

# JASCO®



ZB4101 (45853)

## ZigBee®, Plug-In On/Off Switch Lamp and Small Appliance Module

Home Automation Standard Version 1.2 Compliant

### ***Introduction***

Thank you for your purchase of a Jasco ZigBee® control device. ZigBee technology is designed to automate lighting/home control and provide easy remote operation of all your ZigBee enabled devices. The Jasco ZigBee product family includes a variety of devices to 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.

**The device plugged into the ZigBee controlled outlet on this module must not exceed 600 watts (Incandescent); 1800W (15A) Resistive or 1/3 HP Motor. Total load capacity for both outlets is 1800W (15A) Resistive.**

To reduce the risk of electric shock, this product has a grounding 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.

There are no user serviceable parts in this unit.

### ***! Warning !***

**RISK OF FIRE  
RISK OF ELECTRICAL SHOCK  
RISK OF BURNS**

#### **WARNING**

##### **Controlling Appliances:**

Exercise extreme caution when using ZigBee devices to control appliances. Operation of the ZigBee device may be in a different room than the controlled appliance, also an unintentional activation may occur if the wrong button on the remote is pressed. ZigBee devices may automatically be powered on due to timed event programming. Depending upon the appliance, these unattended or unintentional operations could possibly result in a hazardous.

1. Do Not include ZigBee devices in Groups or Scenes if they control appliances.
2. Do Not use ZigBee devices to control electric heaters or any other appliances which may present a hazardous condition due to unattended or unintentional or automatic power on control.

#### **Over-Current Protection**

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.

## **Key Features**

- One ZigBee controlled AC outlet
  - Remote **ON/OFF** control via the ZigBee controller
  - Manual **ON/OFF** control with the front panel push button
- One Always-ON pass-through AC outlet
- Over the Air updates – Once joined to your ZigBee network, the device can transparently receive updates through your ZigBee gateway
- LED Status Indicator – Indicates device scanning during pairing process
- Space efficient design
  - Does not block the lower outlet when plugged in to the upper outlet of a duplex wall receptacle. (This assumes that the duplex receptacle is mounted with the ground pin down.)
  - Plugs and cords for connected devices route to the side allowing close placement of furniture
- Grounded 3-wire power connection for safety
- Energy Monitoring – The device can report wattage (W) and kilowatt hours (kWh). Energy usage is monitored through the ZigBee Controller Interface

## **Basic Operation**

The connected light can be turned ON in two ways:

1. Manually with the push button on the module
2. Remotely with a ZigBee Controller

### **Manual Control**

The Front Panel Push button on the Appliance Module allows the user to:

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 once turns the device **ON** and vice versa.

### **Remote Control**

ZigBee devices can be controlled remotely with a ZigBee Controller or over long distances with a PC or mobile phone through a gateway connected to your wireless router. To control the device remotely it must be paired to the ZigBee network.

## **ZigBee Network Pairing**

### **Pair the Device to the ZigBee Network**

1. Plug in appliance to be controlled into the ZigBee controlled outlet on the module
2. Auto-Scan: LED Status Indicator Blinks as the device scans for a compatible network controller to pair with (IMG Required – Indicates LED blinking while plugged into outlet)
3. Timeout: Auto-Scan mode will eventually time out after the LED Status light stops blinking. The front panel push-button on the module must be pressed to initiate manual pairing following timeout.

4. From your controller, choose to add lighting device and enter Locating/Pairing mode as instructed by the controller
5. After the device is located and paired to the approved ZigBee network, the LED status will stop blinking and will appear in your controller's menu.

The module is now paired to the ZigBee network and can be controlled remotely.

## ***Remove from ZigBee Network (Reset Device)***

### **From the ZigBee Controller**

From your controller or hub interface, choose to remove or delete the lighting device as instructed. The device will be removed from the ZigBee network following indication from your controller. All configuration parameters will be reset after the device is removed from the network.

### **Manual**

#### **To manually remove the device from the ZigBee network:**

1. Unplug the module from the outlet.
2. Hold down the button.
3. Plug the module back into the outlet.
4. Release button within 4 seconds to start the join process for the iControl network.
5. If user wants to stay with the current network, release button after 4 seconds and before 10 seconds.

## ***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. Please contact Customer Service at 800-654-8483 (option 4) between 7:30AM – 5:00PM CST or via our website ([www.jascoproducts.com](http://www.jascoproducts.com)) if the unit should prove defective within the warranty period.

## ***FCC***

U2ZZB4101

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
- 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.

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter within a host device, except in accordance with FCC multi-transmitter product procedures.

**This device can be expected to comply with Part 15 of the FCC Rules provided it is assembled in exact accordance with the instructions provided with this kit. Operation is subject to the following 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.**

**Compliance with IC Rules and Regulations**

IC: 6924A-ZB4101

Jasco Products Company

Model: ZB4101 (45853)

CAN ICES-3(B) / NMB-3(B)

This device complies with Industry Canada licence-exempt RSS standard(s). 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.

***SPECIFICATIONS***

- Power 120VAC, 60Hz
- Signal (Frequency) 2.4 Ghz IEEE 802.15.4
- Maximum load for the ZigBee controlled outlet: 600W Incandescent, ½ HP Motor or 1800W Resistive
- Maximum load for both outlets 15 Amps, 1800W Resistive
- For indoor use only.
- Complies with FCC and Industry Canada regulations

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ZigBee® is a registered US trademark of the ZigBee Alliance

The images, product information and specifications listed in this document are preliminary and subject to change