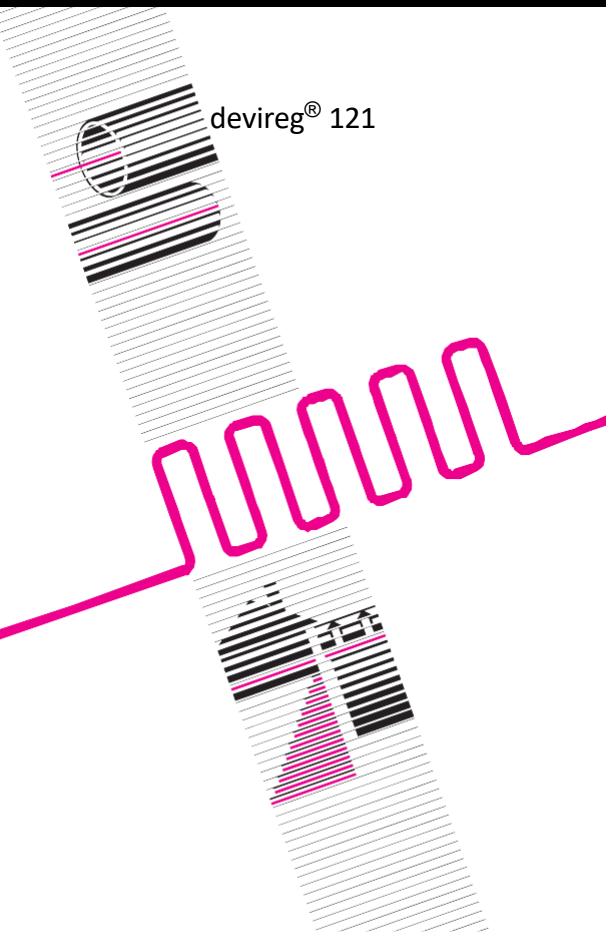


# Installation instructions

devireg<sup>®</sup> 121



#### Assembly rules:

1. The devireg® 121 thermostat is mounted directly on the wall using Ø 6 expansion plugs.
2. The devireg® 121 thermostat should be placed on the wall of the room at a height of approx. 1.5 m above the floor level in such a way that it is not exposed to direct impact of external heat sources and drafts. It must not be installed in damp rooms (e.g. bathrooms).
3. Dismantling the thermostat cover is done by removing the knob and then unscrewing the fastening screw underneath it (see Fig. 2).
4. When disassembling and assembling the thermostat, the switch must be in position. "0". After installation, check whether the switch moves easily.
5. Connections should be made in accordance with the diagram shown in Fig. 3.

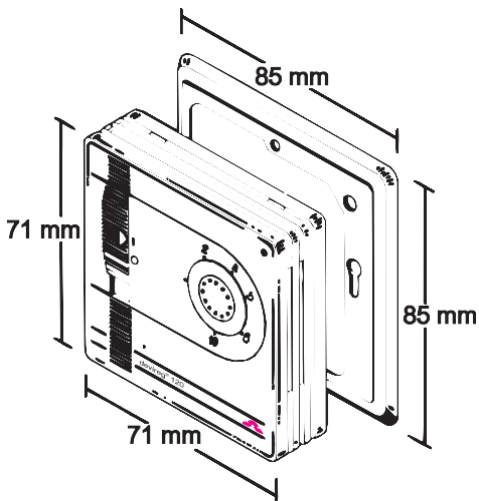
#### ATTENTION:

In electric heating systems, the protective conductor of the heating installation (cables or heating foils) should be connected to the protective conductor of the power supply installation.

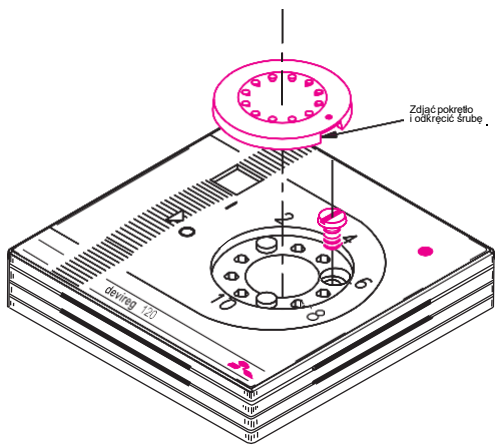
6. The entire installation should be performed by a licensed electrician.
7. Before turning on the heating cables laid in concrete, wait approximately 30 days until the concrete setting process is completed.

