# HEATIT Z-SMOKE2 DETECTOR

PRODUCT DOCUMENTS

**Z-Wave** Installers manual
**230VAC**

| Firmware version | Document version |
|---|---|
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Heatit Z-Smoke2 Detector 230VAC
45 123 97

## TABLE OF CONTENTS


1. Introduction
2. Statement regarding products from multiple manufacturers
3. Behavior within the Z-Wave network
4. Installation disclaimer
5. Functions
6. Connections
7. Installation
8. Add/remove
9. Factory Reset
10. Startup
11. Serial connection
12. Testing the smoke detector
13. Power Supply (230VAC)
14. Tamper Switch
15. Dust Accumulation Detection
16. Temperature Detection
17. Calibration
18. Alarm Activation
19. Alarm Silence
20. Auto-Calibration
21. Recalibration (Manual Calibration)
22. QR-Code Placement
23. Security
24. Node Information Frame
25. Associations
26. Association Groups
27. Configuration Parameters
28. Command Classes
29. Supported Command Classes
30. Firmware update
31. Dimensions
32. Maintenance and Cleaning
33. Expiration
Product info


## 1. INTRODUCTION

Heatit Z-Smoke2 Detector is a smart smoke detector designed to alert you against potential fire hazards. Heatit Z-Smoke2 Detector uses multi-criteria sensor technology to distinguish between fast-burning flames and slow-smoldering fires, while at the same time incorporates intelligent technology to differentiate between cooking smoke and actual life-threatening house-fire emergencies, virtually eliminating nuisance alarms.

In addition to its smoke detection capabilities, the smoke detector also features heat detection and temperature report to users. Heatit Z-Smoke2 Detector is a Z-Wave® enabled device and is compatible with Z-Wave enabled networks.

The smoke detector's alarm situations, battery condition, operating conditions, supervisory data and general information are sent to the primary controller wirelessly. The device can also be serially connected with other sensors in the primary controller to serve as an extra siren.

Heatit Z-Smoke2 Detector calibrates for the air contents after warming up to determine a standard condition for the environment. It can also be manually instructed to calibrate for air content. The smoke detector is also pre-programmed to automatically calibrate every 15 days.

## 2. STATEMENT REGARDING PRODUCTS FROM MULTIPLE MANUFACTURERS

**Please read this before installation**

This device may be used with all devices certified with the Z-Wave Plus® certificate and should be compatible with such devices produced by any manufacturer. Every primary controller is different depending on the manufacturer, their target audience and intended use/application. Please review the functionalities implemented by the primary controller you intend to use with our Z-Wave Plus certified device to ensure that it provides the necessary controls to take full advantage of our product's capabilities.

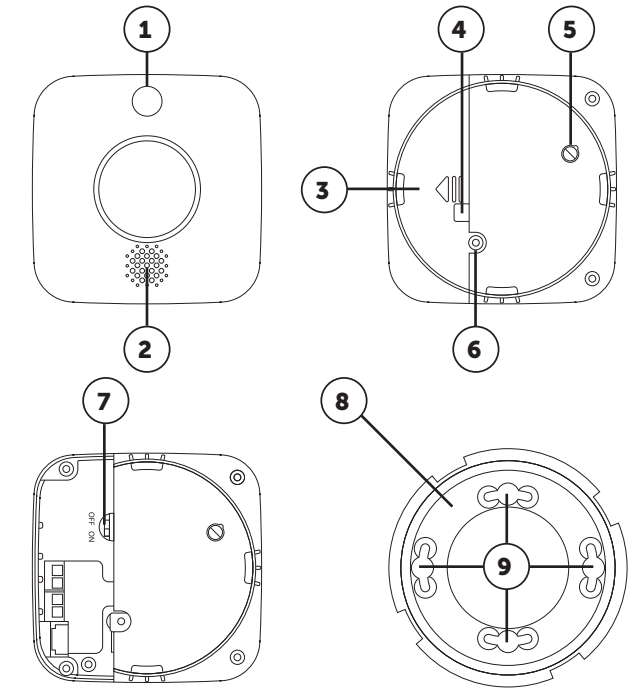
## 3. BEHAVIOR WITHIN THE Z-WAVE NETWORK

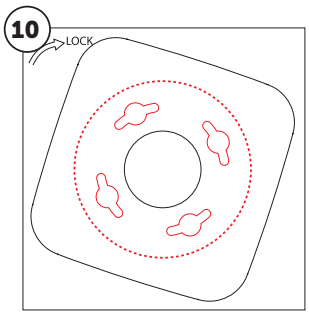
This device may be operated within any Z-Wave® network with Z-Wave-certified devices from other manufacturers. All non-battery-operated nodes within the network will act as repeaters regardless of manufacturer to increase the reliability of the network. On delivery, the device does not belong to any Z-Wave network. The device needs to be added to an existing network to communicate with the other devices within it. Devices may also be removed from a network. The add/remove processes are initiated by the primary controller of the Z-Wave network.

