To Reset Unit (If Required):

1. With your Controller in Discovery or Add Mode, tap the button on the face of the outlet. The LED will blink slowly when it is Add Mode.
2. You should see an indication on your Controller that the “device was added” to the network. The LED will stop blinking.
3. A new device will appear in the list of Switches. It should display as a switch.
4. If the Controller/Gateway achieves the addition failed, repeat Steps 1-3.

NOTE: If you have trouble adding the PD300EMZ5-1 to a group it may be that the HomeID and Node ID were not observed from the add testing. You must first “RESET UNIT” 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 as a repeater (only). “RESET UNIT” removes it completely from the network.

To Set Unit (If Required):

1. Tap the button on the face of the outlet five (5) times.
2. Press and hold the button for 15 seconds. The LED will increasingly blink faster to indicate that a Reset is taking place.

Removing from a network:

The PD300EMZ5-1 can be removed from the network by the Controller / Gateway. Refer to the Controller operating instructions for details.

1. Set the Controller into Removal Mode and follow its instruction to delete the PD300EMZ5-1 from the Controller.
2. Remove the switch by tapping the button on the face of the outlet two times. The LED will begin blinking slowly for 10 seconds indicating that it has been removed.
3. You should see an indication on your Controller that the “device was removed” from the network.

Installs: Z-Wave certified portable or stationary Controller can communicate with the Z-Wave 500 Series Module.

Installing to a network: performance 1-3.

1. With your Controller in Discovery or Add Mode, tap the button on the face of the outlet. The LED will blink slowly when it is Add Mode.
2. You should see an indication on your Controller that the “device was added” to the network. The LED will stop blinking.
3. A new device will appear in the list of Switches. It should display as a switch.
4. If the Controller/Gateway achieves the addition failed, repeat Steps 1-3.

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ADVANCED OPERATION

All On/All Off

The PD300EMZ-1 supports the ALL ON/ALL OFF commands. The PD300EMZ-1 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 PD300EMZ-1 to operate in the manner you desire. Some Controllers may be only able to set certain settings of ALL ON/OFF responses.

The four different ways the PD300EMZ-1 can be set to respond to ALL ON and ALL OFF commands are:

1. Responds to ALL ON or the ALL OFF command.
2. Responds to ALL OFF command but will not respond to ALL ON command.
3. Responds to ALL ON command but will not respond to ALL OFF command.
4. Responds to ALL ON and the ALL OFF command.

CONFIGURATION

Adjusting Dim Rate

Dim Level

The brightness setting of the Dimmer is called the Dim Level. When the Dim Level is adjusted, the rate that Dim Level changes depends on the Dim Step (Parameter 7) and Dim Timer (Parameter 8) values. These values can be changed instantaneously to allow various scenes and effects. These values can also be varied between local control, remote commands from the hub or associated device and ALL ON/OFF commands.

Dim Step (remote and local)

Dim Step can be set to a value of 1 to 199. This value indicates how many levels the dimmer will change each time the Dim Timer expires.

Dim Timer (remote and local)

The Dim Timer (how fast the dim steps happens), it can be set to a value of 1 to 255. This value indicates in 10 millisecond resolution, how often the dim level will change.

Examples:

• If the Dim Timer parameter value is set to 1, every 10ms the Dim Level will change by the Dim Step value.
• If the Dim Step parameter value is set to 255, every 2.55s the Dim Level will change by the Dim Step value.

With the combination of the two parameter values that control the dim rate, the dimmer can be adjusted to dim from maximum to minimum or minimum to maximum at various speeds between 10 milliseconds and 252.45 seconds (over 4.25 minutes).

Parameter Length Valid Values Configuration Option
7 1 byte decimal 1 – 199 Remote Dim Step (default = 1, step = 1)
8 2 byte decimal 1 – 255 Remote Dim Time (default = 3, 30 mS)
9 1 byte decimal 1 – 199 Local Dim Step (default = 1, step = 1)
16 2 byte decimal 1 – 255 Local Dim Time (default = 3, 30 mS)
18 1 byte decimal 1 – 199 All Local Dim Step (default = 1, step = 1)
18 2 byte decimal 1 – 255 All Local Dim Time (default = 3, 30 mS)

LED Intensity

You can set the intensity of the LED to fit the environment you PD300EMZ-1 is being used in from full to brightest. This is done by changing Parameter 2.

