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# 1.6 User Manual

# Wireless Z-Wave Control ZRP-100NA **Z-Wave Repeater**

# **USER MANUAL**





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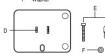
Device / Light / Node	Devices, lights and nodes are all terms to describe an individual Z- Wave device. These terms are all interchangeable when setting up you Z-Wave network.	
Z-Wave Network	A collection of Z-Wave devices are controlled by primary and second ary controllers operating on the same system. A Z-Wave network has its own unique ID code so that controllers not in the network cannot control the system.	
Inclusion	Add a Z-Wave device to the network.	
Exclusion	Delete a Z-Wave device from the network.	
Network Wide Inclusion (NWI)	Network Wide Inclusion (NWI) enables both end-user friendly. Plug an Play like Z-Wave network installation as well as professional installation scenario where the inclusion process in terms of time will be reduced significantly. NWI is a feature supported by a new frame type name Explorer which enables the Z-Wave protocol to implement Adaptive Source Routing.	

- Key Features:
   Supports Network Wide Inclusion (NWII) and Explore Frames
   Reliable and best RP performance to repeat Z-Wave signals
   Ultra-low power consumption
   Complex, his mad small size form factor
   Does not block lower outlet when plugged into upper outlet of a duplex wall receptacle and vice versa
   External fixture for different wall receptacle mounting

### Product Overview:

- Status LED PROG Push button Fixing hole





# Installation Location

WARNING
To avoid firs, shock, or death; un of power at the circuit breaker or fuse and test
that the power is of before dismounting or muniting the unit with the screw!
In case that the user needs to mount the unit with a screw, please refer to below
figures and select the desired configuration. It is recommended that a qualified
electrician perform this installation.







Note: When plug the ZRP-100 into the AC receptacles, there will be an air gap betw ZRP-100 and wall plate. User can use additional 1 or 2 washers to fill up this air and to stabilize the installation.

ZRP-100 will not block lower outlet when plugged into upper outlet of a duplex wall recentacle and vice versa. Possible configurations are illustrated below.

	Un-grounded AC outlet with center screw	Grounded AC outlet with center screw	Grounded AC outlet with upper and lower screw
Installed at upper AC outlet			
Installed at lower AC outet			

### Z-Wave setup and operations

Z-Wave inclusion and exclusion Include or exclude the ZRP-100 from the existing Z-Wave home control network with

Include of excition the care-hor manner exemply your primary controller.

Refer to your primary controller instructions to process the inclusion / exclusion setup promoted.

When prompted by your primary controller, tiple dick, the PROG button within 1 second. (The unit will enter classical inclusion/exclusion first, then jump to NMI, and after 5 seconds, it will finally exit NMI mode automatically if there is no instance inclusion nanional?

inclusion/exclusion request).

The primary controller should indicate that the action was successful. If the controller indicates the action was unsuccessful, please repeat the procedure. NOTE: Basic Command Class will not map to another command class in ZRP-100.

Operations	LED Indication Status  LED will continuously flashtwo times per second.	
Device not currently paired into a Z-Wave network		
Learning / NWI mode: Triple dick on PROG button	If the device already existing in the network, LED will flash slowly for 2 seconds, and then return to previous ON or OFF stage.  If the device descent exist in thenetwork, LED will keep flash slowly and waiting for Network Wide Inclusion (NMI).  (The device will exist NWI mode automatically after 5 seconds)	
Receive command / Send command or data	LED will flash 2 times, and then return to previous ON or OFF stage.	
Configure command error	LED will rapidly flash6 times, and then return to previous ON or OFF stage.	

### Restoring Factory Defaults

All Configuration Parameter values and Association information will be restored to factory default settings and excluded from the network.

