# 45602

**Z-Wave, RF Controlled, 300W, 120 VAC, Plug-In Lamp Module**

**Add callouts for Z-Wave and Pass Through outlets**

Thank you for your purchase of a GE SmartHome™ Z-Wave® control device. Z-Wave technology is designed to automate lighting/home control and provide easy remote operation of all your Z-wave enabled devices. The GE Z-Wave product family includes a variety of devices to enable and control lighting in your home. It is up to you whether you want to control one room or your entire house and whether you want to do it all now or start with one room and add more over time.

This module is one component of a Z-Wave® control system and is designed to work with all other Z-Wave enabled devices in a home control network. It will also act as a wireless repeater to insure that commands intended for another device in the network are received, thereby extending the range of the wireless controller. Z-Wave devices of other types and brands can be added to the system and will also act as range extenders if they support this function of repeating the signal received to other nodes in the system.

*The incandescent lighting plugged into the Z-Wave controlled outlet on this module must not exceed 300 watts. Plugging a non-resistive load such as fluorescent lighting or a device with a motor may result in damage to the Lamp Module and will void the warranty.*

*There are no user serviceable parts in this unit.*

## *Key Features*

- One Z-wave controlled AC outlet for standard incandescent lighting
  - Remote ON/OFF and Brightness control via the Z-Wave controller
  - Manual ON/OFF and Brightness control with the front panel pushbutton
- One Always-ON pass-through AC outlet
- Space efficient design
  - Does not block the 2nd outlet in a duplex wall receptacle
  - Plugs and cords for connected devices route to the side allowing close placement of furniture

## *Basic Operation*

### Manual Control

The Front Panel Pushbutton on the 45602 Lamp Module allows the user to:

1. Manually turn the connected lighting ON/OFF by pressing the button.
   - This is a toggle switch; if the light is OFF, pressing the button turns the light ON and vice versa.

2. Adjust the brightness level of the connected lighting by pressing and holding the button. Release the button when the desired level is attained.
   - This is also a toggle function. The lighting will dim until the minimum level is attained or the button is released. The next time the button is pressed and held, the level will increase until the maximum level is attained or the button is released.
3. Include or exclude the module from the Z-Wave home control network.
   - Refer to the instructions for your primary controller to access the setup function and include or exclude devices.
   - When prompted by your primary controller, tap the button.
   - The primary controller should indicate that the action was successful. If the controller indicates the action was unsuccessful, please repeat the procedure.
   - Once the module is part of the network, the same basic procedure is used to add the module to groups or scenes. Refer to the primary controller's instructions for details.

Please Note: After a power failure, the module defaults to OFF.

The following Advanced Operation parameters require that you have an advanced controller like the GE model 45601 LCD remote. Advanced remotes from other manufacturers may also be able to change these settings; however, basic remotes do not have this capability.

## All On/All Off

Depending upon your primary controller, the 45602 lamp module can be set to respond to ALL ON and ALL OFF commands in up to four different ways. Some controllers may not be able to change the response from its default setting. Please refer to your controller's instructions for information on whether or not it supports the configuration function and if so, how to change this setting.

The four possible responses are:
- It **will** respond to ALL ON and the ALL OFF command (default).
- It **will not** respond to ALL ON or ALL OFF commands.
- It **will** respond to the ALL OFF command but **will not** respond to the ALL ON command.
- It **will** respond to the ALL ON command but **will not** respond to the ALL OFF command.

## Dim Rate Adjustments

Both the number of steps (or levels) that the dimmer will change and the timing of the steps can be modified to suit personal preferences. The timing of the steps can be adjusted in 10 millisecond intervals. As an example, the default setting for parameter 8 is "3". This means that the lighting level will change every 30 milliseconds when the Dim Command is received. A value of 255 would mean that the level would change every 2.55 seconds. Combined, the two parameters allow dim rate adjustments from 10 milliseconds to 4.2 minutes to go from maximum-to-minimum or minimum-to-maximum brightness levels.

1. **When Receiving a Z-Wave Dim Command**
   - **Parameter 7 (number of steps or levels)**
   - **Parameter 8 (timing of the steps)**
   - **Length: 1 Byte**
   - **Valid Values:**
     **Parameter 7 (default = 1) Valid Values: 1-99**
     **Parameter 8 (default = 3) Valid Values: 1-255**

2. **Manual Control Dimming (pressing the Dimmer's rocker)**
   - **Parameter 9 (number of steps or levels)**
   - **Parameter 10 (timing of the steps)**
   - **Length: 1 Byte**
   - **Valid Values:**
     **Parameter 9 (default = 1) Valid Values: 1-99**
     **Parameter 10 (default = 3) Valid Values: 1-255**

3. **When Receiving an All-On or All-Off Command**
   - **Parameter 11 (number of steps or levels)**
   - **Parameter 12 (timing of the steps)**
   - **Length: 1 Byte**
   - **Valid Values:**
     **Parameter 11 (default = 1) Valid Values: 1-99**
     **Parameter 12 (default = 3) Valid Values: 1-255**

**Ignore Start Level When Receiving Dim Commands**
Please note: Every "Dim" command from your remote controller includes a start level embedded in it.

