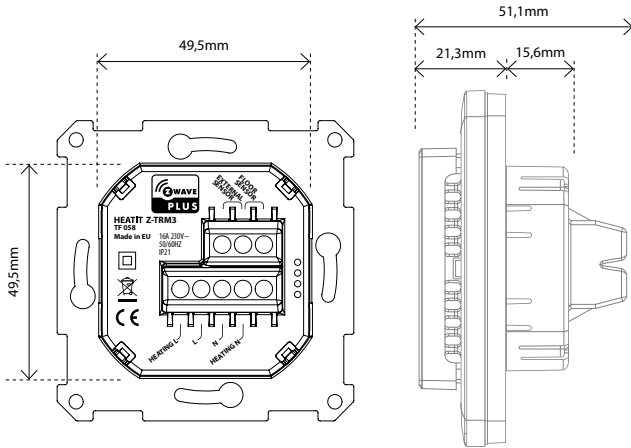


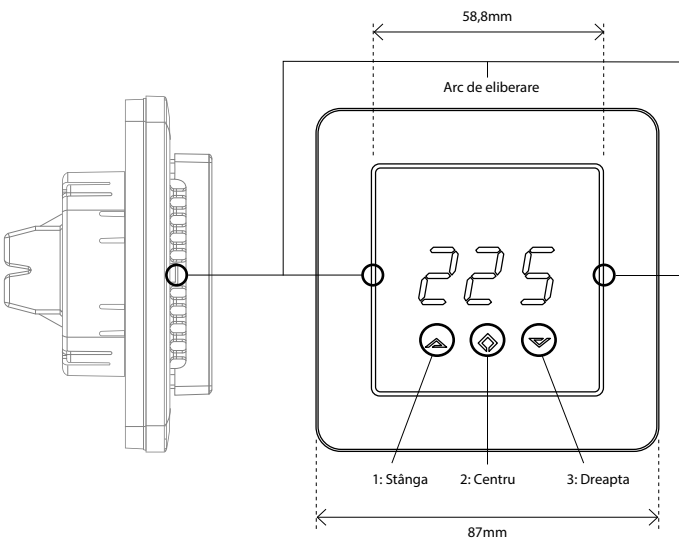
5. INSTALARE

~~TUBMBSFBUEFGDUVBER/OFMFDDOEDDBMEBUDPOGPNBUFUFDV~~
~~DPEVSMFOBACBMFOWHPSBOUEUFETUBMEFDFPOFDUBA~~
~~BMNFOUBSFBBSFAFBBSNPTUBUVMVUNQVTFMSFSNPTUBUVMV~~
~~BMNFOUBSFBBSNPTUBUVMVBSFEFDFPOFDUBA~~



5.1 CONTROL

~~6UNBAEF FYFNQMVPVY/CFMOANDVDVBQDSFTUBUDFQSE~~
~~TDPBUFDVHKBQBQDVMGSPHOQSOBQBSFBBSDVSPHFKFSBSF~~
~~BQBQDVMGSPBBSVMQPUGEDVNEFNPOUBUF~~



~~ROFDUBAECBMFMBBCPSOEBNPTUBUSUNVA~~
~~NNIBV NNGVODAREFTBSDO~~

Încalzire (N)	5	conexiune catod	Încalzire (N)	5	conexiune anod
N	1	FOUBSF(FVUSV)	230V		
L	1	FOUBSF	1	230V	
Încalzire (L)	1	OFYVFOFBCMVODMVF			
Senzor podea	1	50	NTC (10, 12, 15, 22, 33 or 47kΩ)		
		1	10	10kΩ	
Senzor extern			Tip NTC (10, 12, 15, 22, 33 or 47kΩ)		
			1	10	10kΩ

Apoi, poziționați termostatul și montați-l în cutia de din tencuială cu ajutorul a 2-4 șuruburi. Poziționați cadrul peste caseta încadrată, apoi apăsați cu atenție capacul frontal până când se fixează în poziție. Verificați dacă capacul frontal a fost fixat corect pe ambele părți. Capacul frontal trebuie să se potrivească acum ferm pe toate părțile.