## 4. INSTALLATION DISCLAIMER

Installation must be done by a qualified electrician in accordance with national building codes. Before installation, disconnect the power to the device from the mains. During installation of the device, power to the device must be disconnected AT ALL TIMES!

## PARTS IDENTIFICATION




1. LED Indicator/Function Button
2. Siren
3. Battery Compartment
4. Pre-punched Hole for Wiring
5. Tamper Switch
6 Fixing Screw of Battery Compartment Cover
7. Battery Switch
   Use a screwdriver to slide the
   Battery Switch to the ON Position (Right).
8. Mounting Bracket
9. Mounting Holes
10. Mounting Sheet

## 5. FUNCTIONS

### 5.1 LED Indicator/Function Button

**Red LED**

- Quick flash: Alarming.
- Flashes every 1 second: Under Alarm Silence Mode.
- Flashes every 2 seconds: Under warm-up and calibration process.
- Flashes every 4 seconds with Red LED (mixed color display): battery exhausted.
- Turns On for 0.2 seconds: Test Button/Signal Transmission.

**Orange LED**

- Flashes every 1 second: Calibration failed.
- Flashes every 4 seconds with Orange LED (mixed color display): battery exhausted.
- Flashes every 5 seconds: Detecting smoke failed or device malfunctioning.
- Flashes every 45 seconds: Low battery.

**Function button**

- Press the button once to:
  - › Send a test signal.
  - › Check smoke detection chamber.
  - › Silence alarm when the smoke detector is alarming.
  - › Send temperature report to primary controller.
- Press the button 3 times within 1.5 seconds to start learning mode.
- Press and hold the button for 10 seconds to enter calibration process.
- Press and hold the button for 20 seconds to perform factory reset.

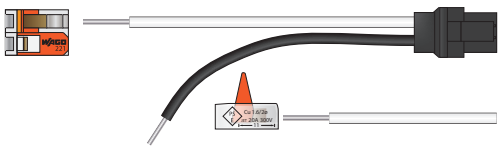
### 5.2 Buzzer

| CONDITION | INDICATION |
|---|---|
| Power ON | 2 beeps |
| Warm up completes | 1 beep |
| Calibration succeeds | 2-tone beep |
| Calibration fails | Continuous beeps |
| Press the button once (smoke detector functions normally) | 2-tone beep |
| Press the button once (optical chamber dirty or out of order) | 2-tone beep x 3 |
| Low Battery | One beep every 45 seconds |
| Press the button for 10 seconds to enter manual calibration | 2 beeps |
| Press the button for 20 seconds to Factory Reset | 3 beeps |
| Alarm activation | Alarm sound |

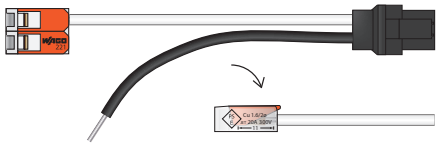
## 6. CONNECTIONS

Heatit Z-Smoke2 Detector uses AC 100-230VAC as its power source and has three rechargeable batteries as its backup battery in case of power failure.

1. Switch off the mains voltage (disable the fuse).
2. Two Wago 221 Splicing Connectors are provided. Take out one connector. Pull the lever up and insert the white wire.

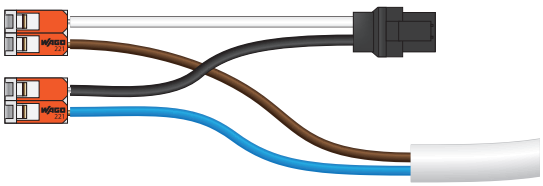


3. Push the lever back down. The transparent housing allows you to check if the wire is connected properly. Make sure the wire is tightly held in place before you proceed.



4. Repeat Steps 2 and 3 to insert the black wire. Inserting the two wires to the same side (right) of the two connectors provides an easier installation in the following steps.

