HEATIT Z-TRM7 BLACK MATT

Z-Wave thermostat 3600W 16A 868.4 MHz

Art.no	5430572
GTIN	7071236019794

Smart thermostat. Heatit Z-TRM7 is an electronic thermostat designed for electrical heating and water based heating control. The thermostat can be controlled through your Z-Wave® network, or via the buttons on the front of the thermostat. The thermostat features a user-friendly interface, complies with the Eco-Design directive and has an easy-to-read LED display.

Heatit Z-TRM7 has 3 modes; Heat - Cool and Eco.

The thermostat fits in standard European junction boxes and may be used with most System 55 frames. It has a sturdy metal frame for secure fastening in the junction box. The thermostat has one built-in room temperature sensor. Two additional external temperature sensors may also be connected.

Heatit Z-TRM7 has active power metering, and it gives you the real time information about the power consumption. It also allows you to set the power metering value manually in case of connection with a contactor.

The device is equipped with ZeroX™ technology, which ensures the relay switches at 0V when turning on and off. This technology significantly extends the thermostat's lifespan.

The thermostat can be set up with multiple associations and can be used as a master thermostat. It can control up to 10 thermostats and 10 external relays e.g wall plugs.

Electrical Load Compatibility
The thermostat is designed specifically for resistive loads.
When controlling large resistive, capacitive, or inductive loads, it is essential to use an appropriate contactor to protect the thermostat from excessive load to ensure safe operation.

The thermostat can withstand a resistive load of up to 16A/3600W at 230VAC. For loads above 13A, we recommend using a contactor.

PRODUCT FEATURES

- Z-Wave
- Internal room sensor
- Floor sensor
- 3 modes: Heat - Cool - Eco
- Power regulator
- Temperature limiter
- Temperature calibration
- Hysteresis/PWM
- ZeroX™ detection
- Open window detection
- External room sensor (wired by cable)
- Relay status icon
- Adjustable display brightness
- Single poled switch
- Lock mode/child lock
- Temperature readout in gateway
- Weekly schedule in gateway
- Active power metering
- SmartStart
- Firmware update (OTA)
- Supports encryption modes S0, S2 Authenticated Class, S2 Unauthenticated Class

PRODUCT DATA

Ambient temperature range in use	5 to 40°C
Ambient temperature range in storage	-30 to 70°C
Min/max installation temperature	5 to 40°C
Min. and max ambient humidity (RH%)	10 to 85%
Material	Polycarbonate (PC)
Mounting	European Junction Box System 55
Colour	Black mat

THERMOSTAT DATA

Regulation temperature	5 to 40°C
Compatible NTC-sensors (kΩ @ 25°C)	6.8, 10, 12, 15, 22, 33, 47, 100
Power regulator	Timed cycle 0-30 minutes
Temperature sensitivity	±0,5
Error margin temperature	0,5
Hysteresis	0,3 to 3,0 (default hysteresis 0,5)
Ohm value at 25°C	10kΩ
Max length of NTC sensor	50m

ADDITIONAL INFO

IP Code	IP21
Certification	LVD, Reach, RED, RoHS
Warranty international	2 years
Country of origin	CN

IOT / SMART HOME SPECIFIC DATA

Primary IoT Protocol	Z-Wave
Z-Wave Frequency	Z-Wave - 868.4 MHz (EU)
Z-Wave Chip	Z-Wave 800 chip
Z-Wave encryption mode	S0 S2 Authenticated Class S2 Unauthenticated Class
Min radio frequency range	40m
Push buttons	3
Temperature measurement range	5 to 40°C
Over The Air update (OTA)	Yes
FLiRS	No

ELECTRO TECHNICAL DATA

Voltage	230VAC 50Hz
Voltage Output	230VAC 50Hz
Grounding	No
Switch type	One-pole switch
Own power usage	2W
Max load (resistive load)	3600W
Max load (resistive load)	16A
Connection terminals diameter	0.2 to 2.5mm^2
Max tightening torque connections	2N·m
Connection type	Screw clamps
Method of control	Button regulation Regulation via gateway

PRODUCT DIMENSIONS

Product height/diameter	45.5mm	Product Width	84mm
Product length	84mm	Product net weight	125g

MAINTENANCE

The device is maintenance-free. Indoor use only.

ADDITIONAL INFORMATION

Expected Response Time in Z-Wave-Based Systems.
Z-Wave–based smart home systems use wireless communication in a mesh network, where each command is confirmed before it is considered completed. When a wireless device, such as a switch, thermostat, or sensor, is used to control another device (for example a dimmer or relay), the command is transmitted as a radio signal. The signal may be routed through one or more devices in the network before it reaches its destination.
Control may take place directly between devices or via a central unit (gateway). When scenes, associations, automations, or central logic are used, the command is processed there before being forwarded, which may result in a slight delay compared to direct wired control.
A delay of approximately 0.5–2 seconds is considered normal and expected in Z-Wave systems, and will vary depending on network structure, number of devices, signal path, and network load.

Heatit Controls AB declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

Standards: CE, Nemko, Z-Wave Plus

RETURN AND RECYCLING

The product must be recycled as electronic waste.

DISCLAIMER

Approved to be used in bathrooms.

Never change the front from one thermostat to another.

General info;
Worth noting regarding correct installation of thermostats.
When two or more thermostats are mounted too close to each other, the heat they emit, can interfere with the temperature sensors and the temperature in the junction box becomes too high. This can cause inaccurate temperature readings, especially under high load, leading to incorrect heating control. To avoid such issues, thermostats should be installed as far apart as possible and always in separate junction boxes. This ensures more accurate temperature readings.

In multi-frames with multiple units, the thermostat should always be mounted at the bottom, and no more than one thermostat should ever be installed in a multi-frame.

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

We develop and design our products according in accordance with our strict quality requirements (ISO 9001) and environmental requirements (ISO 14001).
All electrical installations must be carried out by an authorized electrical installer. The product must be installed in accordance with our installers manual and national building codes. Any wrongful installation, misuse, damage of the product, is not covered under warranty.

Updated documentation is available at www.heatit.com or documents.heatit.com
Heatit Controls AS can not be held liable for any type of errors or omittances in our product information.
Product specifications may change without further notice.