Pentru a citi contorizarea puterii, sarcina trebuie să fie conectată atât la sistemul de încălzire L + N.

NOTĂ! Capacul superior trebuie instalat când termostatul este conectat la sursa principală de alimentare. Termostatul nu este un produs SELV. Toate componentele de tensiune trebuie considerate ca fiind 230VAC.

6. ADĂUGARE/ELIMINARE

Controlerul principal/gateway-ul are un mod de adăugare sau eliminare a dispozitivelor. Vă rugăm să consultați manualul controlerului principal cu privire la modul de setare a controlerului principal în modul de adăugare/eliminare. Dispozitivul poate fi adăugat sau eliminat din rețea numai dacă controlerul principal este în modul de adăugare/eliminare. Când dispozitivul este scos din rețea, ACESTA NU va reveni la setările din fabrică.

Există două moduri de a adăuga Heatit Z-TRM3 la o rețea Z-Wave.

6.1 METODA 1: STANDARD (MANUAL)

1. Apăsați pe Center (confirmare) timp de 10 secunde. Afișajul va indica OPRIT.
2. Apăsați Dreapta (jos) de 5 ori până când vedeți Con pe afișaj.
3. Porniți procesul de adăugare/eliminare a dispozitivului din controlerul principal.
4. Porniți modul de adăugare/eliminare din Heatit Z-TRM3 apăsând pe Centru (confirmare) timp de aproximativ 2 secunde.

Modul de adăugare/eliminare este indicat pe afișaj prin rotire Segmente LED pe afișaj. Aceasta durează până la expirarea timpului de 90 secunde sau până când modulul a fost adăugat/eliminat în/din rețea. Confirmarea va arăta Inc/ECL pe afișaj. Ieșiți din modul de programare selectând ESC din meniu. Termostatul dvs este acum gata de utilizare cu setările implicite.

NB! Atunci când termostatul este scos din poarta digitală de acces, parametrii nu sunt resetați. Pentru a reseta parametrii, consultați capitolul 7: "Factory Reset" (resetare din fabrică). Dacă adăugarea/eliminarea eșuează, va apărea Err (eroare). Efectuați un proces de "eliminarea dispozitiv" și încercați din nou. Dacă Err se afișează din nou, consultați capitolul 7: "Resetare la setările din fabrică".

6.2 METODA 2: SMARTSTART (AUTOMATIC)

Produsele activate SmartStart pot fi adăugate într-o rețea Z-Wave prin scanarea codului QR Z-Wave prezent pe produs cu un controler care oferă includerea SmartStart. Nu este necesară nicio altă acțiune, iar produsul SmartStart va fi adăugat automat în 10 minute de la pornire în apropierea rețelei.

Locațiile codului QR al undei Z pot fi găsite în capitolul 20 "Cod QR Z-Wave / DSK".

7. RESETARE LA SETĂRILE DIN FABRICĂ

Prin apăsarea butoanelor dreapta și Centru (jos și confirmare) timp de 20 secunde, termostatul va efectua o resetare completă din fabrică.

NB! Utilizați această procedură numai când controlerul principal/gateway-ul lipsește sau este inoperabil în alt mod.

Dispozitivul va afișa RES timp de 10 secunde în timp ce efectuează o resetare din fabrică. Când RES nu mai este afișat, termostatul a fost resetat.

7.1 PORNIRE

DUPĂ PRIMA PORNIRE A TERMOSTATULUI, TOȚI PARAMETRII VOR AVEA SETĂRI IMPLICITE.

8. PRINCIPII DE REGLEMENTARE

Utilizarea senzorului de podea/extern (Mod F, A2 or A2F)

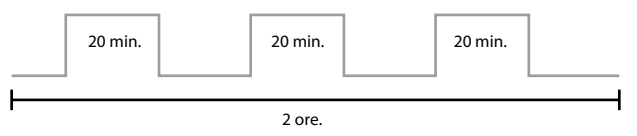
Termostatul utilizează citirile de temperatură obținute de la senzorul intern sau de la senzorul cu fir extern pentru a regla încălzirea. După ce ați ales o temperatură de referință, termostatul va utiliza un histerezis internă pentru a regla temperatura. Acest histerezis este reglabil.