5. Insert the AC wires to the two connectors respectively. Use a screwdriver to turn the Battery Switch to ON position (right side); the rechargeable battery will begin to charge.



Warm-up: After the power is supplied, the smoke detector will sound 2 short beeps, and the Red LED will start to flash to indicate the detector is performing a 1-minute warm-up.

Calibration: When the 1-minute warm-up is over, one short beep will sound to indicate the smoke detector is starting the calibration process. The smoke detector will emit a 2-tone beep to indicate the calibration is completed, and the Red LED will turn off. The smoke detector will emit continuous beeps to indicate calibration failure. Disconnect the power supply and then re-connect it after a pause of at least 30 seconds to retry warm-up.

After warm-up and calibration are complete, proceed to add the smoke detector into the primary controller. Please refer to chapter "Add/Remove" for details.

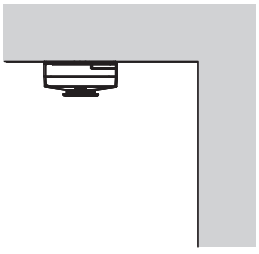
## 7. INSTALLATION

The smoke detector is designed to be mounted on the ceiling. The ideal mounting height for the smoke detector is 3 meters. Mounting above 3 meters can affect detection performance.

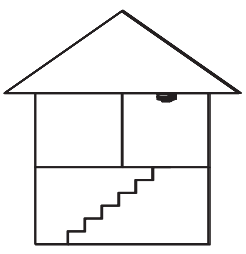
A mounting sheet is provided to help users correctly install the smoke detector. The mounting sheet has a perforated design for mounting holes and the mounting bracket, and can be removed from the mounting surface easily after installation.

It is recommended that the installation site be in the center area of the ceiling. Do not locate the detector in the following locations:

- The Kitchen – Smoke from cooking might cause an unwanted alarm.
- Near a ventilating fan, fluorescent lamp or air-conditioner – air drafts from them may affect the sensitivity of the detector.
- Near ceiling beams or over a cabinet – stagnant air in these areas may affect the sensitivity of the detector.
- In the peak of an "A" frame type of ceiling.



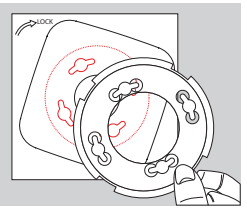
**At least 60cm from the wall:** Ensure that the smoke detector is mounted at least 60cm away from walls for optimal detection.



**At the top of a stairway:** This is an ideal location to detect smoke rising through the stairwell.

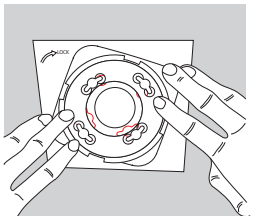
### 7.1 Mounting the smoke detector

1. Using Mounting Sheet
   Place the mounting sheet on the surface to be mounted; use the mounting holes on the mounting sheet to drill four mounting holes into the surface.

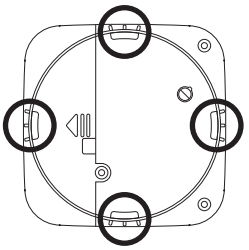


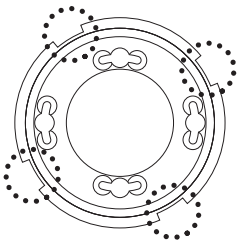
2. (Optional) Insert wall plugs if required. Ensure the wall plugs are flush with the mounting surface.

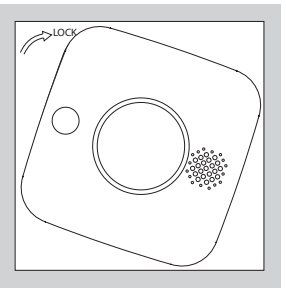
3. Aligning Mounting Bracket
   Precisely align the four mounting holes on the mounting bracket with those on the mounting sheet and screw the mounting bracket onto the wall plugs.



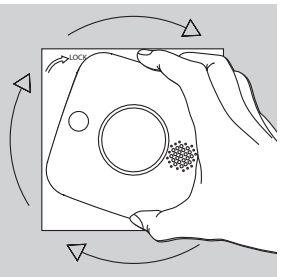
4. Mounting Detector
   The smoke detector has 4 hooks (circled with solid outline) on its back cover. Carefully hold the smoke detector and fit it onto the four notches (circled with dotted outlines) on the mounting bracket.



