# Ring Keypad

## Ring Keypad - Basic Setup

**ring**
Keypad
For Ring Alarm

**Home security beyond the front door**

Ring Video Doorbells and Security Cams create a Ring of Security around your entire property.
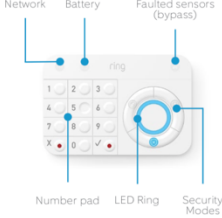
Ring Alarm is the security system that takes your Ring of Security a step further, giving you another level of protection for your property.

Now, you can arm and disarm your system and monitor your home, all from your phone, tablet or PC.

**Contents**

1. Diagram
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**1.**
**Say hello to your Ring Keypad.**

Network    Battery    Faulted sensors (bypass)

Number pad    LED Ring    Security Modes

**2.**
**Set up your Ring Keypad in the Ring app.**

**Set up your Ring Keypad near your Base Station**

To add devices to your Ring Alarm, it must be disarmed. If your Ring Alarm is armed, please disarm it now.

In the Ring app, tap **Set Up a Device** and find Ring Keypad in the **Security Devices** menu.

To complete the setup process, follow the in-app instructions.

**Plug the Keypad into a wall outlet**

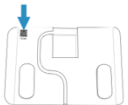Connect the power supply to the Keypad and the wall. The Keypad will turn on.

**3.**
**Connect your Ring Keypad to your Base Station.**

**Follow the in-app instructions to connect the Keypad**

When prompted for the QR Code or PIN, you can find them on the back of the Keypad, on the box, or on a card inside the box.

Keep the Keypad nearby. You'll be prompted to press and hold the "1" button to confirm the connection.

**Track the connection progress of the Keypad**

Your Keypad will try to connect to your Base Station. The Keypad's LED ring will show the progress.

Here are some common LED patterns:

Waiting to connect — Blue Rotating

Connecting to Base Station — Blue Blinking

Connected — Blue Solid for 5 seconds

**4.**
**Install your Ring Keypad on the wall.**

**Place your Keypad**

Place your Keypad in a convenient location, such as near to the door you use most to enter and exit your home.

You can place it on a table or mount it using the reversible bracket.

**Security that moves with you**

Ring Alarm has three security modes to match whatever you're doing.

**Disarmed**
No sensors are monitored. Move freely through the house.

**Away**
All sensors are monitored. Secure your whole house.

**Home**
Some sensors are monitored. Freedom and security, mixed.

Notes:

- This is a SmartStart enabled product which can be added into 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.
- This product can also be operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers.
- This product is not a main operated device.
- Wake up is not supported in this device

## Ring Keypad – Inclusion

**Adding Keypad to a Z-Wave Network**

Ring Keypad can be added via smart start or via classic inclusion mode –

**Note: When prompted for the QR Code or PIN, you can find them on the back of the Keypad, on the box, or on a card inside the box. Keep the Keypad nearby. You'll be prompted to press and hold the "1" button to confirm the connection.**

**Smart Start Inclusion Steps:**
1. Initiate add keypad flow in the Ring Alarm mobile application – Follow the guided add flow instructions provided in the application
2. Scan the QR code found on the package of the keypad or the QR code found on the back of the keypad
3. Plug in the keypad to line power
4. When the inclusion process in complete, the LED on the keypad will be solid blue, then go out.
5. Test the Keypad. Any button presses would beep

**Classic Inclusion Steps:**
1. Initiate add keypad flow in the Ring Alarm mobile application – Follow the guided add flow instructions provided in the application
2. Select add manually and enter the 5 digit DSK pin found on the package of the keypad or the QR code found on the back of the keypad
3. Plugin the keypad to line power
4. Press and hold "1" key for three seconds
5. When the inclusion process is complete, the LED on the keypad will be solid blue, then go out.
6. Test the Keypad. Any button presses would beep

**Ring Keypad – Exclusion**
**Removing a Keypad to a Z-Wave Network**

Exclusion Instructions:
1. Initiate remove keypad flow in the Ring Alarm mobile application – Select the settings icon from device details page and choose "Remove Device"
2. Press and hold "1" key for three seconds
3. When the exclusion process is complete, the LED on the keypad will be solid blue, then go out
4. Test the Keypad. Any button presses would not beep

**Ring Keypad – Reset**
**Factory Default Instructions**
1. Press and hold "5" key and using a pointed end of a paperclip, gently press and release reset button via the reset pinhole found at the back of the keypad
2. Red network LED at the top left-hand corner will start to blink rapidly
3. Wait for the red LED to stop blinking then release the "5" key

Use this procedure only in the event that the network primary controller is missing or otherwise inoperable.

**Ring Keypad EU - Notification Information**

**1. Notification Supported Report:**

> 1. 1 Keypad supports Heat Alarm (0x04) and Home Security (0x07) and Power Management (0x08) and System (0x09).