A se vedea capitolul 5 „Instalare”.

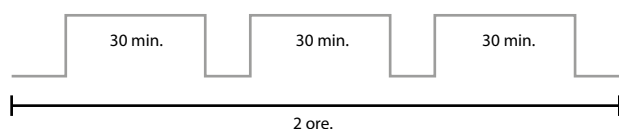
Utilizarea senzorului intern(A-mode/AF mode)

Dacă aveți un punct de referință de 20°C, termostatul va utiliza întreaga putere până când temperatura este de 19°C. Termostatul va începe apoi să regleze ieșirea de la 19°C cu un ciclu de funcționare de 75% până când atinge 19,25°C. Când temperatura a atins 19,5°C, termostatul va utiliza un ciclu de funcționare de 50%, până când atinge 20°C, apoi termostatul se oprește și repetă procesul. De exemplu, la un ciclu de funcționare de 75%, se va ACTIVA pentru un total de 90 minute și se va opri timp de 30 minute.

ciclu de lucru 50%



ciclu de lucru 75%



9. PROGRAMARE TERMOSTAT

Pentru a activa modul de programare, apăsați pe Centru (confirmare) timp de 10 secunde. Afișajul va indica OPRIT. Acum vă aflați în modul de programare. Pentru a derula în sus și în jos în meniu, utilizați butoanele 1 și 3 (stânga și la dreapta) pentru a naviga. Pentru a accesa submeniul, apăsați Center (Centru) (confirmare). Confirmați întotdeauna setarea apăsând pe Center (confirmare) timp de 2 secunde. STO va apărea pentru a indica setările salvate.

10. TEMPERATURA AFIȘATĂ PE DISPLAY

În mod implicit, temperatura indicată pe afișaj este valoarea de referință. Aceasta poate fi modificată cu parametrul 13: "Afișare temperatură". Puteți calibra valorile senzorului ± 4 grade utilizând parametrii 10 - 12.

11. STANDBY ȘI ECRAN PRINCIPAL

When the thermostat remains untouched for a while, it will automatically revert to the standby screen. The standby screen will by default show the setpoint temperature. By pressing any button once, you will see the measured temperature. By pressing the left or right (up or down) button one more time, you will change the setpoint.

Menu structure

OFF Turns the thermostat off.

Sensors:

CHOICE OF SENSORS

- F** Depending on your choice of sensors, the menu will change.
- SEn** Select the right Ohm value for your external/floor sensor. NTC type (10, 12, 15, 22, 33 or 47k Ω). Default 10k Ω .
- CAE** Calibration for external sensor.
- CAF** Calibration for floor sensor.
- CAr** Calibration for internal sensor.
- br1** The display brightness may be adjusted in this menu.
- Con** Activation of inclusion/exclusion mode.
- dIF** Hysteresis.
- ALo** Setting lowest allowed temperature (limitation). (Air sensor)
- AHI** Setting highest allowed temperature (limitation). (Air sensor)
- Flo** Setting lowest allowed temperature (limitation). (Floor sensor)
- FHI** Setting highest allowed temperature (limitation). (Floor sensor)
- A2L** Setting lowest allowed temperature (limitation). (A2 air sensor)
- A2H** Setting highest allowed temperature (limitation). (A2 air sensor)
- ESC** Escape – exit programming menu.

12. CHOICE OF SENSOR

The thermostat has a range of choices when it comes to sensors. To access the menu, press Center (confirm) for 10 seconds, then press Right (down) once. An A will appear on the display. Then press Center (confirm) again and choose modes while moving up and down with buttons Left or Right:

- F** Floor sensor
- A** Internal sensor
- AF** Internal sensor + Floor sensor
- A2** External room sensor
- A2F** External room sensor + Floor sensor

When you have chosen sensor mode, press the Center (confirm) button. If you choose F without having a floor sensor connected, Er4 will be shown in the display. If you choose A2 or A2F and there is no external sensor installed, Er5 will be displayed on the screen.

