

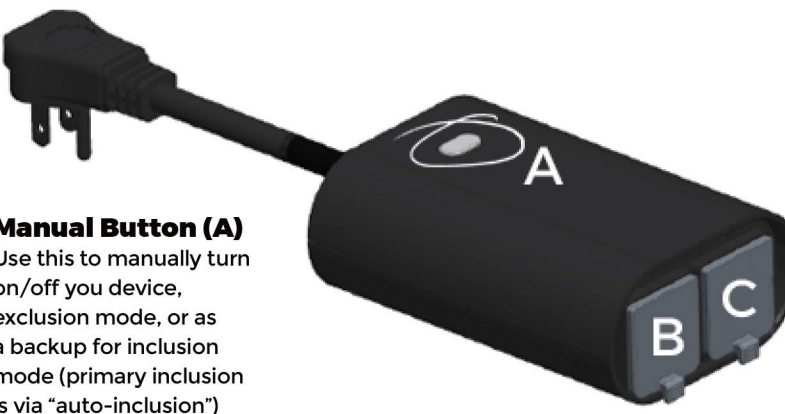
**Thank You.**

Thank you for taking the chance on us. We are truly humbled to be a part of your smart home journey and know that out of the many companies out there, you trusted us to make your life simpler and we don't take that for granted. Our mission is to provide the best products, with the best customer support, at the best prices. Sure, every company says that... but we'd like to think we're different. Why? Well, because we have our own smart homes, with our own desires to make our life simpler through home automation. We wake up every day to lights turning on to different colors based on the weather, coffee automatically brewing before we leave for work, and the thermostat changing based on our schedules. We take our nerdliness seriously by engaging in online groups and design our products around community suggestions and needs. We don't pretend to be a multi-billion dollar corporation worried about their shareholders and bottom line. We're ok with being the little guy. The underdog. Looking out for the best interests of people like us... the everyday smart home enthusiast who is passionate about moving the industry forward and we wouldn't have it any other way. So again, from the bottom of our hearts, thank you for trusting us.

- Team Inovelli

### Meet Your NZW96

Below you'll find the basics about your NZW96, followed by in-depth setup instructions for your specific HUB.



#### Manual Button (A)

Use this to manually turn on/off your device, exclusion mode, or as a backup for inclusion mode (primary inclusion is via "auto-inclusion")

#### Always On Outlet (B)

This is a "pass-through" outlet that is always on (ie: non-smart)

#### Z-Wave Smart Outlet (C)

This is your smart outlet that will be included (paired) to your smart HUB/Gateway

### Device Options

The device has the following options included in the firmware:

- 1) Remembers last power state (Ex: Device was on prior power outage, the device will return on when power is restored)
- 2) High Temperature Protection (Ex: Device will shutdown automatically at 105C / 221F)
- 3) Over-The-Air (OTA) updates
- 4) Z-Wave Plus with S2 Encryption

This device has the following manual options available for customization:

- 1) Invert LED (A) = Hold for 5 sec.
- 2) Disable LED (A) = Hold for 10 sec. "If successful, the LED (A) will blink twice"

In addition, there are parameters that can be set to change the following (please see page 6 for a full list):

- 1) Invert LED
- 2) Disable LED
- 3) Automatic Shutoff (after x seconds)

**HUB Specific Instructions**

All HUB's are different. So, why should your instructions be the same? Below you'll find four (4) different QR Codes along with URL's to their respective landing pages which will walk you through **video and written instructions** on how to setup your NZW96. Or, if you'd like to follow along on Page 4 & 5 of this instruction manual, that's fine too. As always, if you run into any trouble, please reach out to us at: [contact@inovelli.com](mailto:contact@inovelli.com).

#### SmartThings



[inovelli.com/nzw96-setup/smartthings](http://inovelli.com/nzw96-setup/smartthings)

#### Wink



[inovelli.com/nzw96-setup/wink](http://inovelli.com/nzw96-setup/wink)

#### Vera™



[inovelli.com/nzw96-setup/vera](http://inovelli.com/nzw96-setup/vera)

#### Other\*



[inovelli.com/nzw96-setup/other](http://inovelli.com/nzw96-setup/other)

**NOTE: If you're not using SmartThings, Wink or Vera, please scan the, "Other" QR Code**

If you'd prefer to read the instructions on paper, please turn to Page 4. However, please note that SmartThings, Wink & Vera™ regularly update their interfaces, so for the most up to date instructions, we encourage you to go to our website.