**2. Event Supported Report:**

> 2.1 Heat Alarm (0x04) : Clear State (0x00), OVERHEAT_DETECTED_UNKNOWN_LOCATION (0x02)
> 2.2 Home Security (0x07): Motion detection (0x08), State idle (0x00)
> 2.3 Power Management (0x08): State idle (0x00), Power has been applied (0x01), AC mains disconnected (0x02), AC mains re-connected (0x03), Battery is charging (0x0C)
> 2.4 System (0x09): SYSTEM_SOFTWARE_FAILURE (0x04) with 0x55

**Ring Keypad EU – Association Information**

**Association - Lifeline**
This keypad has one Association group and Max 1 node. Group 1 is a lifeline group who will receive unsolicited messages relating to entry control notifications, notifications reports, battery report notifications, and device reset locally notifications

**Ring Key EU – Configuration Information**

Ring Keypad offers a wide variety of advanced configuration settings. Below parameters can be accessed from main controllers configuration interface.

| Parameter | Size | Default Value/Dec | Description |
|---|---|---|---|
| 1 (0x01) | 2 | 70 | Battery Report Interval: Default Heartbeat check in time. Available settings: 70-1440 mins. |
| 2 (0x02) | 1 | 1 | Z-Wave Sleep Timeout: Time to wait after receiving ZW for more OTA messages.<br><br>Available settings: 1-5 seconds |
| 3 (0x03) | 1 | 1 | Co-Proc Is Alive: Base Station check to see if the co-proc is operational.<br><br>0 = No 1 = Yes |
| 4 (0x04) | 1 | 5 | Proximity Timeout : Timeout when proximity is detected and no input is received.<br><br>Available settings: 0-30 seconds |
| 5 (0x05) | 1 | 5 | Button Press Timeout : Timeout when a button is pressed, but a sequence is not completed and buttons are no longer being pressed<br><br>Available settings: 0-30 seconds |
| 6 (0x06) | 1 | 15 | Status Change Timeout:<br>Available settings: 10-60 seconds |
| 7 (0x07) | 1 | 0 | Power Mode: Set the battery power saving mode for the keypad. |

| | | | 0=Extended Battery Life 1=Normal Battery Life |
|---|---|---|---|
| 8 (0x08) | 1 | 3 | Key Backlight Timeout: Timeout for keypad LED backlight to stay on between key presses. <br><br> Available settings: 1-15 seconds |
| 9 (0x09) | 1 | 100 | Key Backlight Brightness: Adjusts the brightness of the keypad backlight <br><br> Available settings: 0-100% |
| 10 (0x0A) | 1 | 8 | Key Tone Volume: Volume, Tone Time, Frequency Available settings: 0-10 |
| 11 (0x0B) | 1 | 5 | Ambient Light Sensor Level: Light threshold where keypad will stop backlighting if higher than <br><br> Available settings: 0-100 |
| 12 (0x0C) | 1 | 6 | Siren Volume: Volume to produce loudest output, Needs to be calibrated <br><br> Available settings: 0-10 |
| 13 (0x0D) | 1 | 1 | Proximity On/OFF: Turn On and Off the Proximity Detection. <br><br> 0 = off 1 = on |
| 14 (0x0E) | 1 | 100 | Proximity Distance: Adjusts the proximity distance (CM) If applicable to the product. <br><br> Available settings: 0-100CM |
| 15 (0x0F) | 1 | 50 | Extended Battery Life LED Brightness Adjustment: Percentage of brightness for all LEDs in "Power Mode" = Extended (needs calibration) <br> Available settings: 0-100% |
| 16 (0x10) | 1 | 65 | Reduced Battery Life LED Brightness Adjustment: Percentage of brightness for all LEDs in "Power Mode" = Reduced (needs calibration) <br><br> Available settings: 0-100% |
| 17 (0x11) | 1 | 5 | Fast Blink Rate: LSB = 0.1 sec Fast Rate Type to blink the LEDs <br><br> Available settings: 1-100 |
| 18 (0x12) | 1 | 2 | Slow Blink Rate: LSB = 0.5 sec Slow Rate Type to blink the LEDs |

| | | | Available settings: 1-100 |
|---|---|---|---|
| 19 (0x13) | 2 | 1500 | Supervision Report Timeout. settings: 500-5000 millisecond |
| 20 (0x14) | 1 | 1 | Number of Re-transmissions Attempts. settings: 0-5 |
| 21 (0x15) | 1 | 5 | Wait Period Between Re-transmissions Attempts. settings: 1-60 seconds |
| 22 (0x16) | 1 | 0 (US English) | Available settings: 0~31.<br>Set the languages to the keypad.<br>Get this configuration parameter and you can know the current Language used for this Keypad. |
| 23 (0x17) | 4 | - | Read Only!<br>Configuration Report Value: |

For parameter 22 (0x16):

| Value/Decimal | Languages |
|---|---|
| 0 | US English |
| 1 | UK English |
| 2 | French |
| 3 | German |
| 4 | Italian |
| 5 | Spanish |
| 6 | Dutch |
| 7 | Danish |
| 8 | Norwegian |
| 9 | Swedish |
| 10 | Finnish |
| 11 | Arabic |
| 12-31 | Undefined |

For parameter 23 (0x17):

| | |
|---|---|
| BYTE 0 | |
| BYTE 1 | |
| BYTE 2 | |

| | | | |
|---|---|---|---|
| | | | BYTE 3 | **Bit mask data** for supported languages. LSB format. Detail in below. |
| 24 (0x18) | 3 | - | Read Only!<br>Configuration Report Value:<br><br>| BYTE 0 | Quantity of audio files |<br>| BYTE 1 | Audio file version |<br>| BYTE 2 | Audio file sub version | |