NOTE: Wooden floors require that a floor sensor is connected in order to limit the floor temperature to a maximum of 27°C (in accordance with specifications from most wooden floor manufacturers).

When using the thermostat is used in (AF or A2F) the floor limiter FHI is automatically set to 27°C. When using any other sensor type (A, F or A2F) the max temperatures is default 5°C minum and 40°C maximum.

13. SELECTING THE RIGHT OHM VALUE FOR YOUR EXTERNAL FLOOR SENSOR

The following values are available: NTC type (10, 12, 15, 22, 33 or 47k Ω). Default 10k Ω . Confirm with the Center (confirm) button. You can not combine two types of NTC sensors.

14. CALIBRATION

(CAr, CAF, CAE – Parameters 10, 11, 12)

Using Floor / External sensor (F, A2 or A2F-mode)

In this mode, you may adjust the displayed temperature. If the Temperature sensor is not calibrated properly, you can make minor changes to the temperature readout. You can calibrate the measured temperature by up to $\pm 4^{\circ}\text{C}$.

You may later adjust the temperature recorded by the sensor using in the menu structure or using parameters.

SENSOR TYPE	CALIBRATION FROM MENU STRUCTURE	PARAMETER
Internal Sensor	CAr	10
Floor Sensor	CAF	11
External Sensor	CAE	12

15. BRIGHTNESS

Use Left and Right (up and down) buttons to adjust the brightness level from 0 to 9. Confirm with the Center (confirm) button.

16. HYSTERESIS (dIF)

In this mode, you can make changes to the thermostat hysteresis. You may change the hysteresis from $0,3^{\circ}\text{C}$ up to max $3,0^{\circ}\text{C}$. Confirm with the Center (confirm) button. The Default setting is $0,5^{\circ}\text{C}$. When using water based heating, the recommended hysteresis is a minimum of $1,0^{\circ}\text{C}$.

This only applies when using a floor sensor or an external sensor.

17. MIN/MAX TEMPERATURE SETTINGS

Flo Min Floor temperature

FHI Max Floor temperature

ALo Min Air/room temperature

AHI Max Air/room temperature

Confirm with Center (confirm)

ESC Leaving programming mode.

Confirm with the Center (confirm) button.

When using the thermostat is used in (AF or A2F) the floor limiter FHI is automatically set to 27°C . When using any other sensor type (A, F or A2F) the max temperatures is default 5°C minum and 40°C maximum.

18. FAST FUNCTIONS FROM STANDBY / MAIN SCREEN

This is a list of some functions that you may use without entering the menu structure. From standby modus you may do the following:

18.1 DISPLAY ON/OFF (don/doF)

Activate by pressing the Left and Center (up and confirm) buttons for 10 seconds. The display light is temporarily activated if one of the buttons is pushed.

In case doF is activated, the screen will be blank (may be used if installed where people are sensitive to the display light). When touching the display, the screen lights up.

18.2 CHILD LOCK (LOC)

By pressing the Left and Right (up and down) buttons for 10 seconds, child lock will be activated, and no changes can be made. Trying to make changes causes the LOC text to appear on the display.

Child lock is deactivated by pressing Left and Right (up and down) buttons for 10 seconds. OPn will appear on the display.

19. ERROR CODES

Err Adding fail

See Chapter 6.1 "Add/Remove".

Er1 Internal error

Contact your local dealer.

Er2 Z-Wave error

Contact your local dealer.

Er3 Internal error

Contact your local dealer.

Er4 Floor sensor error

You have chosen F, AF or A2F sensor mode without having a floor sensor connected, or the sensor may be damaged.

Er5 External sensor error

You have chosen A2 or A2F, and there are no external sensors installed or the sensor may be damaged.

20. Z-WAVE QR-CODE / DSK

The QR-Code is needed when including a device using S2 security or SmartStart. The Z-Wave DSK can be found in the QR-Code which is located in 3 locations:

1. On the product box.
2. On the physical product, placed on the black plastic underneath the front.
3. On the PCB internally.

