# Devireg 520 Thermostat used with floor sensor or

remote room sensor

Function: devireg® 520

is an electronic thermostat with a built-in two-pole switch 10 devireg\* 520 is used with a floor

sensor or with remote room sensor.

devireg® 520 is delivered with a 5°C night set-back element. NB! The night set-back element can be activated by applying voltage to clamp 5.

#### Installation:

- devireg<sup>®</sup> 520 can be mounted in a separate box or in a combinationsystem.
- 2. Detach the thermostat cover from the electronic part by first removing the setting button with a small screwdriver, and then removing the screw underneath, see fig. 1.
- The contact arm must be in position 0 when disassembling and assembling the thermostat. After reassembly the arm should be easily moved.
- If the floor sensor is used it must be placed in a 16 mm installation pipe which is sealed at the end.
- Wire connection according to circuit diagram.
- 6. Make sure that the setting button can be turned after remounting οf thermostat cover NRIItis possible to preset a fixed temperature range, see fig. 2.
- 7. Set the thermostat at the desired temperature. Fine adjustment is necessary after a certain period.
- 8. To avoid cracks in the concrete floor you must make sure that the floor is completely hardened before the heating system is switchedon.
- 9. 2-4days will pass from switching on the heating system until the temperature has stabilized at the set value.

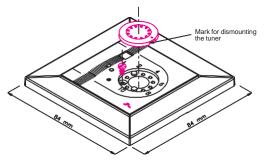


Fig. 1

When dismounting the thermostat cover, tip out the setting button with a screwdriver. Remove the screw under the cover.

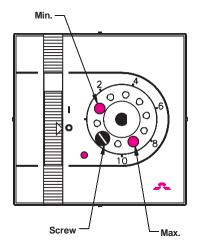


Fig. 2

The temperature range can be locked by moving the riders to the desired position.

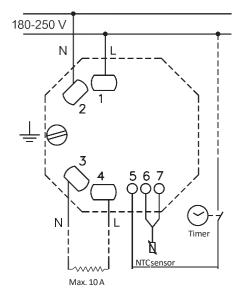


Fig. 3

## Trouble-shooting

Control of functioning: Ifheat is not turned on by activating the thermostat, check the residual current device (RCD) and fuses before contacting an authorized electrician.

Trouble-shooting chart: Reserved for the electrician!

### Control of functioning:

- Check mains voltage on clamps 1 and 2.
- Tighten up clamps 3 and 4. Measure the resistance in the heating cable and calculate the output:

$$P = \frac{U^2}{R} = \frac{52900}{R}$$
 W (at 230 V ~)

From the calculated output the heating cable type can be determined by looking it up in your alogue.

- If sensor wire clamps 6 and 7 are removed the indicator shouldturnredandthetermostatshouldbe switched on. If not, the thermostat is defect.
- If sensor wire clamps 6 and 7 are short-circuited, the indicator should turn green and the thermostat should be switched off.
   If not, the thermostat is defect.
- Measuring of sensor with ohmmeter should give a stable resistance compared to the ambient temperature - see technical data chart.
- When the voltage is disconnected the relay contact must be open and the diode switched off.

## Technical data +5ºCto+45°C Temperature range: Voltage: 180 - 250 V ~ 50 Hz Load: 250 V ~ 10 A Load: $\cos \varphi = 0.3 \text{ Max. } 1 \text{ A}$ 0.5ºC Hysteresis: Nightset-back: 5ºC -10ºC to +40°C Operating temperature: Moisture proof: IP 30 Sensing unit: NTC 15 kOhm at 25°C 66 kOhm 42 kOhm Sensing values: -10°C 0°C 15 kOhm +25°C +50°C 6 kOhm LED Indicator: Nolight The system is off. Heat is Red on but the preset

LED Indicator:

Nolight
Red
The system is off. Heat is on but the preset temperature is not reached yet.

Green
The preset temperature is reached and heat is off.