The 45602 can be set to ignore the start level that is part of the dim command. Setting parameter 5 to a value of 0 will cause the 45602 to dim or brighten from the start level embedded in the command.
• **Parameter No: 5**
• **Length: 1 Byte**

• Valid Values = 0 or 1 (default 1)

## Restoring Factory Defaults

All Configuration Parameters can all be restored to their factory default settings by using your master controller to reset the device. ***Please note:*** **GE Model #45601 controller is designed to do this.** ***Use the controller's "Setup / Reset Unit" menu to restore defaults. Not all controllers are capable of this; your controller must be designed to perform this function.***

## Software Fuse

This Lamp Module is designed to protect itself against loads that exceed its maximum power rating. An overload is automatically sensed by the module and all power to the load is shut OFF immediately.

Troubleshooting: Verify that the lamp wattage does not exceed the 300W rating if the module doesn't seem to work properly. Normal operation can be restored by remote when the load is reduced to the proper rating.

## Over-Current Protection

Additional over-current protection is provided by an internal fuse which is not user serviceable. Check your home's circuit breakers before concluding that the product must be replaced.

## Operation Note

When a light bulb burns out, the dimmer may 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.

## Interoperability with Z-Wave™ Devices

A Z-Wave™ network can integrate devices of various classes, and these devices can be made by different manufacturers. Although every Z-Wave certified product is designed to work with all other Z-Wave certified products, your controller must include the appropriate device classifications in order to control non-lighting Z-wave devices. As an example, the GE 45600 basic remote is designed only for controlling Z-Wave devices using the lighting control classification. The GE 45601 deluxe remote with LCD readout can control other Z-Wave certified devices like thermostats as well as lighting.

## *WARRANTY*

JASCO Products warrants this product to be free from manufacturing defects for a period of two years from the original date of consumer purchase. This warranty is limited to the repair or replacement of this product only and does not extend to consequential or incidental damage to other products that may be used with this product. This warranty is in lieu of all other warranties, expressed or implied. Some states do not allow limitations on how long an implied warranty lasts or permit the exclusion or limitation of incidental or consequential damage, so the above

limitations may not apply to you. This warranty gives you specific rights, and you may also have other rights which vary from state to state. If the unit should prove defective within the warranty period, return prepaid with dated proof of purchase to:

JASCO Products Company
10 E Memorial Rd.
Oklahoma City, OK 73114

## *CERTIFICATIONS*

UL Listed – Add Details

## *FCC Information*

The Federal Communication Commission Radio Frequency Interference Statement includes the following paragraph: The 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 uses, generates and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communication. 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

Operation is subject to the following two conditions:

- This device may not cause interference and
- This device must accept any interference, including interference that may cause undesired operation of the device.

**Important Note:** To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

## *SPECIFICATIONS*

Power 120VAC, 60Hz
Signal (Frequency) 908.42 MHz
Maximum Load for the Z-Wave controlled outlet; 300 W Incandescent
Maximum load for both outlets 15 Amps, 1800W Resistive
Range: Up to 100 feet line of sight between the Wireless Controller and the closest Z-Wave receiver module.
Operating Temperature Range: 32-104° F (0-40° C)
For indoor use only.

# 45603

**Z-Wave, RF Controlled, 600W, 120 VAC, Plug-In Fluorescent Light & Appliance Module**

**Add callouts for Z-Wave and Pass Through outlets**

Thank you for your purchase of a GE SmartHome™ Z-Wave® control device. Z-Wave technology is designed to automate lighting/home control and provide easy remote operation of all your Z-wave enabled devices. The GE Z-Wave product family includes a variety of devices to enable and control lighting in your home. It is up to you whether you want to control one room or your entire house and whether you want to do it all now or start with one room and add more over time.

This module is one component of a Z-Wave® control system and is designed to work with all other Z-Wave enabled devices in a home control network. It will also act as a wireless repeater to insure that commands intended for another device in the network are received, thereby extending the range of the wireless controller. Z-Wave devices of other types and brands can be added to the system and will also act as range extenders if they support this function of repeating the signal received to other nodes in the system.