21. SECURITY

S2 security enhances Z-Wave Plus with an additional layer of AES 128-bit encryption of the wireless Z-Wave communication to prevent hacking and man-in-middle attacks on the home network. This device supports S2 and has a Z-Wave DSK QR-Code label that may be used when the module is added to the Z-Wave home network. The primary controller will ask for a 5-digit code, which can be found underneath the QR-Code. The primary controller will then ask you to confirm the rest of the code that is contained in the QR-Code.

22. NODE INFORMATION FRAME

The node information frame is the "business card" of a Z-Wave device. It contains information about the device type and its technical features. The add and remove procedure of the device is confirmed by sending out a node information frame. Besides this, it may be necessary for certain network operations to send out a node information frame.

23. ASSOCIATIONS

Z-Wave devices interact with other Z-Wave devices. The relationship between one device controlling another device is called an association. In order to control a subordinate device, the controlling device needs to maintain a list of devices that will receive controlling commands. These lists are called "Association Groups". They are always related to the specific event triggered (e.g., sensor reports). In case the event is triggered, all devices stored in the respective association group will receive a joint wireless command.

SETTING AND REMOVING ASSOCIATIONS

Associations may be assigned and removed via Z-Wave commands. Please refer to your primary controller/Z-Wave gateway for more information.

MULTICHANNEL SUPPORT

Heatit Z-TRM3 has support for the Multichannel Command Class. This allows the thermostat to be perceived as many devices by the primary controller, where each of the devices has association groups in order to send information to other Z-Wave devices. See the chapter concerning "Association Groups" for more information. Commands sent to each logical device will be interpreted according to the description in the section "Supporting Command Classes".

NO MULTICHANNEL SUPPORT

If the primary controller or the Z-Wave devices to be associated with Heatit Z-TRM3 do not support the Multichannel Command Class (Multichannel encapsulation), only the association groups in the root device are accessible. This device contains 5 association groups. See Chapter 23 concerning "Association Groups" for more information. The root device is the actual thermostat device.

ASSOCIATION GROUPS WITH MULTICHANNEL SUPPORT

When used in a system with Multichannel support:

THERMOSTAT DEVICE 1	THE MAIN THERMOSTAT DEVICE
Group 1	Lifeline. (Normally used by the Z-Wave Controller) Sends: -Thermostat Setpoint Reports -Thermostat Mode Reports -Thermostat Operating State -Meter Reports Max. nodes in group: 5
Group 2	Send Binary Switch Set commands representing the status of the internal relay. Max. nodes in group: 5
MULTILEVEL SENSOR DEVICE 2	DEVICE FOR INTERNAL ROOM TEMPERATURE SENSOR
Group 1	Lifeline Send Multilevel Sensor Reports. Max. nodes in group: 5
Group 2	Send Multilevel Sensor Reports. Max. nodes in group: 5
MULTILEVEL SENSOR DEVICE 3	DEVICE FOR EXTERNAL ROOM TEMPERATURE SENSOR
Group 1	Lifeline Send Multilevel Sensor Reports. Max. nodes in group: 5
Group 2	Send Multilevel Sensor Reports. Max. nodes in group: 5
MULTILEVEL SENSOR DEVICE 4	DEVICE FOR FLOOR SENSOR
Group 1	Lifeline Send Multilevel Sensor Reports. Max. nodes in group: 5
Group 2	Send Multilevel Sensor Reports. Max. nodes in group: 5

ASSOCIATION GROUPS WITHOUT MULTICHANNEL SUPPORT

When used in a system without Multi Channel support:

THERMOSTAT DEVICE	THE MAIN THERMOSTAT DEVICE
Group 1 Lifeline	Lifeline. (Normally used by the Z-Wave Controller) Sends: - Device Reset Notifications. - Thermostat Setpoint Reports - Thermostat Mode Reports - Thermostat Operating State - Basic Reports - Meter Reports Max. nodes in group: 5
Group 2 State of relay ON/OFF	Send Binary Switch Set commands representing the status of the internal relay. Max. nodes in group: 5
Group 3 Internal sensor	Send Multilevel Sensor Reports for internal temperature sensor. Max. nodes in group: 5
Group 4 External sensor	Send Multilevel Sensor Reports for external room temperature sensor. Max. nodes in group: 5
Group 5 Floor sensor	Send Multilevel Sensor Reports for floor sensor. Max. nodes in group: 5

24. CONFIGURATION PARAMETERS

Z-Wave products are supposed to work out of the box after inclusion. Some device configuration may, however, alter the functionality to better serve user needs or unlock further enhanced features.

