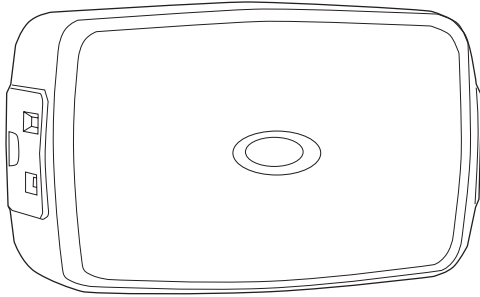


NuTone®



NPS15Z

Z-Wave Radio Frequency (RF) Controlled
Plug-In Appliance Module
15 Amps, 120 VAC, Series 300



Button Functions

1. Adds module under the command of Wireless Controller.
2. Local ON and OFF (push and release).

NOTE: This module must be “included in the Network” **only where it will be permanently installed.** You cannot “test bench” configure this module, then install. The proper operation of this node in the mesh network is dependent on it knowing its location with respect to other nodes.

NPS15Z PLUG-IN APPLIANCE MODULE

NuTone’s family of Z-Wave® certified wireless lighting controls (switches, dimmers, outlets and plug-in modules) brings a new level of intelligent wireless capability to commercial and residential environments.

The Z-Wave wireless protocol is an international wireless standard for remote home automation, security and other applications. Embedded in each device, the Z-Wave smart chip enables two-way RF communication among hundreds of Z-Wave enabled devices, allowing products and services from multiple manufacturers to work seamlessly.

NuTone Z-Wave products are easy to install, and allow dealers to create an integrated wireless network with nearly limitless expansion and interoperability with security and health monitoring systems, energy management, home entertainment, appliances, and more.

This product supports 40Kbps data transmission. This product can also be used for network support in systems that stream metadata. An example might include transmission of information from audio devices such as song title, artist, and album information to various displays around the home. As part of a Z-Wave network, the NPS15Z will act as a wireless repeater to insure that commands intended for another device in the network are received. This is useful when the device would otherwise be out of the radio range of the wireless controller.

INSTALLATION

Plug this Appliance Module into the wall outlet near the load to be controlled, and plug the load into the Appliance Module. Make sure the load to be controlled is 15 amps (1800 watts) or less.

To reduce the risk of electric shock, this product has a grounded type plug that has a third (grounding) pin. This plug will only fit into a grounding type power outlet. If the plug does not fit into the outlet, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.

INCLUDING NPS15Z TO THE NETWORK

1. Prepare the Controller to include a unit to the network, by adding it to a group (method of adding a node to the network). Refer to controller instructions.
2. **The NPS15Z must be in its permanently installed location.** Tap the button on the NPS15Z once.
3. You should see an indication on your Controller that the “DEVICE WAS INCLUDED” in the network.

✓ **NOTE:** If you have trouble adding the NPS15Z to a group it may be that the Home ID and Node ID were not cleared from it after testing. You must first “RESET UNIT” with your controller to remove it from the network. Although adding it to a group includes it in the network, removing it from a group does not remove it from the network. If removed from a group, it functions only as a repeater.

INTEROPERABILITY WITH Z-WAVE™ DEVICES

A Z-Wave network can integrate devices of various classes of products, and these devices can be made by different manufacturers. The NPS15Z has Z-Wave certification which guarantees interoperability.

BASIC OPERATION

Button (Local Control)

The button on the NPS15Z allows the user to:

- Turn the attached load on or off.
- Include or exclude the module from the Z-Wave system.

When a controller prompts you to “Send Node ID” or to “Press Button on Unit”, quickly tap the button once to satisfy those instructions. Tapping button toggles the load attached ON or OFF.

Remote Control

The NPS15Z will respond to BASIC and BINARY commands that are part of the Z-Wave system. Refer to your controller’s instructions as to whether your controller can transmit those commands.

ADVANCED OPERATION

Protection

The NPS15Z supports the Protection Command. The NPS15Z can be set to any one of three **Protection** modes by a wireless controller. Refer to your controller for information on how to set the various modes of **Protection**. Some controllers may only be able to set certain settings of Protection:

There are three modes of **Protection** and they are the following:

- No protection
- Child protection
- Local Button totally disabled

No Protection

When **Protection** is set to “No Protection” mode, the NPS15Z works normally, unit will turn on and off with the button on the unit, or with the wireless controller.

Child Protection

When **Protection** is set to “Child Protection” mode, you are required to press the button on the unit 3 times rapidly to control the attached load. The NPS15Z continues to operate normally using a wireless controller.