#### Night temperature reduction

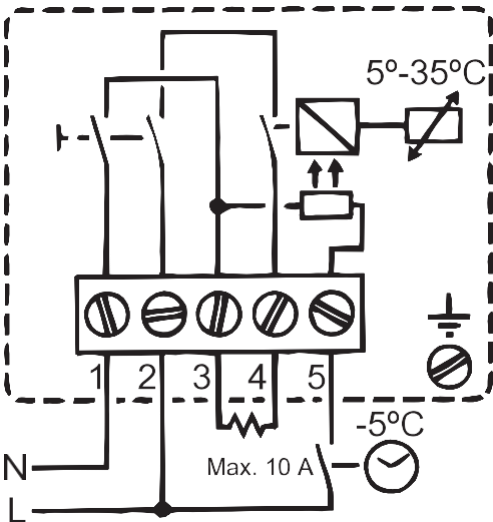
Night temperature reduction system (5°C reduction) is activated by an external contact (clock-controlled or manually) supplying 230 V voltage to terminal No. 5 (see Figure 3).



Rys. 1



Rys. 2



Rys. 3

Characteristics of the devireg® 121 thermoregulator devireg® 121 is an electronic thermostat with a built-in air sensor used to control the operation of underfloor heating systems.

The devireg® 121 thermostat is equipped with a night temperature reduction system activated by an externally connected clock.

#### Operation and maintenance

After completion of assembly and installation work the underfloor heating system should be equipped with a thermoregulator. Set the desired temperature on the thermoregulator by turning the temperature control knob. Then turn on the thermostat by flipping the switch in pos. "1".

The external parts of the thermostat should be cleaned periodically remove dust with a clean, dry cloth moistened with a mild cleaning agent.

NOTE: Never use solvents, gasoline, etc

## Methods of troubleshooting

### No heating

- Check the correctness of connections and selection of the electric heating system (max. current load 10 A). Measure the resistance of the heating cable and calculate the installed power.

$$P = \frac{U^2}{R} = \frac{52900}{R} \text{ W for voltage } 230 \text{ V~}$$

- Check the voltage on thermostat terminals 1 and 2. If there is no voltage, check the power supply installation.

- Check the voltage on thermostat terminals 3 and 4 (when the thermostat is activated). If there is no voltage, the thermostat is damaged

### Constant heating

- Replace the thermostat.

## Technical data

Supply voltage:	180 - 250 VAC; 50 Hz								
Max. working contact load:	250 VAC; 10 A								
Load current at $\cos \varphi = 0.3$ :	Max. 1 A								
Level of security:	IP 31								
Temperature control range:	+5°C - +35°C								
Sensor operating temperature range:	-10°C - +50°C								
Hysteresis:	0.5°C								
Temperature sensor type:	NTC								
Night temperature reduction:	5°C								
Characteristic sensor resistance values:	<table style="margin-left: auto; margin-right: auto;"> <tr> <td>-10°C</td> <td>66 kOhm</td> </tr> <tr> <td>0°C</td> <td>42 kOhm</td> </tr> <tr> <td>+25°C</td> <td>15 kOhm</td> </tr> <tr> <td>+50°C</td> <td>6 kOhm</td> </tr> </table>	-10°C	66 kOhm	0°C	42 kOhm	+25°C	15 kOhm	+50°C	6 kOhm
-10°C	66 kOhm								
0°C	42 kOhm								
+25°C	15 kOhm								
+50°C	6 kOhm								
LED indicator: It doesn't light up Lit red	System disabled. The heating is on, but the temperature set on the thermostat has not yet been reached.								
Lit green	The temperature set on the thermostat has been reached and the heating is turned off.								

## **Terms of warranty :**

You have purchased a product that we hope will improve the standard of your apartment and reduce its operating costs.

The deviheat® system, consisting of deviflex® heating cables or devimat® heating mat, devireg® thermostats and devifast assembly tape, comprehensively solves heating problems.

It is one of the most safe and reliable heating systems.

However, in the event of problems related to its operation, the company, which is a manufacturer belonging to the European Union, respects the manufacturer's obligations in accordance with Directive 85/374/CEE and related state laws.

Based on these legal regulations, it provides a 10-year warranty for deviflex® heating cables and the devimat® heating mat and a 2-year warranty for its other products. The warranty covers material defects and faults production of the offered goods.

The warranty remains valid provided that the Warranty Card on the reverse side has been correctly completed, a sketch of the heating cable arrangement has been made and that the damage has been made available to the company or its authorized Representative.

The warranty remains valid if the Warranty Card is completed in English or the official language of the country in which

the product was purchased and if it contains the appropriate ISO code for a given country located in the upper left corner of the title page of the assembly instructions. The manufacturer - the company - undertakes to repair the product free of charge or deliver a new product without incurring additional costs not directly related to its repair. In the case of damaged devireg® thermostats,

reserves the right to them

repairs as soon as possible, without charging the customer with any costs.

The warranty conditions do not cover installations performed by persons who do not have the appropriate qualifications in this field, damage resulting from inappropriate designs made by third parties, misuse, damage by third parties or incorrect installations and damage resulting therefrom. Expertise and repairs performed by or its representative not covered by the warranty terms are fully payable.

The warranty expires if the money for the complained product is refunded.

The company always strives to respond honestly, honestly and quickly to all customer inquiries and legitimate claims.

The above warranty conditions apply only to liability for the purchased product. In matters not regulated by this document, the provisions of the Civil Code shall apply.