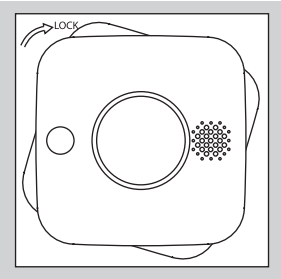





5. Rotate the smoke detector clockwise to lock it in place.



6. Installation is now complete.
   You can remove the mounting sheet.




## 8. ADD/REMOVE

**Please read this before installation**

The primary controller has a mode for adding or removing devices. Please refer to your primary controller manual on how to set the primary controller in add/remove mode. The device may only be added or removed from the network if the primary controller is in add/remove mode. When the device is removed from the network, it will NOT revert to factory settings.

An always listening node must be powered continuously and reside in a fixed position in the installation to secure the routing table. Adding the device within a 2 meter range from the primary controller can minimize faults during the Interview process.

There are two ways to add the device to a Z-Wave network.

### 8.1 Method 1: Standard (Manual)

Add/Remove mode is indicated on the device by emitting a 2-tone beep and the LED will turn on for about 0.2 seconds.

1. Set the primary controller into add/remove mode (please refer to the primary controller manual).
2. Press the Function button 3 times within 1.5 seconds,
   The smoke detector will emit a 2-tone beep and the LED will flash once. Refer to the manual of the primary controller to complete the add/remove process.

The device is now ready for use with default settings.

If inclusion fails, please perform a "Remove" process and try again. If inclusion fails again, please see "Factory reset".

NB! When the device is removed from the primary controller, the parameters are not reset. To reset the parameters, see chapter "Factory reset".

### 8.2 Method 2: SmartStart (Automatic)

SmartStart enabled products may be added to a Z-Wave network by scanning the Z-Wave QR-Code on the product if your primary controller supports SmartStart inclusion. No further action is required and the SmartStart product will be added automatically after being powered on within range of the primary controller.

NOTE: The DSK of the device is used only during inclusion process. It can be read without the smoke detector powering ON, so it is possible to prepare the primary controller to include the device prior to installing and providing power to the device.

## 9. FACTORY RESET

Press and hold the Function button for 20 seconds to factory reset. The Smoke detector will first beep after 7 seconds to indicate that it is being reset. Final confirmation of reset with beeps after 20 seconds.

Factory resetting the smoke detector will restore it to factory default settings (excluded from the Z-Wave network). The primary controller will still keep its Z-Wave settings. Please refer to the primary controller manual on how to remove the smoke detector's Z-Wave settings.

Please use this procedure only when the primary controller is missing or otherwise inoperable.

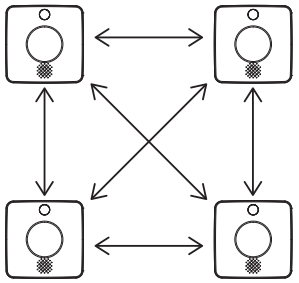
## 10. STARTUP

After powering up the device for the first time, all parameters will have default settings.

## 11. SERIAL CONNECTION

The Heatit Z-Smoke2 Detector can be used together with other 230VAC Heatit Z-Smoke2 Detector (maximum 11 in the same serial connection, meaning 10 other smoke detectors).

To activate this functionality. It is required to assign associations from every smoke detector to every other smoke detector.
As shown below:



1. Add all smoke detectors to the same network with the same security level.
2. Assign assocations from each device using association Group 2 (Smoke Basic Set) to every other smoke detector.

This way it is ensured that no matter where the fire is detected, all the Heatit Z-Smoke2 Detectors will be triggered and turn on their sirens.

To silence an ongoing alarm:

- Press the test button on a smoke detector.
- If the smoke detector was triggered from another device, the device will stop all alarms execpt from where the alarm was triggered.

## 12. TESTING THE SMOKE DETECTOR

By pressing the Function Button on the smoke detector, you can test if the smoke detector is functioning normally.

- If the smoke detector functions normally, the Red LED will be on for 2 seconds, followed by a 2-tone beep.
- If the siren sounds 2-tone beeps 3 times, the "Optical Chamber" on the smoke detector is either dirty or out-of-order.

## 13. POWER SUPPLY (230VAC)

When AC power is applied, the rechargeable batteries will be charged at the same time, and the smoke detector will report its battery percentage to the primary controller respectively at 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, and 100%. If the battery voltage is low (20%), a Low Battery signal will be sent to the primary controller to notify the user.