**About Z-Wave**

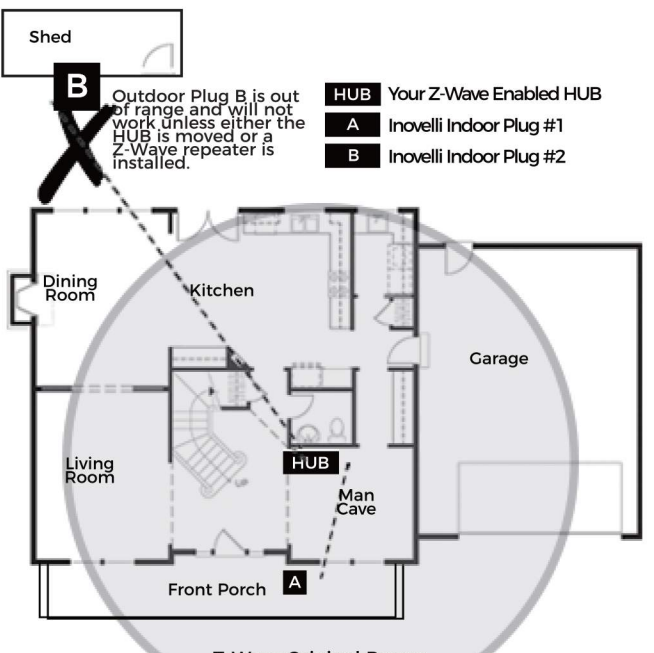
Z-Wave is an incredible technology. With it powering your home, you can choose from over 600 companies and 2100 products, all of which will work with each other. The more devices, the more stable the network. The purpose of this portion of the manual is to help you understand how Z-Wave works (in laymans terms) as well as help you organize an efficient Z-Wave network, setting you up for success in the long run. Afterall, we're assuming you'll want more than one smart home device! Let's get started.

**Z-Wave Network | Using Devices that Repeat Signals**

As referenced in the intro, Z-Wave can be used with a few devices or it can be used to build a large network. Below you'll see two examples. In the first example, a user has a HUB which is looking for Z-Wave devices within its radius. Z-Wave devices outside this radius will not be found and need to either be moved within the radius, or use a repeating device to reach it. The second example shows how a repeater can be used to reach a device outside of the initial radius. Keep this in mind when building your own network and make sure to use the range estimator below.

#### Example #1 -- Original Z-Wave Range

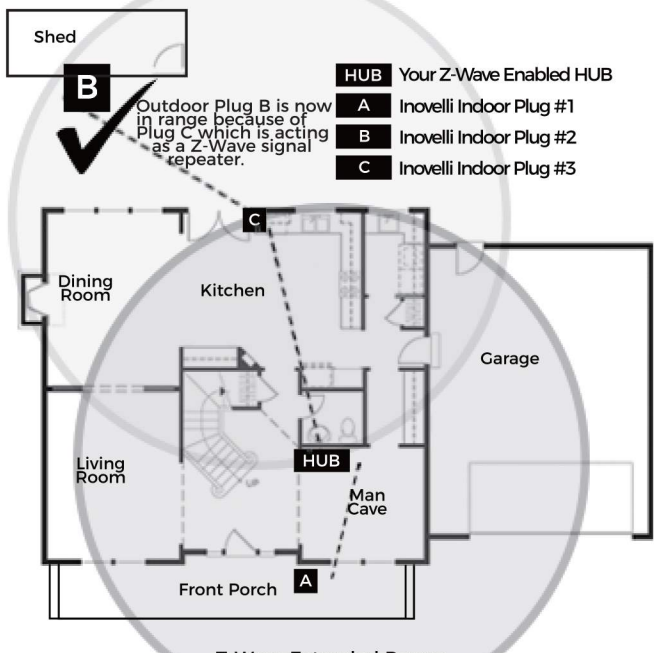
In this example, "Plug A" will work because it is in range of the HUB's Z-Wave antenna, whereas, "Plug B" will not because it is out of the HUB's Z-Wave antenna range. To bring, "Plug B" into range, you will either have to move the HUB or put a Z-Wave repeater along the path as shown in Example #2.



