2nd Gen Ring Alarm Panic Button Z-Wave Instruction Manual

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Introduction

The Ring Alarm Panic Button is a wireless sensor for the Ring Alarm system which provides users with a single action emergency button. After configuring the device, Neighbors can trigger an emergency response at the push of a button. The device is configurable in the Ring app to trigger either a Panic, Medical, or Fire alert. The Ring Alarm Base Station is required to enable Panic Button features and functions within the Ring app.

1. This product can be operated in any Z-WaveTM network with other Z-Wave-certified devices from other manufacturers. All mains-operated nodes within the network will act as repeaters regardless of vendor to increase the reliability of the network.
2. SmartStart-enabled products can be added to a Z-Wave network by scanning the Z-Wave QR Code present on the product with a controller providing SmartStart inclusion. No further action is required and the SmartStart product will be added automatically within 10 minutes of being switched on in the network vicinity.

Ring Alarm Panic Button Gen 2 – Basic Setup & Installation

1. Ensure your Ring Alarm system is disarmed.
2. In the Ring app, tap Set Up a Device and find the Panic Button in the Security Devices menu.
3. Follow the in-app instructions to complete the setup.
    - Pull the battery tab (or reinsert the batteries) to trigger setup mode.
        1. Tap the orange setup button to retry setup mode.

Installation

Once your Panic Button is set up in the Ring app, it’s ready to place on a table or shelf. It can also be mounted to a wall, or discreetly under a desk or table.

Tape Mounting
Clean the mounting location, then peel the rubber pads off of the bottom cover to expose the adhesive tape. Press the Panic Button firmly to the mounting location and hold for 20 seconds to make sure the tape is securely attached.

Screw Mounting
You’ll need two flat head No. 4 x 5/8” (3mm x 15mm) screws and two No. 4 x 3/4” (5mm x 19mm) wall anchors. Twist the bottom cover counterclockwise so that the unlock symbol is aligned with the indicator. Pull to separate, then set the Panic Button aside. Drill pilot holes in the mounting surface using a 3/16” (5mm) drill bit. Insert the wall anchors, then screw in the back cover. Place the Panic Button onto the back cover and twist clockwise so that the lock symbol is aligned with the indicator. Check to make sure it’s secure.

Z-Wave Instructions

- **Z-Wave Device Type**: Notification Sensor
- **Role Type:** Reporting Sleeping Slave (RSS)
- GENERIC_TYPE_SENSOR_NOTIFICATION (0x07)
- SPECIFIC_TYPE_NOTIFICATION_SENSOR (0x01)

Z-Wave Long Range
This device supports both Classic Z-Wave and Z-Wave Long Range. Z-Wave Long Range capable controllers can include this device as a device in the network. Long Range mode allows for a much greater operating range of the

device. The device can only operate in one mode at a time, and it is dictated during the inclusion process by the controller or Base Station. To change operating modes (Z-Wave Smartstart vs. Z-Wave Long Range Smartstart), the device must be removed from the network and then re-added in the desired mode. Adding Ring Panic Button Gen 2 to a Z-Wave Network Ring Panic Button Gen 2 can be added via Smart Start or Classic inclusion mode.

Note: When prompted for the QR Code or PIN, you may find them on the device, on the box, or a card inside the box. Keep the device nearby. You'll be prompted to pull the battery tab to power on the device and enter setup mode.

Smart Start Inclusion Steps:

1. Initiate the add flow for Security Devices in the Ring mobile application – Follow the guided add flow instructions provided in the Ring mobile application.
2. When prompted by the mobile application, scan the QR code found on the package of the Panic Button. The QR code can also be found on the device itself.
3. Pull the pull-tab or insert batteries, and the device will go into Smart Start inclusion mode. While in this mode, the Panic Button can be added to a Z-Wave controller that supports Smart Start. When in Smart Start inclusion mode, Smart Start can be restarted by tapping the button on the front of the device.

Classic Inclusion Steps

1. Initiate add flow for Security Devices in the Ring mobile application – Follow the guided add flow instructions provided in the Ring mobile application.
2. Select add manually and enter the 5-digit DSK pin found on the package of the Ring Alarm Panic Button or the 5-digit DSK pin found under the QR code on the device.
3. After powering on the device, press and hold the setup button for ~3 seconds. Release the button and the device will enter Classic inclusion mode which implements both classic inclusion with a Node Information Frame, and Network Wide Inclusion. During Classic Inclusion mode, the green LED will blink three times followed by a brief pause, repeatedly. When Classic inclusion times out, the device will blink alternating red and green a few times.

LED Behavior for Inclusion	Blink Pattern
Smart Start Started	Green LED three times, repeated after a brief pause
Classic Inclusion Started	Green LED three times, repeated after a brief pause
Classic Inclusion Timed-Out	Alternate red and green a few times
Inclusion Successful (Authenticated S2)	Green LED on solid
Inclusion Not Successful (Self-Destruct)	Red LED on solid

Removing a Sensor from a Z-Wave Network

Exclusion Instructions:

1. Initiate remove "Ring Alarm Panic Button" flow in the Ring Alarm mobile application – Select the settings icon from the device details page and choose "Remove Device" to remove the device. This will place the controller

into Remove or “Z-Wave Exclusion” mode.
2. With the controller in Remove (Z-Wave Exclusion) mode, use a paper clip or similar object and tap the RESET button inside the battery compartment. The device’s red LED turns on solid to indicate the device was removed from the network.

Ring Panic Button Gen 2 – Factory Reset

Factory Default Instructions

1. To restore the Ring Alarm Panic Button to factory default settings, locate the RESET button. This is found inside the battery compartment on the back of the device after removing the mounting bracket.
2. Using a paperclip or similar object, insert it into the RESET button, and press and hold the button down for 10 seconds.
3. The device will rapidly blink green continuously for 10 seconds. After about 10 seconds, when the green blinking stops, release the button. The red LED will turn on solid to indicate the device was removed from the network.