During the low battery status, a low battery signal will be transmitted along with regular signal transmissions; the Orange LED will flash once along with one beep every 45 seconds.

NOTE: The first press of the Function Button in the low battery status will stop the beep for 7 days. Any further button press after 7 days will not silence the warning beeps. The LED will flash Red and Orange once every 4 seconds when the batteries are exhausted. The backup batteries are NOT replaceable.

## 14. TAMPER SWITCH

The smoke detector is protected by a tamper switch which is compressed when it is hooked onto the mounting bracket. When the smoke detector is removed from the mounting bracket, the tamper switch will be activated and the smoke detector will send a tamper open signal to the primary controller.

The smoke detector will send a tamper close signal to the primary controller after the device is hooked onto the mounting bracket. Please note that the smoke detector has to be included in the Z-Wave network first.

## 15. DUST ACCUMULATION DETECTION

The smoke detector regularly checks for excessive dust buildup inside the Optical Chamber. If the chamber gets so much dust that it doesn't work anymore, the smoke detector will send a maintenance warning to the primary controller

## 16. TEMPERATURE DETECTION

The smoke detector measures the temperature where it is installed and reports the temperature readings to the primary ontroller. Users can press the Function Button once to manually trigger a temperature report.

## 17. CALIBRATION

If the temperature sensor readout is not correct, you can make minor changes to the temperature readout. The temperature readings can be calibrated by ±6°C using the calibration parameter. The adjusted value will be displayed in the primary controller indicating what the device uses for regulation.

## 18. ALARM ACTIVATION

The smoke detector activates the fire alarm when it detects smoke or high temperatures. Once activated, the smoke detector reports to the primary controller and sounds the siren.

### 18.1 Smoke Detection

- The smoke detector checks smoke concentration every 8 seconds.
- The alarm is activated whenever the smoke concentration exceeds the detection threshold, and will continue until the smoke concentration drops below alarm threshold.
- The Red LED will flash quickly while alarming.

### 18.2 Heat Detection

- The smoke detector checks the temperature every 10 seconds. The alarm will be activated in the following conditions:
  - When the temperature rises by 8.25°C per minute (Rate of Rise).
  - When the temperature exceeds 57.25°C (High Heat).
- The Red LED will flash every second during alarm. The smoke detector will only stop alarming if the temperature drops below alarm threshold.
- If the alarm was triggered by Rate of Rise condition (8.25°C per minute or more), the temperature must drop to 4°C below highest temperature detected for the smoke detector to stop alarming.
- If the alarm was triggered by High Heat condition (57.25°C), the temperature must drop below 49°C for the smoke detector to stop alarming.
- The smoke detector will transmit a restore signal if no smoke or high heat is detected for 160 seconds.
- If the alarm condition continues, the smoke detector will resend an alarm signal every 2 minutes.

## 19. ALARM SILENCE

When the smoke detector is alarming, pressing the Function Button will put the smoke detector into Alarm Silence mode to mute the alarm for 9 minutes. The siren will only stop sounding after the alarm has been activated for at least 1 minute. If the button is pressed before alarm time reaches 1 minute, the smoke detector will wait until alarm time has reached 1 minute before silencing the alarm.

During the 9-minute Alarm Silence period, the Red LED will flash once per second. The smoke detector will continue to monitor smoke concentration during the alarm silence period.

After the 9-minute Alarm Silence period has expired, if the smoke concentration has dropped below the alarm threshold, the smoke detector will emit a 2-tone beep and return to normal operation without sounding the alarm.

If smoke concentration still exceeds alarm threshold, the smoke detector will start alarming again. If smoke concentration continues to rise during the Alarm Silence period and exceeds a second alarm threshold, the smoke detector will start alarming again. An alarm activated by exceeding the second alarm threshold cannot be silenced by pressing the Function Button.

## 20. AUTO-CALIBRATION

The smoke detector will perform auto-calibration 12 hours after being powered on. Afterwards, it will perform auto-calibration once every 15 days. During the auto-calibration process, the smoke detector will not emit any sounds, and the Red LED will flash once every 2 seconds.

If auto calibration fails, the Orange LED will flash every second, and the Smoke Detector will send a calibration failure code to the primary controller. To stop the Orange LED flashing, completely power off the device by removing the AC power and sliding the battery switch to OFF. Then, repower the device. Alternatively, you can manually restart the calibration process. Refer to the chapter "Recalibration" for details.

