HH260-AF Thermostat

Owner's Guide

Thank you for choosing HH 260-AF. This thermostat is designed for electrical underfloor heating. It has 4 different function positions: floor sensor, air sensor, air sensor with limiting of floor sensor for max. 30°C and power regulator.



HH 260 functions

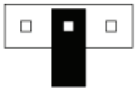
- Electronic thermostat with:
  - built-in air sensor
  - floor sensor
  - air sensor with limiter in the floor (for wooden floorings)
- Electronic power regulator

Thermostat HH260-AF is produced with 4 different function positions (the thermostat must not be connected to 230V supply voltage to change the functions).

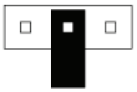
1) **Floor sensor (standard)**
Placing of jumper: jumper should cover the 2 left pins. If floor sensor doesn't work the thermostat will switch to the air sensor automatically.



2) **Air sensor**
Placing of jumper: jumper should cover the pin in the middle. If floor sensor is connected the thermostat will work according to the function 3: thermosat with air sensor and the limiter.



3) **Air sensor with limiting max. 30°C**
Placing of jumper: jumper should only cover the pin in the middle and **the floor sensor** should be connected.
In spite of the settings of air sensor it will control the thermostat: e.g. that floor won't be warmer than 27°C. The floor temperature can be limited between 20-30°C.



4) **Power regulator**
Placing of jumper: jumper should cover the 2 right pins.
Power regulator has a cycle for 30 min. The desired duty cycle can be set from 0 till 10 without step. I.e. that in position 3 the heating element will be connected in 9 min. and disconnected in 21 min.



Warranty

HandyHeat gives 3 years limited warranty.
This product is guaranteed against workmanship defects for a three-year period, following the initial date of purchase. During this period HandyHeat will repair or replace, at our option and without charge, any defective products which has been used under normal conditions. The warranty does not cover delivery costs and does not apply to products poorly installed or randomly damaged folowing installation. This warranty cancels and replaces any other manufacturers express or implied warranty as well as any other company commitment HandyHeat cannot be held liable for related or random damages following the installation of this product. The defective product as well as the purchase invoice must be returned to the place of purchase or mailed, prepaid and insured, to the nearest shipping address.

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DANSK VARMEKABEL A/S

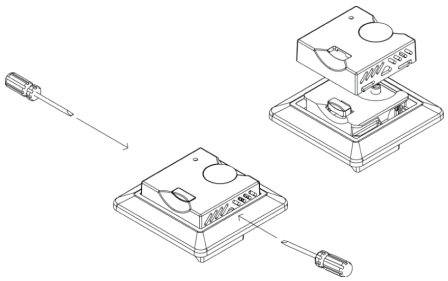
Lundagervej 102
DK-8722 Hedensted
Denmark

www.handyheat.net

1 Installation & Placing of the Thermostat

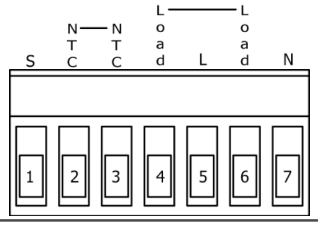
The thermostat can be installed in the standard wall box. The thermostar should be placed min. 1,2 m above the the floor. Avoid direct sun light and draught from the door/window.

Disassembly of the thermostat:
Peel back the turning wheel with a screwdriver. Use screwdriver to release the plastic lock in the inside housing of the thermostat. Peel back the front cover. See the picture below.



2 Connection of the Thermostat

Turn off the power to the heating system at the main power panel to avoid electrical shock. Installation should be carried out by a qualified electrician. All work must conform to the most recent national regulations for electric installations and wirings. This thermostat should be connected on a circuit with a RCD failure current tripping device.
The Thermostat must be installed on an inside wall. Avoid locations where there is an air draft, air outlet, top of staircase, behind door, direct sunlight, concealed chimneys or stove pipes.
The maximum load of the thermostat is max 16A / 3600 Watt at 230 VAC. If the load is higher it should be controlled by the contactor. The floor sensor is current conductive (230V).



Clamp 1: S-Night set-back is performed by connection of timer at clamp 1 & 5 that provides the set back of 3°C.
Clamps 2+3: NTC - floor sensor
Clamps 4+6: Max load 3600 Watt
Clamp 5: L 230 VAC
Clamp 7: N 230 VAC

3 Settings of the Thermostat

When ON/OFF button is pressed, the thermostat is activated. When the button is out, the thermostat is disabled.
When the floor heating is switched on for the first time, the temperature must not be more than 15-20°C.
In 2-3 days the thermostat should be calibrated. Pull out the turning wheel without releasing it from the spindle. Check with a thermometer and press the turning wheel back in the correct position.
If the heat is off for summer, make the same operation every autumn.

4 Technical specifications

Supply voltage:	230 VAC / 50 Hz
Max. Load:	16 A / 3600 Watt
Temp. setting range:	0 °C to 50°C
Switching differential:	0,5°C
Protection class:	IP21
Installation temperat.:	-20°C to 60°C
Power consumption:	0,5 Watt
Temperature intervals:	
Floor sensor:	+5°C to +40°C
Air sensor:	+5°C to +40°C
Floor sensor:	3 m, can be extended 10 m by PN 1,5 mm2
Sensor values:	
	0°C 29.1 Kohm
	10°C 18,6 Kohm
	20°C 12,2 Kohm
	25°C 10,0 Kohm
Switch:	2 pole L & N

Wiring from switch panel: Use 1,5 mm2 or 2,5 mm2 depending on power consumption.
Diode: Constant red light when relay is connected and current is switched on. Flashing red light by sensor error or when floor sensor is not connected. Green light when thermostat is in stand-by.

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