



## 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).

## ZDP100 PLUG-IN LAMP MODULE

The ZDP100 plug-in Lamp Module is a component of the HomePro lighting control system. Plug the Lamp Module into a wall outlet and plug a lamp into the controlled outlet of the Lamp Module. Inclusion of the ZDP100 Lamp Module on the ZTH100 Wireless Controller menu allows remote ON/OFF control and dimming of lamps connected.

This plug-in Lamp Module is designed to work with other Z-Wave enabled devices. Z-Wave nodes of other types can be included in the system and will also act as repeaters if they support this function of repeating the signal received to other modules in the system.

**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 ZDP100 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. **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. Note: Grounded outlet is always powered and can be used for any other appliance. See the ZTH100 or other Wireless Controller operating instructions for details to include this module under the command of the Wireless Controller.

## INCLUDING ZDP100 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 ZDP100 must be in its permanently installed location. Tap the button on the ZDP100 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 ZDP100 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. If using the ZTH100 select "SETUP" and scroll to "RESET UNIT"

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 just functions as a repeater.

## BASIC OPERATION

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### **Local Control**

The button on the ZDP100 allows the user to

- Turn ON, OFF or DIM and BRIGHTEN the load attached to the controlled outlet.
- 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 on the ZDP100 once to satisfy those instructions. Further operation of button:

- 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 its 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 ZDP100 will respond to BASIC and MULTILEVEL commands that are part of the Z-Wave system. Refer to your controller’s instructions as to whether your controller can transmit those commands.

See the information in the section titled **Version** for a complete list of commands the ZDP100 will support.

## ADVANCED OPERATION

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### **Protection**

**The ZDP100 supports the Protection Command.**

The ZDP100 can be set to any one 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:

1. No Protection
2. Child Protection
3. Button on ZDP100 totally disabled

When Protection is set to “*No Protection*” mode, the ZDP100 works normally.

When Protection is set to “*Child Protection*” mode, you will have to press the button 3 times rapidly to toggle the attached load. Tap the button twice then press and hold it to dim or brighten the attached load. The ZDP100 operates normally if controlled by a wireless controller.

When Protection is set to “*Enable Total Protection*” mode, the button will not work. You will be able to turn the load on and off only with a wireless controller, however the button can still be used to access the Z-Wave network for programming.

### **All On/All Off**

**The ZDP100 supports the ALL ON/ ALL OFF commands.**

The ZDP100 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 ZDP100 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 ZDP100 can be setup to respond to ALL ON and ALL OFF commands are:

- ZDP100 will not respond to ALL ON or the ALL OFF command.
- ZDP100 will respond to ALL OFF command but will not respond to ALL ON command.
- ZDP100 will respond to ALL ON command but will not respond to ALL OFF command.
- ZDP100 will respond to ALL ON and the ALL OFF command.

## Configuration

*The ZDP100 supports the Configuration command.*

The ZDP100 can be configured to operate slightly differently than it works when you first install it. Using the configuration command you can configure the following (if your controller supports it):

You can use a HomePro ZTH100 Wireless Controller to send Configuration commands. (Refer to the Setup Menu, Configuration section)

### 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.

## Manufacturer Specific

*The ZDP100 supports the Manufacturer Specific command.*

The ZDP100 can return Manufacturer Specific information about itself. Refer to your controller's instructions on how to get this information from the ZDP100 (ZTH100 does not display this).

## 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 (it is never moved after inclusion 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 ZDP100. Refer to your controller's instructions on how to do this (if it supports it). Assigning an SUC Route to the ZDP100 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 ZDP100 will only request an update when a transmission fails.

## SPECIFICATIONS

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Power	120 VAC, 60 Hz
Signal (Frequency)	908.42 MHz
Maximum Load	300 W, for incandescent lamps only. <b>Note:</b> A minimum 25 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 Wireless Controller and/or the closest HomePro plug-In Lamp Module or Appliance Module

## INTEROPERABILITY WITH Z-WAVE™ DEVICES

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A Z-Wave™ network can integrate devices of various classes, and these devices can be made by different manufacturers. The ZDP100 can be incorporated into existing Z-Wave™ networks.

The button on the face of the ZDP100 can be used to carry out inclusion (add to a group), exclusion (remove from group) or reset (remove from network).

### Software Fuse

The ZDP100 is designed to protect itself against loads that exceed its maximum power rating. The application of a load that exceeds that rating is quickly sensed by the dimmer and it responds by immediately shutting off all power to that load. If the dimmer doesn't seem to work, or if it only works momentarily, check to see that the total lamp wattage doesn't exceed the 300W rating of the ZDP100. If a properly sized load is restored to the dimmer, it can be operated normally once again.

### Over-current protection

The ZDP100 hardware has an over current detection circuit, which is final protection against overload. If the software fuse should fail to shut down the dimmer when overloaded, backup protection is provided by an internal fuse. This fuse is not user serviceable. Check your home circuit breakers before concluding that the product must be returned to the manufacturer for repair at a nominal charge.

## WARRANTY

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*For warranty and general product information visit our web site at [www.act-solutions.com](http://www.act-solutions.com)*

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### 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 for help.

### 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.*

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.

### About ZDP100's Certification

In addition to compliance with product safety standards, the ZDP100 is also certified to comply with applicable FCC and IC rules and regulations governing RF and EMI emissions.



Products that speak Z-Wave  
work together better.™