Instruction for installation and use

Electronic Thermostat with controller of Floor heating
for individual rooms

6011

Version 03/2005

Fig. 1

Anschluß Fig.1 L N PE

F F TA NL1 N L

NTC (L)

Heizmatte

Fig. 2

Geräteübersicht

Schalter Heizung ein / aus

LED für Heizung ein

Temperatureinstellung installation turn off main power source.

Safety Advice
Only an authorised electrician should install the thermostat. All safety regulations must be followed.

Attantion
In case of system failure mains voltage may be connected to sensor cable.
Assembly

80 mm
50 mm
80 mm
50 mm

Set3: remove cover open out from bottom left to top right

Set 2: Undo srew

Set 1: Carefully remove the adjustment dial with a screwdriver

Depth 42mm mounting dept in conduit box 25 mm

Specification

The room temperature controller with controller of floor temperature is used to regulate electronic floor-direct-heating
(for main area and marginal zone- additive heating).

The controlled process variable is room temperature.

The controller of temperature with remote sensor does check in floor the top temperature at heater mat.

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function

Room temperature (5° - 30°C) can be mechanically setting with rotation range and adjusted by electric of this controller.

An electronically realised, thermal feedback does provided for optimal control exactness.

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night reduction

An external time switch can be used to implement a timed operating mode, especially for night reduction. For this L conductor must be connected to the terminal marked TA, therefore the room temperature is reduced about 5°C by controller below the adjusted value by dial. Otherwise terminal TA should remain unconnected. Instead of time switch it is possible to use controller (6025 or 6020) with time operating with timing for night reduction for main controller . Therefore the controller without timing would be satellitecontroller. The terminal TA (from main controller) must be connected with terminal TA of satellitecontroller. If the main controller of reduced temperature the satellitecontroler is reduced about 5 °C. It is possible to connect
10 satellites on one main controller.

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function of floor temperature controller

The external temperature sensor does control the floor-temperature. For adjustment the limit temperature which doesn't exceed take of the cover. Than take a screwdriver and adjust the limit temperature at potentiometer of the top board from 20°C... 60°C

Setting the limit temperature

floor	floor covering Cadding	fitted carpeting
main range (max. 45°C)	35°C	40 °C
external (max. 60°C)	45°C	50°C

The sensor feed line is controlled electronically.

Short-circuit or interruption in the sensor line: The heating system is disconnected.
Attention: If the floor temperature sensor not connect the heating does not activate.

Limiting the temperature range

The temperature setting range can be mechanically limited by reducing the rotation range of the adjustment dial. To do this, proceed as follows:

Remove the adjustment dial carefully with a screwdriver.

Pull out the range limit stop pin from the housing cover using a long nose pliers. Rotate the wheels to limit the rotation angle as required.

Insert the stop pin an then refit the adjustment dial back in position.

-for this the mains voltage must not disconnect

Technical Data

Mains voltage: 230 V~+/- 10 %, 50 Hz
Breaking current: 12 (4) A
Switching capacity: 2,7 kW
Differential gap: 0,7 K
Temperature sensor: NTC, 2kΩ
Sensor cable length: 4 m
Room controller version: 5 to 30 °C
Floor controller version: 20 to 40°C
Ambient temperature rating: -10 to + 40°C
Connecting cable: max. 2,5 mm²
Energy class: IV = 2.0%

temp. °C	resistor
10	3,66
20	2,43
30	1,66
40	1,15
50	0,82

Assembly

- install ca. 1,5 m above the floor
- Avoid draughts from windows an doors
- Make sure the thermostat is not positioned under curtains or between shelves or other objects that block normal room circulation.
- Heat from sources other than the heater can adversely affect the thermostat's precision.

Assembly sensor
-The sensor must be placed separately in a protective tube at heating mat level between heating conductors.

Disconnect mains voltage! – assembly temperature controller

The thermostats are built in standard flush-type mounting boxes of 55-mm diameter. If the box is needed for any other wiring, a deep box is recommended.

- Remove the adjustment dial carefully with a screwdriver.
- after remove the screw take the coverage
  Attention: the jumper ring must be take over the wallpaper, controller with UP-screws must installed on box.
- pay attention by connection for fig. 21
- after connection take the cover of UP and screw on UP
- now take the adjustment dial of this part