Note: Use this procedure only if the network primary controller is missing or otherwise inoperable.

Identify Function
A controller application can also send an Indicator command class with the Indicator ID 0x50 (identify) to turn on the LED on the device.

Comm Test / Manual Wake Up
A comm test can be triggered by pressing the orange setup button after removing the bracket. This will cause the device to wake up and send a Wake Up Notification. A solid Green LED indicates a successful comm test.

Wake-Up Notification
The sensor will wake up every so often to send a Wake-Up Notification to allow the lifeline master node controller that the sensor is now available for any queued messages that the controller may have for the sensor. The time between Wake-Up Notifications can be configured with the Wake-Up Notification command class according to the following configurable values:

- Min Value 1 hr
- Max Value 24 hr
- Default Value 12 hours (12 * 60 * 60 seconds)
- Wake Up Interval Step Seconds 1 hour (3600 seconds)

Z-Wave Command Classes

Command Class	Version	Required Security Class
Association	2	Highest granted
Association Group Information	3	Highest granted
Device Reset Locally	1	Highest granted
Firmware Update Meta Data	5	Highest granted
Indicator	3	Highest granted
Manufacturer Specific	2	Highest granted
Multi-Channel Association	3	Highest granted
Powerlevel	1	Highest granted
Security 2	1	None
Supervision	1	None
Transport Service	2	None
Version	3	Highest granted
Z-Wave Plus Info	2	None
Notification	8	Highest granted
Wake Up	2	Highest granted
Configuration	4	Highest granted
Battery	2	Highest granted

Association Command Class

Group Identifier	Max Nodes	Description
1 (Lifeline)	0x05	1. Notification Report a. See the notification CC section for notifications that are sent 2. Battery Report 3. Device Reset Locally Notification

Configuration Command Class
The sensor has the following supported configuration parameters.

Parameter No.	Description	Number of Bytes	Default	Min	Max	Format
1	Heartbeats: This parameter is the number of min utes between heartbeats. Heartbeat s are au- automatic battery reports o n a timer after the last event.	1	70 (0x46)	1 (0x01)	70 (0x46)	0x01 Unsigned
2	A number of application-level retry a ttempts for messages either not AC Ked or messages encapsulated via supervi- sion get that did not receive a report.	1	1 (0x01)	0 (0x00)	5 (0x05)	0x01 Unsigned
3	Application Level Retry Base Wait ti me: The number of base seconds used i n the calculation for sleeping betwee n retry messages.	1	5 (0x05)	1 (0x01)	60 (0x3C)	0x01 Unsigned
4	Button hold-time configuration in sec onds.	1	6 (0x06) (3 sec)	1 (0x01) (0.5 sec)	20 (0x14) (10 sec)	0x01 Unsigned
5	The number of milliseconds waiting f or a Supervisory Report response to a Super- visory Get encapsulated co mmand from the sensor before atte mpting a retry	2	10000 (0x2710)	500 (0x1 F4)	30000 (0 x7530)	0x01 Unsigned
6	One shot timer: Writing to this parameter prompts th e sensor to send a wakeup notificati on one time after this parameter's n umber of seconds. After which it is r eset back to 0.	2	10000 (0x2710)	500 (0x1 F4)	30000 (0 x7530)	0x01 Un- signed

Notification Command Class, V8

Sensor Condition	Command Class and Value	Association Group
Panic Button Press dete cted	Notification Report Type: Home Security 0x0A Event Parameter: 0x04 Panic Alert	1 (Lifeline)
Tampered	Notification Report Type: Home Security 0x07 State: Tampering Product Covering Removed 0x03	1 (Lifeline)

Tamper Cleared	Notification Report Type: Home Security 0x07 State: Previous Events Cleared 0x00 Event Parameter: 0x03	1 (Lifeline)
Setup Button Pressed	Notification Report Type: System 0x09 Event: Heartbeat 0x05	1 (Lifeline)
Watchdog Notification	Notification Report Type: System 0x09 State Value: 0x04 System Software Failure State Parameter Value = 0x55	1 (Lifeline)
Software Fault (Ring)	Notification Report Type: System 0x09 State Value: 0x04 System Software Failure State Parameter Value = 0xAA (Ring Value for Soft Fault	1 (Lifeline)
Software Fault (SDK)	Notification Report Type: System 0x09 State Value: 0x04 System Software Failure State Parameter Value = 0xA9 (SDK Value for Soft Fault)	1 (Lifeline)
Software Fault (Ring)	Type: System 0x09 State Value: 0x04 System Software Failure State Parameter Value = 0xAA (Ring Value for Soft Fault)	1 (Lifeline)
Power On Reset	Notification Report Type: 0x08 Power Management Event Parameter: 0x01 Power has been applied	1 (Lifeline)
Brownout	Notification Report Type: 0x08 Power Management Event: 0x05 Voltage Drop/Drift	1 (Lifeline)
Pinhole Reboot (Soft reset)	Notification Report Type: System 0x09 State Value: 0x04 System Software Failure State Parameter Value = 0xAB	1 (Lifeline)
Dropped Frame	Notification Report Type: System 0x09 State Value: 0x04 System Software Failure State Parameter Value = 0xAD	1 (Lifeline)

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Documents / Resources

	[ring 2nd Gen Ring Alarm Panic Button Z-Wave] [pdf] Instruction Manual 2nd Gen Ring Alarm Panic Button Z-Wave, 2nd Gen, Ring Alarm Panic Button Z-Wave, Alarm Panic Button Z-Wave

References

- User Manual