If the manual calibration fails again, inspect and clean the detector, and verify its installation environment. If troubleshooting does not resolve the issue, consult the supplier.

NOTE: When the smoke detector's auto-calibration fails, the smoke alarm function will still work normally using the threshold value taken from the last successful calibration.

## 21. RECALIBRATION (MANUAL CALIBRATION)

As the operation condition of the smoke detector may vary after being installed for some time, you may wish to recalibrate the smoke detector to take a new smoke detection threshold value and ensure optimal performance of the smoke detector.

To do this:

- Press and hold the Function Button for 10 seconds and release when the Smoke Detector emits 2 short beeps. The device will sound another beep after 5 seconds and begin calibration. The Red LED will flash every 2 seconds while calibrating to indicate that it is calibrating.
- Calibration process lasts for 1 minute (If calibration fails, the smoke detector will retry calibration, calibration mode will last 9 minutes at most).
- When calibration is finished, the smoke detector will sound a two-tone beep. The Red LED will stop flashing to indicate it has returned to normal mode.
- If calibration fails, the Smoke Detector will beep continuously, and the Orange LED will flash every second. You will need to completely power off the device by removing the AC power and sliding the battery switch to OFF. Then repower on the device and slide the battery switch to ON.
- If a smoke detector fails calibration continuously, inspect and clean the detector, and verify its installation environment. If troubleshooting does not resolve the issue, consult the supplier.

## 22. QR-CODE PLACEMENT (DSK)

The QR-Code is needed when including a device using S2 security or SmartStart. The DSK can be found in the QR-Code and is located;

- On the product.
- In the Quick Guide.
- On the packaging box/gift box.

## 23. 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 device is added to the Z-Wave home network.

## 24. 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.

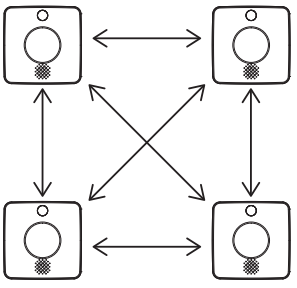
## 25. ASSOCIATIONS

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.

## 26. ASSOCIATION GROUPS

| MAIN DEVICE | DESCRIPTION |
|---|---|
| Group 1 | Lifeline.<br>Lifeline Group to be used by primary controller, sends:<br>-Battery Report<br>-Switch Binary Report<br>-Notification Report<br>-Sensor Multilevel Report<br>-Device Reset Locally Notification<br><br>Max nodes in group: 10 |
| Group 2 | Smoke Basic Set.<br>-Basic<br>When the smoke detector is activated, it will send Basic Set On (0xFF) in Group 2.<br>When the smoke detector is restored, it will send Basic Set Off (0x00) in Group 2.<br><br>Max nodes in group: 10 |

If the smoke detectors should control each other, an association from Group 2 must be created from each smoke detector to all other smoke detectors that is to be controlled.



## 27. 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. All the parameters below do not feature altering capabilities, advanced or read only flags.

| PARA NO# | PARA SIZE (BYTE) | NAME | SHORT DESCRIPTION / COMMENT | MIN | MAX | DEFAULT | DESCRIPTION OF VALUE |
|---|---|---|---|---|---|---|---|
| 1 | 1 | Smoke Detection Disable Smoke Detection Enable | Choose to enable or disable the smoke detection | 0 | | 1 | Disabled, Smoke detection is disabled |
| | | | | | 1 | | Enabled, Smoke detection is enabled (default) |
| 2 | 1 | Adjust Tempera-ture | Manually calibrate the internal sensor | -60 | 60 | 0 | -6.0°C to 6.0°C Calibrates the sensor by ±6°C. (Default is 0°C) NB! To set a negative value, use 256 and subtract the desired value. |

## 28.COMMAND CLASSES

Additional information regarding Command Classes and their functionality:

### 28.1 AC Failure/Restore

When an AC power failure is detected, the smoke detector will send an AC failure signal to the primary controller. When AC power is restored, the smoke detector will send a restore signal to the primary controller.

The values will be reported to the primary controller through: [COMMAND_CLASS_NOTIFICATION] [NOTIFICATION_REPORT]

| VALUE | DESCRIPTION |
|---|---|
| 00 00 00 FF 08 02 00 00 | AC Failure |
| 00 00 00 FF 08 03 00 00 | AC Restore |

### 28.2 Battery

When AC power is applied, the rechargeable battery will be charging at the same time, and the smoke detector will report its battery percentage to the primary controller respectively.