#### Example #2 -- Extended Z-Wave Range

In this example, "Plug B" will now work because it's using, "Plug C" as a repeater to repeat signals to and from the HUB.

Please note: Plugs A & B are also signal repeaters in this example. We just didn't have enough space to show the additional circles!



**NOTE:** Z-Wave range will never be a perfect circle due to walls, furniture, etc. The above is for reference only, please use the Range Estimator below and the Worksheet on Page 3 for a better idea of where to place your outlet or whether or not those outlets will be in range.

#### Z-Wave Range Estimator

Please use the below information to determine the depreciation of the Z-Wave signal. Z-Wave devices should have a distance of approximately 100m (328ft) without any obstacles in the way. Using the below information, if a signal has to travel through an inner wall, it will lose approximately 40% of its signal. Therefore, 100m multiplied by (100% - 40%) = 60m (197ft). Do this for every wall, window, etc and you will have your approximation. There's a worksheet on Page 3 that will help. As always, this is just an estimate. Depending on the manufacturer's quality for your other Z-Wave products, your signal may vary.

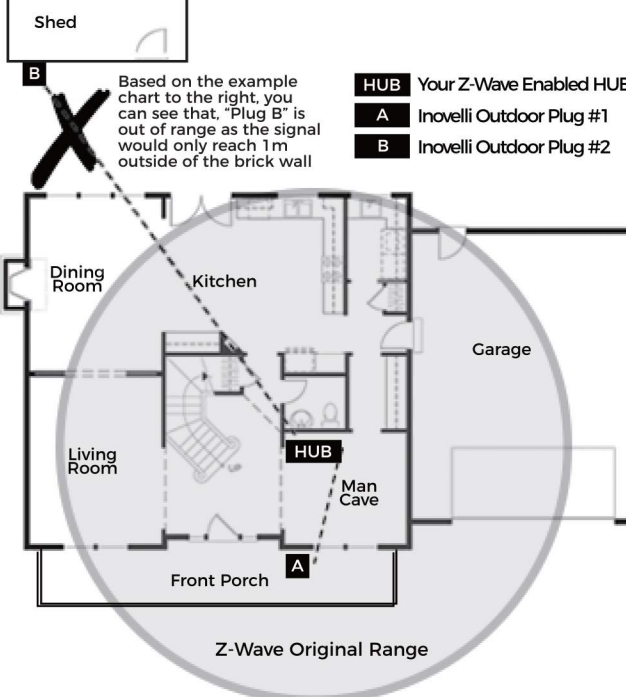
Material	Thickness	Signal Depreciation
Aerated Concrete Stone	< 30cm // 11.8"	20%
Aluminum Coating	< 1mm // 0.04"	100%
Ceiling	< 30cm // 11.8"	70%
Furniture (non-wood)	< 30cm // 11.8"	40-60%
Glass (w/out metal coating)	< 5cm // 2.0"	10%
Inner Wall	< 30cm // 11.8"	40%
Iron Reinforced Concrete	< 30cm // 11.8"	30-90%

Material	Thickness	Signal Depreciation
Metal Grid	< 1mm // 0.04"	90%
Outer Wall	< 30cm // 11.8"	60%
Plaster	< 10cm // 3.9"	10%
Pumice	< 30cm // 11.8"	10%
Red Brick	< 30cm // 11.8"	35%
Stone	< 30cm // 11.8"	30%
Wood	< 30cm // 11.8"	40-60%

**Z-Wave Range Worksheet**

Feel free to use the below worksheet to give an estimate on where you can put your Z-Wave Plug relative to your HUB (or other Z-Wave repeater). Below is an example of how to use the sheet, using, "Example 1" from Page 2.