Parameter 1, Parameter Size 1. Operation mode

VALUE	DESCRIPTION
0	Off
1	Heating mode (Default)

Parameter 2, Parameter Size 1. Sensor mode

VALUE	DESCRIPTION
0	F-mode, floor sensor mode
1	A-mode, internal room sensor mode (Default)
2	AF-mode, internal room sensor with floor limitation
3	A2-mode, external room sensor mode
4	A2F-mode, external sensor with floor limitation

Parameter 3, Parameter Size 1. Floor sensor type

VALUE	DESCRIPTION
0	10K NTC (Default)
1	12K NTC
2	15K NTC
3	22K NTC
4	33K NTC
5	47K NTC

Parameter 4, Parameter Size 1. Temperature control hysteresis (dIF)

VALUE	DESCRIPTION
3 to 30	0.3°C to 3.0°C. Default is 5 (0.5°C)

Parameter 5, Parameter Size 2. Floor minimum temperature limit (Flo)

VALUE	DESCRIPTION
50 to 400	5.0°C to 40.0°C. Default is 50 (5.0°C)

Parameter 6, Parameter Size 2. Floor maximum temperature limit (FHi)

VALUE	DESCRIPTION
50 to 400	5.0°C to 40.0°C. Default is 400 (40.0°C)

Parameter 7, Parameter Size 2. Air (A2) minimum temperature limit (ALo)

VALUE	DESCRIPTION
50 to 400	5.0°C to 40.0°C. Default is 50 (5.0°C)

Parameter 8, Parameter Size 2. Air (A2) maximum temperature limit (AHi)

VALUE	DESCRIPTION
50 to 400	5.0°C to 40.0°C. Default is 400 (40.0°C)

Parameter 9, Parameter Size 2. Heating mode setpoint

VALUE	DESCRIPTION
50 to 400	5.0°C to 40.0°C. Default is 210 (21.0°C)

Parameter 10, Parameter Size 1. Room sensor calibration (A)

NB. To set a negative value, use 256 and subtract the desired value.

VALUE	DESCRIPTION
-60 to 60	-6.0°C to 6.0°C. Default is 0 (0.0°C)

Parameter 11, Parameter Size 1. Floor sensor calibration

NB. To set a negative value, use 256 and subtract the desired value.

VALUE	DESCRIPTION
-60 to 60	-6.0°C to 6.0°C. Default is 0 (0.0°C)

Parameter 12, Parameter Size 1. External sensor calibration

NB. To set a negative value, use 256 and subtract the desired value.

VALUE	DESCRIPTION
-60 to 60	-6.0°C to 6.0°C. Default is 0 (0.0°C)

Parameter 13, Parameter Size 1. Temperature display

Selects which temperature is shown on the display. Refer to Chapter 11 "Standby and main screen".

VALUE	DESCRIPTION
0	Display setpoint temperature (Default)
1	Display measured temperature

Parameter 14, Parameter Size 1. Button brightness – dimmed state

Configure the brightness of the buttons in dimmed state.

VALUE	DESCRIPTION
0 to 100	0 to 100% (Default 50%)

Parameter 15, Parameter Size 1. Button brightness – active state

Configure the brightness of the buttons in active state

VALUE	DESCRIPTION
0 to 100	0 to 100% (Default 100%)

Parameter 16, Parameter Size 1. Display brightness – dimmed state

Configure the brightness of the display in dimmed state.

VALUE	DESCRIPTION
0 to 100	0 to 100% (Default 50%)

Parameter 17, Parameter Size 1. Display brightness – active state

Configure the brightness of the display, in active state.

VALUE	DESCRIPTION
0 to 100	0 to 100% (Default 100%)

Parameter 18, Parameter Size 2. Temperature report interval

Time interval between consecutive temperature reports. Temperature reports can also be sent as a result of polling.