When AC power is removed or power failure takes place, the smoke detector will use its built-in rechargeable battery and report its battery percentage. After AC power is reapplied, the smoke detector will report its battery percentage detected.

The values will be reported to the primary controller through: [COMMAND_CLASS_BATTERY] [BATTERY_REPORT]

| VALUE | DESCRIPTION |
|---|---|
| 0x64 | 100% Battery Full |
| 0x5A | 90% Battery |
| 0x50 | 80% Battery |
| 0x46 | 70% Battery |
| 0x3C | 60% Battery |
| 0x32 | 50% Battery |
| 0x28 | 40% Battery |
| 0x1E | 30% Battery |
| 0x14 | 20% Battery |
| 0xFF | Battery Dead (Cut Off) |

### 28.3 Smoke Detection Triggered/Smoke Detection Restored

The values will be reported to the primary controller through: [COMMAND_CLASS_NOTIFICATION] [NOTIFICATION_REPORT]

| VALUE | DESCRIPTION |
|---|---|
| 00 00 00 FF 01 02 00 | Smoke Alarm Triggered |
| 00 00 00 FF 01 00 01 02 | Smoke Alarm Restored |
| 00 00 00 FF 01 06 00 | Smoke Alarm Silenced |

### 28.4 Dust Force Maintenance

If the Optical Chamber gets too much dust for the smoke detector to function normally, the smoke detector will report to the primary controller for force maintenance warning.

The values will be reported to the primary controller through: [COMMAND_CLASS_NOTIFICATION] [NOTIFICATION_REPORT]

| VALUE | DESCRIPTION |
|---|---|
| 00 00 00 FF 01 08 00 | Force Maintenance |

### 28.5 Heat Detection Triggered/Heat Detection Restored

The values will be reported to the primary controller through: [COMMAND_CLASS_NOTIFICATION] [NOTIFICATION_REPORT]

| VALUE | DESCRIPTION |
|---|---|
| 00 00 00 FF 04 02 00 | Heat Alarm Triggered |
| 00 00 00 FF 04 00 01 02 | Heat Alarm Restored |
| 00 00 00 FF 04 09 00 | Heat Alarm Silenced |

### 28.6 Tamper Open/Close report

The smoke detector is protected by a tamper switch which is compressed when it is hooked onto the mounting bracket When the smoke detector is removed from the mounting bracket, the tamper switch will be activated and the smoke detector will send a tamper open signal to the primary controller to remind the user of this condition.

The values will be reported to the primary controller through: [COMMAND_CLASS_NOTIFICATION] [NOTIFICATION_REPORT]

| VALUE | DESCRIPTION |
|---|---|
| 00 00 00 FF 07 03 00 00 | Tamper Open |
| 00 00 00 FF 07 00 01 03 | Tamper Close |

### 28.7 Temperature Report

The smoke detector can report temperature signal to the primary controller every 30 to 33 minutes with smoke detector normal operating or when temperature changes by +/- 2°C.

The values will be reported to the primary controller through: [COMMAND_CLASS_SENSOR_MULTILEVEL] [SENSOR_MULTILEVEL_REPORT]

| VALUE | DESCRIPTION |
|---|---|
| 01 22 00 FA | Temperature |

### 28.8 Siren On/Off Control

The siren of the smoke detector can be controlled by using Basic Set On/Off commands. The siren can be turned On using this command, set Basic Set/Switch Binary Set: 0xFF. The siren can be turned Off using this command, set Basic Set/Switch Binary Set: 0x00. **This command CANNOT be used to stop the siren of the device that triggered the alarm.**

The values will be reported to the primary controller through: [COMMAND_CLASS_BASIC] [BASIC_REPORT] [COMMAND_CLASS_SWITCH_BINARY] [BINARY_REPORT]

| COMMAND CLASS | VALUE | DESCRIPTION |
|---|---|---|
| Basic Set/Switch Binary Set | 0xFF | Turns siren ON |
| Basic Set/Switch Binary Set | 0x00 | Turns siren OFF, **(This command CANNOT be used to stop the siren of the device that triggered the alarm.)** |