#### Example #1 -- Original Z-Wave Range



Starting Distance	Obstacle	Signal Depreciation	Ending Distance
100m // 328ft	Inner Wall	40%	60m // 197ft
60m // 197ft	Inner Wall	40%	36m // 118ft
36m // 118ft	Inner Wall	40%	23m // 72ft
23m // 72ft	Wood Cabinet	50%	6m // 36ft
11m // 36ft	Couch	50%	6m // 18ft
6m // 18ft	Outer Wall	60%	2m // 7ft
2m // 7ft	Red Brick	55%	1m // 3ft

For the starting Distance, use 100m. Then look directly from your HUB to wherever you'd like to put the outlet and see what obstacles are in the way. Then list those obstacles on the worksheet below (using the charts from Page 2).

Starting Distance	Obstacle	Signal Depreciation	Ending Distance

**Best Practices for Pairing your NZW96 (1-Channel) Plug-In Module**

Now that you've read how to calculate the Z-Wave range and have determined the best location to put your plug, it's important to understand some best practices of how to pair this device. Below are a few things to keep in mind when you start your individualized pairing instructions (Pages 4-5).

- 1) Auto-Inclusion (ie: Network Wide Inclusion)**

This plug is equipped with Auto-Inclusion. What that means is that as soon as you plug in the module for the first time, it will initiate its pairing/inclusion process and start sending signals to the HUB that it wants to be paired/included. You will have 30 seconds to start the inclusion process on your phone/computer before it times out. So, we suggest you start the Inclusion process first ON YOUR PHONE/PC, and when your HUB is actively looking for the inclusion signal, then plug in your smart plug. We will indicate this in your step by step instructions with a 🦋 icon, indicating you should plug your device in.
- 2) Pair Indoors First, then Move Outdoors**

Even if you have calculated based on the worksheet above that the plug will work in your desired location, it's our recommendation to pair the plug next to your HUB/Gateway to ensure the pairing/inclusion commands are successfully transmitted/received. We then suggest a Z-Wave Refresh (we'll explain below and give you step-by-step instructions on Pages 4-5) to solidify your network.
- 3) Run a Z-Wave Refresh After Successfully Pairing/Including and Your Plug is at its Final Location**

When you have successfully paired/included your device and have moved it to its final location, it's important to run a "Z-Wave Refresh" on your network. In summary, your HUB/Gateway assigns a NodeID to every single Z-Wave device and catalogs those NodeID's into a table to access later when it's sending/receiving information from each. It catalogs where each NodeID is and what neighbors it has around it so that the trasmission signals are efficient. Running a, "Z-Wave Refresh" will tell the HUB to re-catalog the various devices (NodeID's) and update where each device is to, again, optimize the transmission path. NET: Run this when your plug is in it's final location and wait 20 minutes for the path to optimize.
- 4) If You Run Into Any Issues, We're Here to Help... Seriously.**

A lot of problems can be easily taken care of. Whether it's through troubleshooting or a replacement device, we're here to make sure you're setup for success. I know this is an art that has been lost over the years with online companies, but if you do a quick search on Amazon on our listing for, "Customer Service", you'll see many people who call it out. So, from the bottom of our hearts, we are here for you and want your house to be the smartest house on the block. Our email address is at the bottom of the page. We typically respond within an hour during the day as our phones are glued to us!

### General HUB/Gateway Quick Setup

Remember, **DO NOT** plug in your device until you see this icon🦋

The below instructions will allow you to pair/include your NZW96 with any Z-Wave enabled HUB.

**\*\* IMPORTANT: If you are having issues pairing/including your device, please try moving the device as close as possible to the HUB. 95% of the pairing/including failures stem from this issue. Once you've paired/included, you can move to your final location. \*\***

#### STEPS 1 & 2

##### GATHER YOUR MATERIALS, FIND AN APPROPRIATE OUTLET, AND PLUG IN LAMPS OR APPLIANCES

- Materials Needed: Grounded Outlet, Cell Phone/Tablet/Computer, and a Z-Wave enabled HUB/Gateway
- Locate an outdoor outlet which is grounded and within the recommended distance (Pages 2-3) from your HUB/Gateway
- Walls, furniture, and other obstructions may affect the communication between the Plug-In Module and your HUB/Gateway, so please keep this in mind