VALUE	DESCRIPTION
30 to 32767	30 seconds to 32767 seconds. Default is 60 seconds

Parameter 19, Parameter Size 1. Temperature report hysteresis

The temperature report will be sent if there is a difference in temperature value from the previous value reported, defined in this parameter (hysteresis). Temperature reports can also be sent as a result of polling.

VALUE	DESCRIPTION
1 to 100	0.1°C to 10.0°C. Default is 10 (1.0°C)

Parameter 20, Parameter Size 2. Meter report interval

Time interval between consecutive meter reports. Meter reports can also be sent as a result of polling.

VALUE	DESCRIPTION
30 to 32767	30 seconds to 32767 seconds. Default is 90 seconds

Parameter 21, Parameter Size 1. Meter report delta value

Delta value in kWh between consecutive meter reports. Meter reports can also be sent as a result of polling.

VALUE	DESCRIPTION
0	Reporting meter based on change is disabled
0 to 255	A delta value of 0 to 25.5 kWh will result in a metering report. Default is 10 (1.0 kWh)

25. COMMAND CLASS SPECIFICATIONS**SUPPORTED COMMAND CLASSES**

The following table lists all Command Classes supported by the Z-Wave device. The device supports both S0, S2 Authenticated security and S2 Unauthenticated security.

	INSECURE INCLUSION	INSECURE ON SECURE INCLUSION	SECURE ON SECURE INCLUSION
Z-Wave Plus Information v2	Yes	Yes	
Association v2	Yes		Yes
Association Group Information v1	Yes		Yes
Multilevel Sensor v5	Yes		Yes
Multichannel Association v3	Yes		Yes
Multichannel v4	Yes		Yes
Transport Service v2	Yes	Yes	
Version v3	Yes		Yes
Manufacturer Specific v2	Yes		Yes
Device Reset Locally v1	Yes		Yes
Powerlevel v1	Yes		Yes
Security v1	Yes	Yes	
Security 2 v1	Yes	Yes	
Supervision v1	Yes	Yes	
Configuration v3	Yes		Yes
Firmware Update v5	Yes		Yes

	INSECURE INCLUSION	INSECURE ON SECURE INCLUSION	SECURE ON SECURE INCLUSION
Thermostat Setpoint v3	Yes		Yes
Thermostat Mode v3	Yes		Yes
Thermostat Operating State v1	Yes		Yes
Basic v2	Yes		Yes
Meter v3	Yes		Yes

SUPPORTED COMMAND CLASSES

Besides the mandatory command classes, Heatit Z-TRM3 has support for the following command classes:

Basic Command Class

A Basic command to the root endpoint or endpoint 1 will change the Thermostat Mode. Uses the following values:

0x00 = OFF (thermostat regulation is deactivated)

0x01 = Heating Mode (thermostat regulation is active)

Binary Switch Command Class

Sends Binary Switch commands to other devices when the internal relay is switched. It used to control other slave relay devices. Uses the following values:

0x00 = OFF

0xFF = ON

Thermostat Setpoint Command Class

When a Thermostat Setpoint Set command is received by the root device, it sets the chosen setpoint for heating mode.

Thermostat Mode

It is possible to change the operating mode of the thermostat by sending a Thermostat Mode Set command. The accessible operating modes are:

0x00 = OFF (thermostat regulation is deactivated)

0x01 = Heating Mode (thermostat regulation is active)

Thermostat Operating State

The thermostat reports the operating state of the internal relay using this command class.

