

HEATIT Z-WAVE

Principles for temperature regulation



REASON FOR SOFT WARE CHANGES FROM SOFT WARE 1.8

We have made some changes to the soft ware in the Heatit thermostat due to some misinterpretation/feedback from customers.

The thermostat has two internal temperature sensors and three algorithms used for compensation. The compensation is used so that the thermostat regulates the same way whether the load is 250W or 3600W. The internal temperature in the thermostat will then vary from 25°C to 70°C.

PRINCIPLES FOR REGULATION

The Heatit Z-Wave is designed for controlling electrical heating cables and electrical radiators/convectors. After you have set the temperature, the thermostat will use a hysteresis to regulate the temperature. The hysteresis is adjustable.

TEMPERATURE SHOWN IN DISPLAY

The temperature shown in the display is the actual temperature for floor sensor and the external room sensor. You are able to calibrate the sensor values. When using the internal room sensor, the temperature shown is the set point. Due to the internal heat buildup in the thermostat, we do not recommend to use this function. This makes the thermostat sensitive towards draft in the connection box.

If the thermostat is to be used with waterbased heating systems, you have to use an external sensor.

PRODUCT INFO Multireg Z-Wave SW 1.8

FEATURES

- Floor sensor
- External room sensor
- Temperature limiter
- Power regulator
- Z-Wave Plus chip, 500 series
- Weekly program
- Setback mode via gateway or pilot wire
- 7-segment LCD-screen
- Can be used in connection with different NTC-sensor
- Lock mode/child lock
- Backlight
- Calibration
- 8 associations

TECHNICAL DATA

Protocol:	Z-Wave, EU 868,42 MHz - other frequencies on request
Rated voltage:	230V 50/60Hz
Max load:	3600W (resistive load) 750W self-limiting heating cable
Max current:	16A
Power consumption:	1,5W
Power regulator:	Time cycle 0-30min
Min/max installation temp:	-20°C to 40°C
Min/max operating temp:	5°C to 40°C
Temperature intervals:	Floor sensor 5°C to 40°C External room sensor 5°C to 40°C
Hysteresis:	0,3°C to 3,0°C (default 0,5°C)
Sensor values:	0°C 29,1 kOhm 10°C 18,6 kOhm 15°C 15,1 kOhm 20°C 12,2 kOhm 25°C 10,0 kOhm
Switch:	Single-pole switch
IP class:	IP21

PLEASE READ THIS BEFORE INSTALLATION

This thermostat is tested and certified by Pepper One GmbH according to the requirements put forward by the Z-Wave Alliance. This is a Z-Wave Plus product with the 500 series chip. If the product does not work with your gateway, then the gateway manufacturer has not made an integration or implemented such a thermostat with their gateway. We do not give any guarantee towards integration.

SENSORS



5430108

FLOOR SENSOR Ø3MM
NTC 10 kOhm @ 25°C
Cable length 6 meters



5430109

FLOOR SENSOR Ø4MM
Standard sensor for Heatit
NTC 10 kOhm @ 25°C
Cable length 3 meters



5430128

EXTERNAL ROOM SENSOR
External room sensor with glass
front face. Wall mounted.
NTC 10 kOhm
Size: (LxWxH) 80x110mmx16mm



5430129

EXTERNAL ROOM SENSOR, MINI
NTC 10 kOhm @ 25°C
Size: (LxWxH) 40x60x47mm
Max. length of power supply
cable: 50 meters

ART. NO.	PRODUCT	COLOR	EAN-NO.	EU FREQUENCY	RU FREQUENCY
5430499	Heatit Z-Wave thermostat 3600W 16A	White RAL 9003	7071236011934	EU 868,4	RU 869
5430498	Heatit Z-Wave thermostat 3600W 16A	Black RAL 9011	7071236011927	EU 868,4	RU 869
5430311	Frame for Heatit	White RAL 9003	7071236011866		
5430312	Frame for Heatit	Black RAL 9011	7071236011873		
5430497	Cable for software update on thermostat				
5430108	Floor sensor Ø3mm 6m NTC 10 kOhm		7071236007739		
5430109	Floor sensor Ø4mm 3m NTC 10 kOhm		7071236005353		
5430128	External room sensor NTC 10 kOhm				
5430129	External room sensor, mini, NTC 10 kOhm		7071236008293		