#### STEP 3

##### ADDING (INCLUDING) TO THE NETWORK & COMPLETING THE SETUP PROCESS

- Now we'll start the inclusion process for your NZW96 Smart Plug
  - Start the inclusion process on your HUB/Gateway
  - Plug in your NZW96 and auto-inclusion will activate. You will have 30 seconds before it times out. If it does time out, the backup method to pair/include the device is to press the button 5 times within 1 second.
- **AGAIN:** If you have issues with including, please move as close as possible to the HUB and try again -- you can always move to your final location when complete

#### STEP 4

##### START A Z-WAVE REFRESH ON YOUR NETWORK

- This step is highly recommended whenever a new Z-Wave device is added to your network. It tells your HUB to re-map the network which, ultimately, will make your network faster and more efficient. The process will vary based on your HUB/Gateway, so please check with the manufacturer to determine how to do this.

### SmartThings Quick Setup

Remember, **DO NOT** plug in your device until you see this icon🦋

The below instructions will allow you to pair/include your NZW96 with your SmartThings HUB. Remember, for the most up to date instructions, please visit our website as occasionally SmartThings updates their app.

**\*\* IMPORTANT: If you are having issues pairing/including your device, please try moving the device as close as possible to the HUB. 95% of the pairing/including failures stem from this issue. Once you've paired/included, you can move to your final location. \*\***

#### STEPS 1 & 2

##### GATHER YOUR MATERIALS, FIND AN APPROPRIATE OUTLET, AND PLUG IN LAMPS OR APPLIANCES

- Materials Needed: Grounded Outlet, Cell Phone or Tablet, and SmartThings HUB (1.0 or 2.0)
- Locate an outdoor outlet which is grounded and within the recommended distance (Pages 2-3) from your HUB
- Walls, furniture, and other obstructions may affect the communication between the Plug-In Module and the SmartThings HUB, so please keep this in mind

#### STEP 3

##### ADDING (INCLUDING) TO THE NETWORK & COMPLETING THE SETUP PROCESS

- Now we'll start the inclusion process for your NZW96 Smart Plug
  - Open up your SmartThings app and click on the, **"My Home"** tab followed by the, **"Things"** tab
  - Scroll to the bottom and click on, **"Add a Thing"**
- Plug in your NZW96 and auto-inclusion will activate. You will have 30 seconds before it times out. If it does time out, the backup method to pair/include the device is to press the button 5 times within 1 second.
  - You should now see that your device is detected (It should say, **"Z-Wave Switch"**)
  - After your device is detected, press, **"Save"** (or if you'd like to rename your device, please do so and click, **"Save"**)
  - Once you click, **"Save"** a pop-up will appear asking you to, **"Confirm Paired Devices"** -- Click, **"OK"**
  - Now, you should be back at the, **"My Home"** screen and you should be able to see your switch!
- **AGAIN:** If you have issues with pairing/including, please move as close as possible to the HUB and try again -- you can move to your final location when complete

#### STEP 4

##### RUN A Z-WAVE REFRESH TO UPDATE YOUR MESH NETWORK WITH YOUR NEW PLUG

- This step is highly recommended whenever a new Z-Wave device is added to your network. It tells your HUB to re-map the network which, ultimately, will make your network faster and more efficient.
  - **Make sure your plug is in its final location before running the Z-Wave Refresh.**
  - In the SmartThings app, click on the, **"Menu"** button, followed by, **"Hub is Online"**
  - Then click, **"Z-Wave Utilities"** followed by, **"Repair Z-Wave Network"** and then, **"Start Z-Wave Network Repair"**
  - Wait 20 minutes for your SmartThings HUB to re-map (rediscover) the network (DO NOT touch anything on your network). Congratulations! You now have a smart outdoor plug!

### Vera™ Quick Setup

Remember, **DO NOT** plug in your device until you see this icon🦋

The below instructions will allow you to pair/include your NZW96 with your Vera™ system. Remember, for the most up to date instructions, please visit our website, as occasionally Vera™ updates their web app.