Button Totally Disabled

When **Protection** is set to “Button totally disabled” mode the button will not work to turn the unit on or off. The button can still be used, however, to access the Z-Wave network. The NPS15Z continues to operate normally using a wireless controller.

All On/All Off

The NPS15Z supports the ALL ON/ALL OFF commands.

The NPS15Z can be set to respond to ALL ON and ALL OFF commands four different ways. Refer to your controller for information on how to set the NPS15Z to operate in the manner you desire. Some controllers may be only able to set certain settings of ALL ON / ALL OFF response.

The four different ways the NPS15Z can be set up to respond to ALL ON and ALL OFF commands are:

- NPS15Z will not respond to ALL ON or the ALL OFF command.
- NPS15Z will respond to ALL OFF command but will not respond to ALL ON command.
- NPS15Z will respond to ALL ON command but will not respond to ALL OFF command.
- NPS15Z will respond to ALL ON and the ALL OFF command.

Manufacturer Specific

The NPS15Z supports the Manufacturer Specific command. The NPS15Z can return Manufacturer Specific information about itself. Refer to your Controller's instructions on how to get this information from the NPS15Z.

SUC Support

There must be a Static Update Controller in your Z-Wave system for this feature to work. The Static Controller can act as a gateway in the system, since other nodes always know its position (not moved after addition to the network. The "always listening" advantage of the Static Controller is that other nodes can transmit information frames to it whenever needed. You can assign a "SUC Route" to the NPS15Z. Refer to your controller's instructions on how to do this (if it supports it). Assigning an SUC Route to the NPS15Z allows it to request an update of the Z-Wave devices that are between it and the Z-Wave device to which it was trying to transmit. The NPS15Z will only request an update when a transmission fails.

CONFIGURATION

The NPS15Z supports the Configuration command. The NPS15Z can be configured to operate slightly differently that it works when you first install it. Using the configuration command you can change the following (if your controller supports it).

Set this parameter to 1 for normal ON/OFF operation. Set this parameter to 0 to enable flash mode which operates as follows:

- With Parameter 104 value set to 0, relay is closed and NPS15Z defaults to ON (relay closed)
- Whenever the NPS15Z receives a Z-Wave ON command, the NPS15Z will begin cycling its output relay on and off approximately once per second (1/2 second Off, 1/2 second On) for 20 seconds.
- If at any time during that 20 seconds, the NPS15Z receives a Z-Wave OFF command, the NPS15Z will stop cycling its output relay and default to ON.
- At any time during that 20 seconds, if the NPS15Z receives a Z-Wave ON command, the NPS15Z will add an additional 20 seconds on/off cycling of its output relay. At the end of the 20 seconds, the NPS15Z will again default to ON (relay closed).
- At any other time, if the NPS15Z receives an OFF command, it will have no effect and the NPS15Z remains ON.

SPECIFICATIONS

Power:	120VAC, 60 Hz
Signal (Frequency):	908.42 MHz
Load:	Incandescent: 600W maximum, 120VAC Resistive: 15 amps (1800 watts) maximum 120 VAC Motor: 1/2 H.P. maximum, 120 VAC
Range:	Up to 100 feet line of sight between the Controller and or closest Z-Wave repeater

REGULATORY INFORMATION

The NPS15Z is certified to comply with applicable FCC and IC rules and regulations governing RF and EMI emissions.

FCC NOTICE

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.
- Consult the dealer or an experienced radio/TV technician for help.

IC NOTICE

This Class B digital apparatus complies with Canadian ICES-003. 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.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Les changements ou modifications non approuvés expressément par la partie responsable de la conformité pourrait annuler l'autorité de l'utilisateur à faire fonctionner l'équipement.

LIMITED WARRANTY

WARRANTY PERIOD AND EXCLUSIONS: Broan-NuTone LLC (the "Company") warrants to the original consumer purchaser of its product (the "Product") that the product will be free from material defects in the Product or its workmanship for a period of one (1) year from the date of original purchase. The warranty on the light bulbs provided with the product is one (1) year and does not cover lamp/bulb breakage. This warranty does not cover accessories or parts that may be purchased separately and installed with the Product.

The limited warranty period for replacement parts, and for Products repaired or replaced under this limited warranty, shall continue for the remainder of the original warranty period.

