The frost icon now appears and 5.0° flashes.

You accept the mode by

- Press  to accept
- Leaving it flashing for 10 seconds.



The thermostat is now in frost protected mode. Actual temperature is shown.

You leave frost protection mode by pressing  (0.5sec).

## Special features



### OFF mode

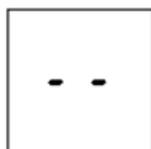
To set the thermostat in OFF mode, you hold down ▼ until you reach 5.0°. Now press ▼ again twice to verify that you are not just changing the comfort or economy temperature, depending on the mode or timer period the thermostat is in.

The display now shows OFF.

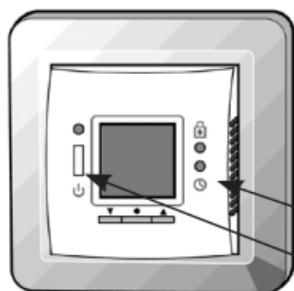
You accept the mode by

- Press ● to accept
- Leaving it flashing for 10 seconds.

OFF mode is used if you want to shut off the thermostat for a long period, but still keeping the time setting.



The thermostat is now in OFF mode. Two lines are shown in the display. You leave OFF mode by pressing ▲ (0.5sec).



### Restore timer default settings

To reset the thermostat to its timer defaults as shown on page 14, do the following:

1. Turn off the thermostat
2. While pressing the ⌚ pinhole button, turn on the thermostat. The LED will now flash red/green for 1 second indicating the thermostat will reset.

## Special features / Trouble shooting



### Switching displayed temperature

Depending on what mode the thermostat is installed as (floor, or a combination of floor and room) you can change which temperature is displayed.

If installed as a floor sensor system only, you can change the displayed temperature from floor sensor temperature to room sensor temperature, if you wish to use the thermostat as a thermometer. You change the display by pressing ▲ and ▼ at the same time for 2 seconds. The room sensor icon 🏠 is displayed.

You press them again to return to the default display.



If installed as a combination thermostat, by pressing ▲ and ▼ at the same time for 2 seconds, the temperature in the floor sensor is displayed for 2 minutes. The floor sensor icon 🏠 is displayed.

### Trouble shooting



#### Clock symbol flashing:

Time settings were lost due to power cut.

The thermostat resumes to manual mode.

## Trouble shooting

E 4

### **E4 flashing in display:**

Error code 4 – The thermostat has overheated and has switched off

Let the thermostat cool for period. Then switch the thermostat off and on. If the error persists contact your authorized installer.

E 5

### **E5 or E6 flashing in display:**

Error code 5 - Floor sensor short circuited.

If the error persists contact your authorized installer.

E 6

Error code 6 - Floor sensor disconnected

If the error persists contact your authorized installer.

### **Light Indications (LED)**

The Devireg™ 535 has a LED above the 2 pole safety switch.

The LED has five indications:

No light	The system is turned off.
Green light	System is standing by, set point temperature reached
Green light flashing	Floor sensor is defect
Red light	System is heating
Switching between red and green light	The floor temperature limit prevents the set point room temperature from being reached.

## *Disposal Instruction*

All electric or electronic equipment and enclosed batteries containing materials, components and substances that can be harmful to people's healthiness and to the environment, if the waste is not handled correctly.

All electric or electronic equipment and batteries is marked with the below crossed sign of a dustbin or garbage can. This sign symbolize electric or electronic equipment and batteries which are not allowed to be removed or disposed together with the unsorted waste, but have to be gathered individually.

Some batteries are also marked with a chemical symbol Hg (mercury), Cd (cadmium) or Pb (lead). These are very harmful substances and for this reason it is very important to collect these batteries.

As end user it is important for you to hand in your used batteries for recycling. In this way you actively take part to ensure that the batteries are reused according to the law and do not unnecessary impact on the environment.

All countries have established collecting points or other collecting arrangements, where citizens free of charge can deliver scraped electrical and electronic equipment together with batteries for recycling. More information can be obtained at your local authorities.





## *The 2 Year DEVI Warranty:*

You have purchased a DEVI heating system which we are sure will serve to improve the comfort and economy of your application.

DEVI provides superior electrical heating solutions for total climate control in and around homes and buildings. DEVI offers a complete product program with Deviflex™ heating cables or Devimat™ heating mats, Devireg™ thermostats, Devifast™ fixing strips and Devi Self-limiting heating cables combined with additional products completing the product program.

This 2 year warranty applies to all DEVI products.

Should you, against all expectations, experience a problem with your DEVI product, you will find that DEVI offers a 2 year warranty from the date of purchase on the following conditions:

During the warranty period DEVI shall offer a new comparable product or repair the product in case the product is found to be faulty by reason of defective design, materials or workmanship. Repair or replacement shall be carried out at DEVI's discretion. DEVI shall not be liable for any consequential or incidental damages including, but not limited to, damages to property or extra utility expenses.

This warranty shall only be valid on production of proof of purchase and must be submitted to the installer or seller without undue delay.

An extension of the warranty period following repairs undertaken under warranty cannot be granted.

The DEVI Warranty 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 DEVI is required to inspect or repair faults that have arisen as a result of any of the above. The DEVI Warranty shall not extend to equipment which has not been paid in full.

DEVI 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.

# 2 YEAR WARRANTY Warranty Certificate

The DEVI™ Guarantee is granted to:

Name:

---

Address:

---

City:

Country:

---

Telephone:

---

## Attention:

The Warranty Certificate must be completed correctly for the Warranty to be valid.  
Please read the Warranty conditions on the previous page.

Type of thermostat:

Material number:

---

Electrical installation by:

Date:

---

Suppliers Stamp  
Date / -







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