**\*\* IMPORTANT: If you are having issues pairing/including your device, please try moving the device as close as possible to the HUB. 95% of the pairing/including failures stem from this issue. Once you've paired/included, you can move to your final location. \*\***

#### STEPS 1 & 2

##### GATHER YOUR MATERIALS, FIND AN APPROPRIATE OUTLET, AND PLUG IN LAMPS OR APPLIANCES

- Materials Needed: Grounded Outlet, PC or Mac, and a Z-Wave enabled HUB/Gateway
- Locate an outdoor outlet which is grounded and within the recommended distance (Pages 2-3) from your HUB/Gateway
- Walls, furniture, and other obstructions may affect the communication between the Plug-In Module and the Vera™ HUB, so please keep this in mind

#### STEP 3

##### ADDING (INCLUDING) TO THE NETWORK & COMPLETING THE SETUP PROCESS

- Now we'll start the inclusion process for your NZW96 Smart Plug
  - On the main screen, click on the, **"Devices"** tab and click, **"Add Device"** -- Scroll down to the bottom and click, **"Generic Z-Wave Device"**
  - Under the, **"Pair Your Device"** click, **"Next"** until your HUB goes into inclusion mode
  - Plug in your NZW96 and auto-inclusion will activate. You will have 30 seconds before it times out. If it does time out, the backup method to pair/include the device is to press the button 5 times within 1 second.
  - If successful, you will see a new screen pop up and there will be a notification that says, **"Device Detected"** -- go ahead and name your device
  - Select a room (Optional) and hit, **"Finish"** -- then wait for the device to appear -- you're all set!
- **AGAIN:** If you have issues with including, please move as close as possible to the HUB and try again -- you can always move to your final location when complete

### Wink Quick Setup

Remember, **DO NOT** plug in your device until you see this icon🦋

The below instructions will allow you to pair/include your NZW96 with your Wink HUB. Remember, for the most up to date instructions, please visit our website as occasionally Wink updates their app.

**\*\* IMPORTANT: If you are having issues pairing/including your device, please try moving the device as close as possible to the HUB. 95% of the pairing/including failures stem from this issue. Once you've paired/included, you can move to your final location. \*\***

#### STEPS 1 & 2

##### GATHER YOUR MATERIALS, FIND AN APPROPRIATE OUTLET, AND PLUG IN LAMPS OR APPLIANCES

- Materials Needed: Grounded Outlet, Cell Phone or Tablet, and Wink HUB (1.0 or 2.0)
- Locate an outdoor outlet which is grounded and within the recommended distance (Pages 2-3) from your HUB
- Walls, furniture, and other obstructions may affect the communication between the Plug-In Module and the Wink HUB, so please keep this in mind

#### STEP 3

##### ADDING (INCLUDING) TO THE NETWORK & COMPLETING THE SETUP PROCESS

- Now we'll start the inclusion process for your NZW96 Smart Plug
  - Open your Wink app, click on the menu, scroll to the bottom and click on, **"Add to Wink"**
  - Next select, **"Lighting"** followed by, **"Switches"** and finally, **"Generic Z-Wave Binary Switch"**
  - Then click, "Next" (where it says, **"Refer to the product manual..."**)
  - On the, **"Select HUB"** screen, select your HUB of choice, followed by, **"Next"** -- then click, **"Next"** again, followed by, **"Connect Now"** and your HUB will start flashing BLUE
  - While your HUB is flashing, plug in your NZW96 and auto-inclusion will activate. You will have 30 seconds before it times out. If it does time out, the backup method to pair/include the device is to press the button 5 times within 1 second.
  - If successful, your HUB will flash GREEN & say, "Success" -- Go ahead and name your switch
- **IMPORTANT:** Sometimes Wink will give you the error, *"This is taking longer than expected"* -- If your HUB flashed GREEN, exit out of the app and re-open it. You should see your switch there (named, "Switch") -- feel free to rename it by holding down on it for 3 seconds
- **AGAIN:** If you have issues with pairing/including, please move as close as possible to the HUB and try again -- you can move to your final location when complete