## 29. SUPPORTED COMMAND CLASSES

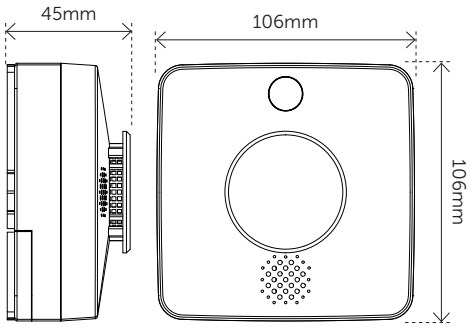
The following table lists all Command Classes supported by the Z-Wave device. The device supports S2 Unauthenticated security.

| ASSOCIATION | VERSION | INSECURE ON SECURE INCLUSION | SECURE ON SECURE INCLUSION |
|---|---|---|---|
| Association | v2 | | Yes |
| Association Group Information | v1 | | Yes |
| Battery | v1 | | Yes |
| Device Reset Locally Notification | v1 | | Yes |
| Firmware Update MD | v4 | | Yes |
| Manufacturer Specific | v2 | | Yes |
| Multi channel Association | v3 | | Yes |
| Power level | v1 | | Yes |
| Security v2 | v1 | Yes | |
| Supervision | v1 | Yes | |
| Basic v1 med security secure support | v1 | Yes | |
| Transport Service | v2 | Yes | |
| Version | v3 | | Yes |
| Z-Wave Plus Information | v2 | Yes | |
| Configuration | v1 | | Yes |
| Notification | v8 | | Yes |
| Sensor Multilevel | v11 | | Yes |

## 30. FIRMWARE UPDATE (OTA)

An OTA (Over-The-Air) update on Z-Wave products allows devices to be updated wirelessly. However, this depends on the type of primary controller you use, as not all primary controllers support the OTA function.

## 31. DIMENSIONS




## 32. MAINTENANCE AND CLEANING

Regular maintenance and cleaning will help keep your Heatit Z-Smoke2 Detector in good working order.

1. Test the smoke detector weekly to verify that the alarm sounds and indicators are working properly.
2. Clean the smoke detector at least once every 6 months.
   - › Gently vacuum off the dirt/dust/small particles accumulated in the smoke detection chamber and slots.
   - › Clean the casing by swiping it thoroughly with a damp cloth and dry it. Do not get water inside the alarm.
   - › Never use cleaning agents, detergents or solvents on the smoke detector.
3. Avoid spraying air freshener, hair spray, or other aerosols near the smoke detector.
4. Do not paint or modify the smoke detector under any circumstances.

## 33. EXPIRATION

The Heatit Z-Smoke2 Detector has a maximum life time of 10 years from the date of installation. You should replace the smoke detector immediately after 10 years of service.

It is recommended to write the "Replace by" date (10 years from installation date) on the back of the smoke detector prior to installation.

# PRODUCT INFO Heatit Z-Smoke2 Detector

## FEATURES

- Smart smoke detector
- 230VAC
- Smoke detection
- Heat detection
- Dust detection
- Serial connection (via gateway)
- Built-in temperature sensor
- Back-up battery
- Tamper switch
- Supports encryption mode: S2 Unauthenticated Class

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

## TECHNICAL DATA

| | |
|---|---|
| Protocol | Z-Wave, 868.4MHz |
| Chip | Z-Wave 500 chip |
| Rated voltage | 100V~230VAC 50/60Hz<br>3 x 200mAh 15AAA Ni-MH<br>Rechargeable back-up batteries |
| Power consumption | <2W |
| Alarm | 85dB at 3 meters distance |
| Smoke sensor | Photoelectric |
| Ambient temperature | 5°C to 40°C |
| Storage temperature | -30°C to 70°C |
| Humidity | 10% to 85% RH |
| Range RF | Min. 40 meter |
| IP Code | IP20 |
| Size (LxWxH) | 106 x 106 x 45mm |
| Approvals | CE, Z-Wave<br>EN 14604:2005, 14604/AC:2008 |

Working frequency 868.42MHz, Max output power 5dBm. The distance between user and products should be no less than 20 cm. There is no restriction to use this product across the EU countries.

Hereby, Heatit Controls AB, declares that this device is in compliance with the essential requirements another relevant provisions of Directive 2014/53/EU.

## MAINTENANCE

See chapter "Maintenance and cleaning".
Indoor use only.

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.



We develop and design our products 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 and/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.

heatit CONTROLS

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