Step	Setup Key LED Indication Status	
1	Press and keep holding the PROG button for nt less than 10 seconds.	LED state will toggle for first 5 seconds of being pressed.     LED state will toggle again after the remaining 5 seconds.
2	Release the PROG button then triple click the PROG button within 2 seconds of step 1.	<ul> <li>LED will stay in previous ON or OFF stage.</li> </ul>

# Wireless Information

Wireless ange:

This device has an open-air line-of-sight transmission distance of 30m, which is compliant with 2e-2 Value standards. Performance can vary depending on the type of obstacles, such as walls and furniture, between the 2-Valve devices E-vey 2-2 Wave device set up in your retwork will act as the property of the standard property and the property of the standard property of the stan

Radio Frequency Limitations:

1. Each wall or object (i.e. refigerator, bookshelf, large TV, etc) can reduce the maximum range by up to 20-30%. Rasterboard and wooden walls will have less effecton the signal than concrete, bock, or tile.

2. Wall mounted Z-Wave devices will also suffer a loss of range if they are housed in metal junction boxes, which could reduce the range by up to 20-30%.





- Maintenance
  1. Do not expose your unit to dust, strong sunlight, humidity, high temperatures or mechanical shocks.
  2. Do not use corrosive or abrasive deamners or your unit.
  3. Keep the unit dust the by widing it with a soft, dry cloth.
  4. Do not disassemble your unit, it contains no user-serviceable parts.

### **Technical Specifications**

Model no.	BW8140US (ZRP-100NA)
RF frequency	908.42MHz
Input voltage / frequency	120Vac/ 60Hz
Input power and current	0.5W / 12mA @ 120Vac
RF operating distance	up to 30m (line of sight between the Wireless Controller and the closest Z-Wave receiver module at open area.)
Dimension (LxWxT)	64 x 48 x 23mm
Weight	50g
Storage Temperature	-10-60°C
Operation Temperature	0~40°C
Relative Humidity	5-95%
Environment	Indoor use only

### Certifications

UL Listed:
This power unit is intended to be correctly orientated in a vertical or floor mount

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This power unit is intended to be correctly crientated in a vertical or foor mount position.

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FCC Information
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FCC In 2ADPENNOC14.
This device concilies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(2) his device must accept any interference, and
(2) his 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 potection against harmful interference in rare interference and in radiate radio frequency energy and, if not installed and useful in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference by not common for the following measures:

In common the common formation of the following measures:

Recrifer or relicate the recolving natherna.

In crosse the separation between the equipment and recolver.

Connect the equipment int and outlet on a circuit different from that to which the recolver is connected.

Consult the delater or an experienced satioTV technician for help.

Notice: Changes or modifications to his unit not expressly approved by the party resconsible for commissione due to use a sufficiency to operate the equipment.

Notice: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

IC information
IC: 12524A4NNO014
This device complies with Industry Canada Icence-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.

- Warnings

   Do not modify the unit in any way.
   Resk of feet,
   Resk of lectrical shock.
   Resk of burns.
   Risk of burns.
   Risk of burns.
   This unit never got qualified certificate to supply power for medical instrument or any life support equipment.
   Do not dispose of electrical appliances and unsorted municipal waste, use separate collection facilities. Contact your local government for information recarding the collection systems available.
- regarding the collection systems available.

   There are no user serviceable parts in this unit.

Warranty
ONE-YEAR LIMITED WARRANTY: Remotes warrants this product to be free from
defects in materials and workmanship under normal use and service for a period of
one year from the original date of purchase from the distributor or dealer.

- REMOTEC shall not be liable for:

   Damages caused by defective devices for indirect, incidental, special, consequental or punitive damages, including, iter alla, loss of profits, savings, data, loss of benefits, dains by third parties and any properly damage or personal injuries arising from or related to the use of the device.

   Service tips to provide instruction on product use.

   Shipping costs for replacement products.

This warranty is limited to the repair or replacement of this product only, if the purchase date cannot be substantiated, the warranty period will begin on the date of manufacture as indicated on this product. All warranty claims must be made to Remotec appointed distributors or dealers during the applicable warranty period. This warranty gives you specific legal right and you may also have other sights witch vary in each country. Please contact Customer Service at

Remotec Technology Limited E-mail: rtlsales@remotec.com.hk http://www.remotec.com.hk