#### STEP 4

##### RUN A Z-WAVE REFRESH TO UPDATE YOUR MESH NETWORK WITH YOUR NEW PLUG

- This step is highly recommended whenever a new Z-Wave device is added to your network. It tells your HUB to re-map the network which, ultimately, will make your network faster and more efficient.
  - **Make sure your plug is in its final location before running the Z-Wave Refresh.**
  - In the Wink app, click on the, **"Menu"** button, followed by, **"Hubs"** and then, settings (gear icon)
  - From the settings menu, click on the actual HUB you paired your device to
  - Scroll down and select, **"Z-Wave Controls"** and then press, **"Z-Wave Network Rediscovery"**
  - Wait 20 minutes for your Wink HUB to re-map (rediscover) the network (DO NOT touch anything on your network).
  - Congratulations! You now have a smart outdoor plug!

### Federal Communications Commission (FCC) Statement

**FCC Caution:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna, increase the separation between the equipment and receiver, connect the equipment into an outlet on a circuit different from that to which the receiver is connected or consult the dealer or an experienced radio/TV technician for help. This equipment should be installed and operated with minimum distance 8in (20cm) between the radiator and your body.

**IC Caution:** This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

**DECLARATION DE CONFORMITE D'INDUSTRIE CANADA:** Ce périphérique a été testé et reconnu conforme aux limites spécifiées dans RSS-210. Son utilisation est soumise aux deux conditions suivantes: (1) il ne doit pas provoquer d'interférences gênantes et (2) il doit tolérer les interférences re.ues, notamment cellesusceptibles d'en perturber le fonctionnement.

### Warranty, Specifications & Warnings

**Warranty:** inovelli will replace any defective unit for the lifetime of the unit, pending the unit was used in the manner it was intended to. Please email us at: [contact@inovelli.com](mailto:contact@inovelli.com) to receive a pre-paid shipping label for the return of your defective unit.

**Specifications:**

Model: ZW96

Power: 120V AC, 60Hz

Signal (Frequency): 908.42 MHz

Maximum Load for the, "Always On" Outlet: 1800W (15A) Resistive

Maximum Load for the Z-Wave Outlet: 1800W (15A) Resistive

Maximum Load for both outlets (if using them simultaneously): 15A

Range: Up to 100 meters line of sight between the Wireless Controller (HUB) and the closest Z-Wave Module

Operating Temperature Range: -4 -122° F ( -20 -50° C)

For outdoor use, IP65 Rated.

Specifications subject to change without notice due to continuing product improvement



Approval: UL/FCC/Z-Wave Plus Certified

UL: E464831

FCC ID: OXGZW97

### Resetting Your Device

Please use your controller to remove the device from the network. To factory reset, hold down the manual button (A) for five (5) seconds when powered on. However, please only use this method if your controller is missing or inoperable.

**Warnings:**

RISK OF FIRE

RISK OF ELECTRICAL SHOCK

RISK OF BURNS

RISK OF BURNS

CONTROLLING APPLIANCES: EXERCISE EXTREME CAUTION WHEN USING Z-WAVE DEVICES TO CONTROL APPLIANCES. OPERATION OF THE Z-WAVE DEVICE MAY BE IN A DIFFERENT ROOM THAN THE CONTROLLED APPLIANCE. ALSO AN UNINTENTIONAL ACTIVATION MAY OCCUR IF THE WRONG BUTTON ON THE REMOTE IS PRESSED. Z-WAVE DEVICES MAY AUTOMATICALLY BE POWERED ON DUE TO TIMED EVENT PROGRAMMING, DEPENDING UPON THE APPLIANCE. FOR THESE REASONS, WE RECOMMEND YOU DO NOT RETURN THIS PRODUCT TO THE STORE, BUT RATHER CONTACT THE MANUFACTURER OF THE PRODUCT TO ARRANGE AN EXCHANGE OR REFUND IF THE PRODUCT IS DEEMED DEFECTIVE

[www.inovelli.com/nzw96-setup](http://www.inovelli.com/nzw96-setup)
[contact@inovelli.com](mailto:contact@inovelli.com)
Page 6