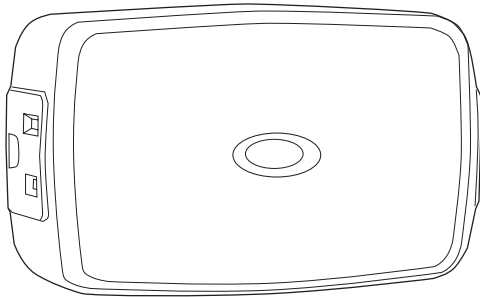


NuTone®



NPD300Z

Z-Wave Radio Frequency (RF) Controlled
Plug-In Lamp Module
300 Watts, 120 VAC, Series 300



Button Functions

1. Use to include module under the command of a Controller.
2. Local ON and OFF (push and release).
3. Local dimming (hold down).

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.

NPD300Z PLUG-IN LAMP 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 networking 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 NPD300Z can 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 Lamp Module into the wall outlet near the lamp to be controlled, and plug the lamp into the Lamp Module. Make sure the lamp(s) to be controlled total no more than 300 watts.

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.

WARNING: Plugging a non-resistive load such as florescent lighting or a device with a motor may result in damage to the Lamp Module and will void the warranty.

INCLUDING NPD300Z 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 NPD300Z must be in its permanently installed location.** Tap the button on the NPD300Z 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 NPD300Z 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 NPD300Z has Z-Wave certification which guarantees interoperability.

BASIC OPERATION

Button (Local Control)

The button on the NPD300Z allows the user to:

- Turn ON, OFF, or DIM and BRIGHTEN the load attached to the controlled outlet.
- Tapping button toggles the load attached.
- Pressing and holding the button will dim or brighten the load attached.

Operation Note

When a light bulb reaches the end of it’s life and burns out, it sometimes creates a momentary short circuit. The high current that results may cause the dimmer to respond by turning off. Should this happen, replace the bulb with a new one. The dimmer can now be operated to restore power to the light.

Remote Control

The NPD300Z will respond to Basic, Multilevel and Scene Activation 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 NPD300Z supports the Protection Command. The NPD300Z 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 NPD300Z 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 NPD300Z 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 NPD300Z continues to operate normally using a wireless controller.

All On/All Off

The NPD300Z supports the ALL ON/ALL OFF commands.

The NPD300Z 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 NPD300Z 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 NPD300Z can be set up to respond to ALL ON and ALL OFF commands are:

- NPD300Z will not respond to ALL ON or the ALL OFF command.
- NPD300Z will respond to ALL OFF command but will not respond to ALL ON command.
- NPD300Z will respond to ALL ON command but will not respond to ALL OFF command.
- NPD300Z will respond to ALL ON and the ALL OFF command.

Manufacturer Specific

The NPD300Z supports the Manufacturer Specific Command. The NPD300Z can return Manufacturer Specific information about itself. Refer to your controller's instructions on how to get this information from the NPD300Z.

CONFIGURATION

The NPD300Z supports the Configuration command. The NPD300Z can be configured to operate slightly differently than it works when you first install it. Using the configuration command you can change the following (if your controller supports it)

Load Sense:

- **Parameter No 29**
- **Length: 1 Byte**
- **Valid Values = 0 or 1 (default 1)**

Set this parameter to 0 to disable load sense. Set this parameter to 1 to enable load sense.

SPECIFICATIONS

Power:	120VAC, 60 Hz
Signal (Frequency):	908.42MHz
Maximum Load:	300 W, for incandescent lamps only NOTE: A minimum of 20 watt load is recommended for the "Load Sense" feature and dimming capabilities of this product to operate properly.
Range:	Up to 100 feet line of sight between the Controller and or closest Z-Wave repeater

REGULATORY INFORMATION

The NPD300Z 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 EXPRESS 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.

Broan-NuTone LLC 926 West State Street, Hartford, WI 53027 www.NuTone.com Toll Free (855) 249-0610

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.