0x00 = Idle (relay is turned OFF)

0x01 = Heating (relay is turned ON)

Meter Command Class

The thermostat supports Meter Command Class Get, and the thermostat will only respond on supported electric meter scales: kWh (accumulated), Watt (instant) and Volt (instant). The thermostat will report when asked:

Rate import: Import (0x01)

Meter type: Electric meter (0x01)

Precision: 1 decimal (0x01)

PRECISION (VALUE)	SCALE SUPPORTED (VALUE)	SIZE
1 decimal (0x01)	kWh (0x01)	4
2 decimals (0x01)	W (0x02)	4
1 decimal	V (0x04)	2

THERMOSTAT DEVICE 1

Supported Command Classes Association (version 2)

Z-Wave Plus Information (version 2)

Association (version 2)

Association Group Information (version 3)

Multichannel Association (version 3)

Supervision (version 1)

Security (version 1)

Security 2 (version 1)

Thermostat Setpoint (version 3)

Thermostat Mode (version 3)

Thermostat Operating State (version 1)

Controlled Command Classes

Switch Binary (version 1)

Meter (version 3)

MULTILEVEL SENSOR DEVICE 2

Supported Command Classes

Z-Wave Plus Information (version 2)

Association (version 2)

Association Group Information (version 3)

Multichannel Association (version 3)

Supervision (version 1)

Security (version 1)

Security 2 (version 1)

Multilevel Sensor (version 5)

Controlled Command Classes

Multilevel Sensor (version 5)

MULTILEVEL SENSOR DEVICE 3

Supported Command Classes

Z-Wave Plus Information (version 2)

Association (version 2)

Association Group Information (version 3)

Multichannel Association (version 3)

Supervision (version 1)

Security (version 1)

Security 2 (version 1)

Multilevel Sensor (version 5)

Controlled Command Classes

Multilevel Sensor (version 5)

MULTILEVEL SENSOR DEVICE 4

Supported Command Classes

Z-Wave Plus Information (version 2)

Association (version 2)

Association Group Information (version 3)

Multichannel Association (version 3)

Supervision (version 1)

Security (version 1)

Security 2 (version 1)

Multilevel Sensor (version 5)

Controlled Command Classes

Multilevel Sensor (version 5)

PRODUCT INFO HEATIT Z-TRM3

FUNCTIONS

- Floor sensor
- Internal room sensor
- External room sensor (connected by cable)
- Temperature limiter
- SmartStart
- Weekly program/setback via gateway
- Supports encryption mode: S0, S2 Authenticated Class, S2 Unauthenticated Class
- Temperature read out in gateway
- Firmware update (OTA)
- Power metering
- Relay status LED
- Single pole switch
- Lock mode/child lock
- Calibration
- 5 associations

This product is a security-enabled Z-Wave Plus product with encryption. The product must be used with a security-enabled Z-Wave Controller in order to fully utilize the product.

TECHNICAL DATA

Protocol	Z-Wave - 868,4MHz
Chip	Z-Wave 500 chip
Rated voltage	230V 50/60Hz
Max load	3600W (resistive load) 750W self-limiting heating cable
Max current	16A
Power consumption	<2,0W
Ambient temperature	0°C to 40°C (during operation)
Temperature range	5°C to 40°C
Hysteresis	0,3°C to 3,0°C (default 0,5°C)
Compatible with NTC sensors with values	10, 12, 15, 22, 33 and 47 kΩ @ 25°C
IP Code	IP 21
Approvals	Z-Wave Plus, CE, EN 60730-1, EN 60730-2-9, EMC 2014/30EU, RoHS 2011/65/EU, LVD 2014/35/EU

Approved for use in bathrooms.

TERMINAL

Use 1,5mm² or 2,5mm² according to load.

MAINTENANCE

The product is maintenance-free, but must not be covered.

ART. NO.	PRODUCT	COLOR	Z-WAVE FREQUENCY
54 305 99	Heatit Z-TRM3 thermostat 3600W 16A	White RAL 9003	EU 868,4MHz
54 305 98	Heatit Z-TRM3 thermostat 3600W 16A	Black RAL 9011	EU 868,4MHz
54 304 46	Plastic kit for Heatit (front and frame)	Black RAL 9011	
99 305 60	Heatit Z-TRM3 thermostat 3600W 16A	White RAL 9003	RU 869,0MHz
99 305 51	Heatit Z-TRM3 thermostat 3600W 16A	White RAL 9003	AUS 921,4MHz



Heatit Controls AB can not be held liable for typographical errors, other errors or omissions in our information.

Product specifications may change without further notice.

All electrical installations must be carried out by a licensed electrician.

The product must be installed in accordance with national building codes and our installers manual.