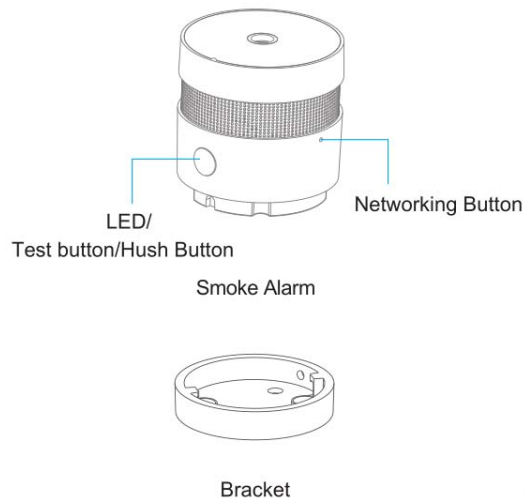


# HS3SA-Z

## Z-Wave Device Guide Document



### Product description

-Product is S2 Unauthenticated devices.

-This device is a security enable Z-Wave Plus product that is able to use encrypted Z-Wave Plus messages to communicate to other security enable Z-Wave Plus products.

Note: A "Security Enable Z-Wave Controller " must be used in order to fully utilize this function.

### 1-Device ADD for Inclusion

- Click [Add] icon in Z-Wave Controller .
- Press the Net\_Button 3 times within 1.5s, Green LED is Blinking 3 times within 1 second.
- If Inclusion Process is successful, Green led will turn off.

### 2-Device Remove for Exclusion

- Click [Remove] icon in Z-Wave Controller
- Press the Net\_Button 3 times within 1.5s
- If Exclusion Process is successful, Green led is Blinking 6 times, then turn off.

### 3-Device test mode

if Inclusion process is successful, Press Test\_Button to test if the device is working normally.

Red LED flashes the device 3 times and sends out a smoke event, then when the red LED turn off the device sends out a smoke-free event .

### 4-Device detection mode

if Inclusion process is successful, the device will report alarm information if detect the status change of smoke and no smoke . Red LED blinks quickly when smoke is detected.

### 5-Device Factory Reset

--Long press Net\_Button at least 10 seconds in the product.

- Device Reset Locally notification is Transmitted.

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

inoperable.

## 6-Association & Association Group Information

- Lifeline between controller and HS1SA-Z
- Supported command classes

Battery report, Notification report, and Device Reset Locally notification.

- Association Group description

Association group 1: Lifeline association group

- Maximum supported node is 5.

Include command classes: Battery report, Notification report, and Device Reset Locally notification,

► Association group 2: Root Device group(Basic set)

- Maximum supported node is 5.

The Sensor sends a **Basic Set command** to directly trigger devices (like a light, switch, etc.) in response to events. The value of the Basic Set command (e.g. Siren trigger) is configured using **smoke or no smoke**

|                                                                                                     |      |                 |
|-----------------------------------------------------------------------------------------------------|------|-----------------|
| This parameter sets the value sent by the BASIC_SET command to Association Group for Smoke event    |      |                 |
| BASIC_SET Level                                                                                     | 0xFF | Turn On Device  |
| This parameter sets the value sent by the BASIC_SET command to Association Group for no smoke event |      |                 |
| BASIC_SET Level                                                                                     | 0x00 | Turn Off Device |

## 7-Notification Report

-Press or release test button, or smoke status is changed(smoke detected or no smoke detected) , Notification Report is transmitted

| Notification Type     | Event                                     |
|-----------------------|-------------------------------------------|
| Smoke Alarm<br>(0x01) | Previous Events cleared<br>( 0x00)        |
|                       | Smoke detected,<br>Unknown Location(0x02) |

## 8-Battery Report

- Battery Report is transmitted when power on the device.
- Battery Report is transmitted once a day.
- Battery Report is transmitted when the battery falls less than 0%
- 

|                 |               |
|-----------------|---------------|
| Battery Voltage | Battery Level |
| 2.4V ~ 3.0V     | 0~ 100 (%)    |
| Under 2.4V      | 0xFF          |

## 9-Wake up Notification

- Wake up Notification is transmitted every 24 hours by default.
- Wake up Notification is transmitted when power is turn on.

## 10-Devices from multiple manufacturers in one network

- This product can be included and operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers and/or other applicants. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

## 11-Z-Wave Specifications

11.1-Device Type : Sensor - Notification

11.2-Role Type : RSS (Reporting Sleeping Slave)

### 11.3-Command Class Support/Control

11.3.1-Z-Wave plus InfoVersion 2

11.3.2-Notification Version 8

11.3.3-Association Version 2

11.3.4-Association Group Info Version 1

11.3.5-Transport Service Version 2

11.3.6-Version Version 3

11.3.7-Manufacturer Specific Version 2

11.3.8-Device Reset Locally Version 1

11.3.9-Powerlevel Version 1

11.3.10-Battery Version 1

11.3.11-Security 2 Version 1

11.3.12-Supervision Version 1

11.3.13-Wake Up Version 2

[11.3.14-Multi Channel Association Version 3](#)

### 11.4-The below listed Command Class are all Supported the Security S2

11.4.1-Notification Version 8

11.4.2-Association Version 2

11.4.3-Association Group Info Version 1

11.4.4-Version Version 3

11.4.5-Manufacturer Specific Version 2

11.4.6-Device Reset Locally Version 1

11.4.7-Powerlevel Version 1

11.4.8-Battery Version 1

11.4.9-Wake Up Version 2

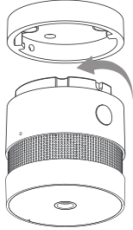
[11.4.10-Multi Channel Association Version 3](#)

## 12-Indicate LED statues description-

| status    | LED status              | Alarm sound             |
|-----------|-------------------------|-------------------------|
| Normal    | Red LED flash every 53s | No sound                |
| Test mode | Red LED flash quickly   | Sound “Di-Di-Di” loudly |
| Alarm     | Red LED flash quickly   | Sound “Di-Di-Di” loudly |

|              |                                        |                                   |
|--------------|----------------------------------------|-----------------------------------|
| Silence mode | Red LED flash 1 time every 10 seconds  | No sound                          |
| Low battery  | Red LED flash 1 time every 53 seconds  | Sound “Di” every 53 seconds       |
| Fault        | Red LED flash 2 times every 53 seconds | Sound “Di” twice every 53 seconds |

### 13-How to replace the batteries

|                                                                                     |                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | Turn right to dismantle the mounting base of the device                                                                                                                                       |
|   | <p>1)take out battery from the device</p> <p>2)Insert the battery into the device</p> <p>( You must be careful of the battery polarity)</p>                                                   |
|  | <p>Turn left to install the mounting base of the device</p> <p>(before install the mounting base, you should must insert battery firstly , otherwise the mounting base will not be fixed)</p> |

### 14-Technical Specifications

|                       |                                                      |
|-----------------------|------------------------------------------------------|
| Model No.             | HS3SA-Z                                              |
| RF frequency          | 868.40- 869.85 MHz                                   |
| RF operating distance | Up to 100m outdoor line of sight<br>Up to 40m indoor |
| Powered by            | 1 x CR123A or CR17335                                |
| Temperature           | -10℃~ 50℃                                            |
| Humidity              | 95% max                                              |
| Weight                | 90g                                                  |