Parameter Length Valid Values Configuration Option
2 1 byte Decimal 0 - 100

0 = OFF
1 = Very Dim
100 = Full Brightness (default)

Power Monitoring

The PD300EMZ-2 provides a visual display of the amount of energy being consumed when the load is turned on by illuminating the LEDs in one of 5 different colors.

Parameter Length Valid Values Configuration Option
10 1 byte Decimal Power Level usage
0 Power Level usage (Default)

The duration the LED will change color to indicate the amount of energy being used can be set using Parameter 12. After displaying the “energy used” color, the LED will revert to OFF or ON (white) as determined by configuration parameter 49.

Parameter Length Valid Values Configuration Option
12 1 byte Decimal 0 Number of seconds LED displays power level usage
1 Power Monitoring ON

Night Light

By default, the LED on the PD300EMZ-2 will turn off when the light attached is turned on. To make the LED turn on when the load attached is turned on, set Parameter 3 to a value of 1.

Parameter Length Valid Values Configuration Option
3 1 byte Decimal 0 LED OFF when the load is on, and ON when the load is off (default mode)
1 LED is always on
2 LED is always off

Over-The-Air (OTA) Update

A Quadraphase LED can be enabled if the firmware update mode. Firmware update mode must be entered before the system Controller sends the firmware update command to begin downloading new firmware. Firmware update mode is enabled for 60 seconds after the quadraphase LED. If the firmware update does not begin before the end of the 60 seconds then firmware update result, is invalid returned to normal operation. The LED will blink twice per second indicating it is in firmware update mode.

Resetting to Defaults

Each configuration Parameter can be set back to its default setting by setting the default bit in the Configuration Setting command. See your Controller’s instructions on how to do this (and if it supports it). All configuration commands will be reset to their default state when the PD300EMZ-1 is excluded from the ZigBee network by using the Controller to reset the node.

SPECIFICATIONS

Power:

- 120V AC, 60Hz
- Signal (Frequency): 908.42 MHz / 916 MHz
- Maximum Load: 300 W for lamps only 120 VAC
- Range: Up to 130 feet line of sight

NOTICES

2-Wire® and Z-Wave® are registered trademarks of Sigma Designs and its subsidiaries in the United States and other countries.

Terms and Conditions pertaining to the sale of this Nortek Security & Control wireless mesh network product are available at www.norteksecurity.com, conditionally.

CAUTION: Do not connect ground type plugs (3) three prongs, to a non-grounding receptacle (2) two-prongs.

REGULATORY INFORMATION

The PD300EMZ-1 is a Class A digital apparatus and meets the FCC. Rule 15.21 criteria. The PD300EMZ-1 is a Class A digital apparatus and meets the FCC. Rule 15.21 criteria.

In the United States:

1. This Class A digital apparatus complies with Part 15 of the FCC Rules.
2. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference, including interference that may cause undesired operation.

FCC Notice

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.

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.

This digital apparatus complies with RSS 247, Issue 2 of the Canadian Department of Communications. 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

What is Covered?

Nortek Security & Control (“NS&C” or “warranty to consumers who purchase this product for personal, family or household purposes new from an authorized NS&C dealer, that the product will be free from defects in materials and workmanship for a period of 1 year from the date of purchase (the Warranty Period). During the Warranty Period, NS&C will repair or replace, at its option, any defective part or product or to recondition any repaired replacement part or product.

Warranty Period:

The warranty shall not be extended or restored upon receipt of any repaired replacement part or product under this warranty. No person is authorized to extend or otherwise modify this warranty.

How to Obtain Warranty Service?

To obtain warranty service, email our Return Department at returns@norteksecurity.com, include your name, address, telephone number, the model number of your product, a copy of your original sales receipt, and a description of the problem. Unless we need to discuss the situation further with you, you will be emailed a Return Authorization Number and shipping instructions. If we need to discuss the situation further with you, we will call you at a number listed in this warranty. NS&C, Inc. shall not be responsible for shipping damage to your returns once a Return Authorization Number is issued. You are responsible for the cost of labor to remove a defective part or product or to recondition any repaired replacement part or product under this warranty. No person is authorized to extend or otherwise modify this warranty.

Limitations

THE DURATION OF ANY IMPLIED WARRANTY, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL NOT EXCEED THE WARRANTY PERIOD PROVIDED HEREIN.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

NS&C SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE BREACH OF ANY EXPRESS OR IMPLIED WARRANTY.

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 have also other legal rights which vary from State to State.

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