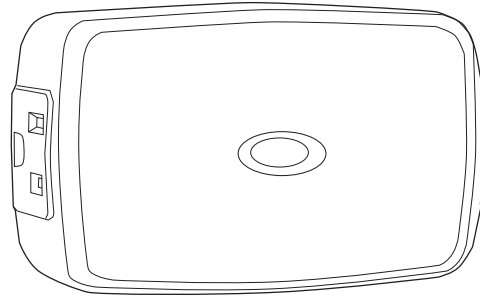




Button Functions

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.

PS15Z-2 PLUG-IN APPLIANCE MODULE

Linear’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.

Linear 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 PS15Z-2 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.

INCLUDING PS15Z-2 TO THE NETWORK

STEP 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.

STEP 2. The PS15Z-2 must be in its permanently installed location. Tap the button on the PS15Z-2 once.

STEP 3. You should see an indication on your Controller that the “DEVICE WAS INCLUDED” in the network.

NOTE: If you have trouble adding the PS15Z-2 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.

BASIC OPERATION

Button (Local Control)

The button on the PS15Z-2 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 PS15Z-2 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 PS15Z-2 supports the Protection Command.

The PS15Z-2 can be set to any 1 of 3 **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 3 modes of **Protection** and they are the following:

1. No protection
2. Child protection
3. Local Button totally disabled

When **Protection** is set to “No Protection” mode, the PS15Z-2 works normally, unit will turn on and off with the button on the unit, or with the wireless controller.

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 PS15Z-2 continues to operate normally using a wireless controller.

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 PS15Z-2 continues to operate normally using a wireless controller.

All On/All Off

The PS15Z-2 supports the ALL ON/ALL OFF commands.

The PS15Z-2 can be set to respond to ALL ON and ALL OFF commands 4 different ways. Refer to your controller for information on how to set the PS15Z-2 to operate in the manner you desire. Some controllers may be only able to set certain settings of ALL ON/ALL OFF response. The 4 different ways the PS15Z-2 can be set up to respond to ALL ON and ALL OFF commands are:

- PS15Z-2 will not respond to ALL ON or the ALL OFF command.
- PS15Z-2 will respond to ALL OFF command but will not respond to ALL ON command.
- PS15Z-2 will respond to ALL ON command but will not respond to ALL OFF command.
- PS15Z-2 will respond to ALL ON and the ALL OFF command.

Manufacturer Specific

The PS15Z-2 supports the Manufacturer Specific command. The PS15Z-2 can return Manufacturer Specific information about itself. Refer to your Controller's instructions on how to get this information from the PS15Z-2.

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 an "SUC Route" to the PS15Z-2. Refer to your controller's instructions on how to do this (if it supports it). Assigning an SUC Route to the PS15Z-2 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 PS15Z-2 will only request an update when a transmission fails.

Configuration

The PS15Z-2 supports the Configuration command.

The PS15Z-2 can be configured to operate slightly differently that it works when you first install it. Using the configuration command you can configure 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 PS15Z-2 defaults to ON (relay closed)
- Whenever the PS15Z-2 receives a Z-Wave ON command, the PS15Z-2 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 PS15Z-2 receives a Z-Wave OFF command, the PS15Z-2 will stop cycling its output relay and default to ON.
- At any time during that 20 seconds, if the PS15Z-2 receives a Z-Wave ON command, the PS15Z-2 will add an additional 20 seconds on/off cycling of its output relay. At the end of the 20 seconds, the PS15Z-2 will again default to ON (relay closed).
- At any other time, if the PS15Z-2 receives an OFF command, it will have no effect and the PS15Z-2 remains ON.

INTEROPERABILITY WITH Z-WAVE™ DEVICES

A Z-Wave™ network can integrate devices of various classes, and these devices can be made by different manufacturers. The PS15Z-2 can be incorporated into existing Z-Wave™ networks. The button on the face of the PS15Z-2 can be used to carry out inclusion (add to a group), association (operate coincidentally with other nodes), exclusion (remove from a group) or reset.

SPECIFICATIONS

Power	120VAC, 60 Hz
Signal (Frequency)	908.42MHz
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 Receive module.

REGULATORY INFORMATION

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.

FCC Notice

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

IC NOTICE

This Class B digital apparatus complies with Canadian ICES-003

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.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. 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.

WARRANTY

This Linear product is warranted against defects in material and workmanship for twelve (12) months. **This warranty extends only to wholesale customers** who buy direct from Linear or through Linear's normal distribution channels. Linear does not warrant this product to consumers. Consumers should inquire from their selling dealer as to the nature of the dealer's warranty, if any. **There are no obligations or liabilities on the part of Linear Corporation for consequential damages arising out of or in connection with use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation, or reinstallation.** All implied warranties, including implied warranties for merchantability and implied warranties for fitness, are valid only until Warranty Expiration Date as labeled on the product. **This Linear LLC Warranty is in lieu of all other warranties express or implied.** All products returned for warranty service require a Return Product Authorization Number (RPA#). Contact Linear Technical Services at 1-800-421-1587 for an RPA# and other important details.

IMPORTANT !!!

Linear radio controls provide a reliable communications link and fill an important need in portable wireless signaling. However, there are some limitations which must be observed.

- For U.S. installations only: The radios are required to comply with FCC Rules and Regulations as Part 15 devices. As such, they have limited transmitter power and therefore limited range.
- A receiver cannot respond to more than one transmitted signal at a time and may be blocked by radio signals that occur on or near their operating frequencies, regardless of code settings.
- Changes or modifications to the device may void FCC compliance.
- Infrequently used radio links should be tested regularly to protect against undetected interference or fault.
- A general knowledge of radio and its vagaries should be gained prior to acting as a wholesale distributor or dealer, and these facts should be communicated to the ultimate users.