NO OTHER WARRANTIES: THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED. THE COMPANY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, AND DISCLAIMS AND EXCLUDES ALL WARRANTIES IMPLIED BY LAW, INCLUDING WITHOUT LIMITATION THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT THAT APPLICABLE LAW PROHIBITS THE EXCLUSION OF IMPLIED WARRANTIES, THE DURATION OF ANY APPLICABLE IMPLIED WARRANTY IS LIMITED TO THE PERIOD SPECIFIED FOR THE EXPRESS WARRANTY. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Any oral or written description of the Product is for the sole purpose of identifying it and shall not be construed as an express warranty.

REMEDY: During the applicable limited warranty period, the Company will, at its option, provide replacement parts for, or repair or replace, without charge, any Product or part thereof, to the extent the Company finds it to be covered by and in breach of this limited warranty under normal use and service. The Company will ship the repaired or replaced Product or replacement parts to you at no charge. You are responsible for all costs for removal, reinstallation and shipping, insurance or other freight charges incurred in the shipment of the Product or part to the Company. The Company reserves the right to utilize reconditioned, refurbished, repaired or remanufactured Products or parts in the warranty repair or replacement process. Such Products and parts will be comparable in function and performance to an original Product or part and warranted for the remainder of the original warranty period. This warranty does not cover (a) normal maintenance and service including light bulbs, batteries or other accessories, (b) normal wear and tear, (c) any Products or parts which have been subject to misuse, abuse, abnormal usage, negligence, accident, improper or insufficient maintenance, storage or repair (other than repair by the Company), (d) damage caused by faulty installation, or installation or use contrary to recommendations or instructions, (e) any Product that has been moved from its original point of installation, (f) damage caused by environmental or natural elements, (g) damage in transit, (h) natural wear of finish, (i) Products in commercial or nonresidential use, or (j) damage caused by fire, flood or other act of God. This warranty covers only Products sold to original consumers in the United States by the Company or U.S. distributors authorized by the Company.

EXCLUSION OF DAMAGES: THE COMPANY'S OBLIGATION TO PROVIDE REPLACEMENT PARTS, OR REPAIR OR REPLACE, AT THE COMPANY'S OPTION, SHALL BE YOUR SOLE AND EXCLUSIVE REMEDY UNDER THIS LIMITED WARRANTY AND THE COMPANY'S SOLE AND EXCLUSIVE OBLIGATION. THE COMPANY SHALL NOT BE LIABLE FOR INCIDENTAL, INDIRECT, CONSEQUENTIAL OR SPECIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE PRODUCT, ITS USE OR PERFORMANCE. Incidental damages include but are not limited to such damages as loss of time and loss of use. Consequential damages include but are not limited to the cost of repairing or replacing other property which was damaged if the Product does not work properly.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

This warranty supersedes all prior warranties and is not transferable from the original consumer purchaser.

THE COMPANY SHALL NOT BE LIABLE TO YOU, OR TO ANYONE CLAIMING UNDER YOU, FOR ANY OTHER OBLIGATIONS OR LIABILITIES, INCLUDING, BUT NOT LIMITED TO, OBLIGATIONS OR LIABILITIES ARISING OUT OF BREACH OF CONTRACT OR WARRANTY, NEGLIGENCE OR OTHER TORT OR ANY THEORY OF STRICT LIABILITY, WITH RESPECT TO THE PRODUCT OR THE COMPANY'S ACTS OR OMISSIONS OR OTHERWISE.

This warranty covers only replacement or repair of defective Products or parts thereof at the Company's main facility and does not include the cost of field service travel and living expenses.

GENERAL PROVISIONS: (1) Any assistance Company provides to or procures for consumer outside the terms, limitations or exclusions of this warranty will not constitute a waiver of such terms, limitations or exclusions, or extend or revive the warranty. (2) Any action by you for breach of this limited warranty must be commenced within one year after the breach occurs. (3) Whenever possible, each provision of this limited warranty shall be interpreted in such manner as to be effective and valid under applicable law, but if any portion is deemed invalid or unenforceable, the remaining portions shall still be enforceable. The Company will not reimburse you for any expenses incurred by you in repairing or replacing any defective Product, except for those incurred with the Company's prior written permission.

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HOW TO OBTAIN WARRANTY SERVICE: To qualify for warranty service, you must (a) notify the Company at the address or telephone number stated below within seven (7) days of discovering the covered defect, (b) give the model number and part identification and (c) describe the nature of any defect in the Product or part. At the time of requesting warranty service, you must present evidence of the original purchase date. If you cannot provide a copy of the original written limited warranty, then the terms of the Company's most current written limited warranty for your particular product will control. The most current limited written warranties for the Company's products can be found at www.NuTone.com.

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If you must send the Product or part to the Company, as instructed by the Company, you must properly pack the Product or part—the Company is not responsible for damage in transit.