*The device plugged into the Z-Wave controlled outlet on this module must not 600 watts (Incandescent); 1800W (15A) Resistive or ½ HP Motor. Total load capacity for both outlets is 1800W(15A) Resistive.*

*There are no user serviceable parts in this unit.*

## *Key Features*

- One Z-wave controlled AC outlet
  - Remote ON/OFF control via the Z-Wave controller
  - Manual ON/OFF control with the front panel pushbutton
- One Always-ON pass-through AC outlet
- Space efficient design
  - Does not block the 2nd outlet in a duplex wall receptacle
  - Plugs and cords for connected devices route to the side allowing close placement of furniture

## *Basic Operation*

### Manual Control

The Front Panel Pushbutton on the 45603 Appliance Module allows the user to:

1. Manually turn the connected equipment ON or OFF by pressing the button.
   - This is a toggle switch; if the device is OFF, pressing the button turns the device ON and vice versa.

2. Include or exclude the module from the Z-Wave home control network.
   - Refer to the instructions for your primary controller to access the network setup function and include or exclude devices.
   - When prompted by your primary controller, tap the button.
   - The primary controller should indicate that the action was successful. If the controller indicates the action was unsuccessful, please repeat the procedure.
   - Once the module is part of the network, the same basic procedure is used to add the module to groups or scenes. Refer to the primary controller's instructions for details.

Please Note: After a power failure, the 45603 module defaults to OFF.

## *ADVANCED OPERATION*

The following Advanced Operation parameters require that you have an advanced controller like the GE model 45601 LCD remote. Advanced remotes from other manufacturers may also be able to change these settings; however, basic remotes do not have this capability.

### All On/All Off

Depending upon your primary controller, the 45603 module can be set to respond to ALL ON and ALL OFF commands in up to four different ways. Some controllers may not be able to change the response from its default setting. Please refer to your controller's instructions for information on whether or not it supports the configuration function and if so, how to change this setting.

The four possible responses are:
- It **will** respond to ALL ON and the ALL OFF command (default).
- It **will not** respond to ALL ON or ALL OFF commands.
- It **will** respond to the ALL OFF command but **will not** respond to the ALL ON command.
- It **will** respond to the ALL ON command but **will not** respond to the ALL OFF command.

### Restoring Factory Defaults

All Configuration Parameters can all be restored to their factory default settings by using your master controller to reset the device. ***Please note:*** **The GE Model #45601 controller is designed to do this.** ***Use the controller's "Setup / Reset Unit" menu to restore defaults. Not all controllers are capable of this; your controller must be designed to perform this function.***

### Over-Current Protection

Additional over-current protection is provided by an internal fuse which is not user serviceable. Check your home's circuit breakers before concluding that the product must be replaced.

### Interoperability with Z-Wave™ Devices

A Z-Wave™ network can integrate devices of various classes, and these devices can be made by different manufacturers. Although every Z-Wave certified product is designed to work with all other Z-Wave certified products, your controller must include the appropriate device classifications in order to control non-lighting Z-wave devices. As an example, the GE 45600 basic remote is designed only for controlling Z-Wave devices using the lighting control classification. The GE 45601 deluxe remote with LCD readout can control other Z-Wave certified devices like thermostats as well as lighting.

## WARRANTY

JASCO Products warrants this product to be free from manufacturing defects for a period of two years from the original date of consumer purchase. This warranty is limited to the repair or replacement of this product only and does not extend to consequential or incidental damage to other products that may be used with this product. This warranty is in lieu of all other warranties, expressed or implied. Some states do not allow limitations on how long an implied warranty lasts or permit the exclusion or limitation of incidental or consequential damage, so the above

limitations may not apply to you. This warranty gives you specific rights, and you may also have other rights which vary from state to state. If the unit should prove defective within the warranty period, return prepaid with dated proof of purchase to:

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- 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

Operation is subject to the following two conditions:

- This device may not cause interference and
- This device must accept any interference, including interference that may cause undesired operation of the device.

**Important Note:** To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

## *SPECIFICATIONS*

Power 120VAC, 60Hz
Signal (Frequency) 908.42 MHz
Maximum Load for the Z-Wave controlled outlet: 600W Incandescent, ½ HP Motor or 1800W(15A) Resistive
Maximum load for both outlets 1800W Resistive
Range: Up to 100 feet line of sight between the Wireless Controller and the closest Z-Wave receiver module.
Operating Temperature Range: 32-104° F (0-40° C)
For indoor use only.