IQ Outlet User Guide

Qolsys
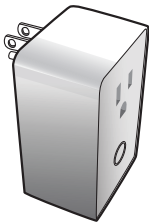### QUALITY OF LIFE

IQ Outlet
QZ2130-840
Plug In Switch
(Model: PA-100)

Z-WAVE PLUS
This product speaks with other Z-Wave certified devices

INTRODUCTION

Qolsys' IQ Outlet is a Z-Wave Plus® certified device with S2 security and SmartStart features. You can now add this device securely and with ease using QR code on the product with compatible gateways supporting S2 and Smart Start. The IQ Outlet is a member of the Z-Wave family and communicates with other Z-Wave certified devices in a control network. It can be used to turn On or Off lamps or AC operated appliances. Each Z-Wave device also serves as a node to repeat the signal in the network, thus, extending the overall Z-Wave mesh wireless network range. Different types and brands of Z-Wave devices can be associated with the IQ Outlet in your system and they will work together to optimize and expand the coverage of your Z-Wave network.

FEATURES

- Works with incandescent, florescent (CFL) or LED lighting and AC operated appliance
- ON/OFF status and location LED indicator
- Remotely or manually turns ON or OFF lights
- Does not block the second AC outlet
- Z-Wave 500 Series module inside
- Grounded 3-pin AC power receptacle and plug to enhance safety.
- Internal resettable fuse to protect from surge current
- Works with any certified gateway supporting Z-Wave
- Please find the QR code label with DSK on the bottom of the device

! WARNING !
RISK OF FIRE, ELECTRICAL SHOCK & BURNS
DO NOT USE WITH MEDICAL AND LIFE SUPPORT INSTRUMENT
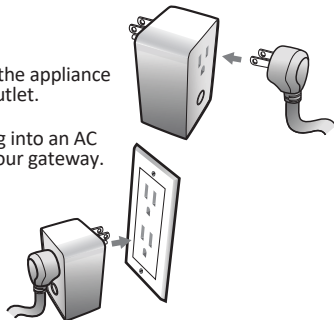No user serviceable parts are in this module
To reduce the risk of electric shock, this product has a grounding type plug that has a third (grounding) pin. This plug will only fit into a grounding type power outlet. If the plug does not fit into the outlet, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.
The appliance connected to this Z-Wave module must not exceed 900W incandescent, 200W CFL/LED, ½ horsepower motor and 15A, 1800W resistive load.

SETUP

Step 1 Plug in the AC power plug of the appliance to the receptacle of the IQ Outlet.

Step 2 Insert the module's 3-pin plug into an AC outlet in the same room as your gateway.

Step 3 Inclusion/Exclusion: Add or remove the device into your network by a Z-Wave certified controller. The IQ Outlet supports the latest S2 security and SmartStart offered by Z-Wave certified controllers. If your controller supports S2 or SmartStart, please refer to the user guide of the controller for detailed instructions on adding or removing devices to/from the network. You should be able to add the IQ Outlet into your network using the unique QR code or the DSK 5 digit pin located on the product or packaging. In addition, the device can be added or removed using the traditional method for Z-Wave as follows:
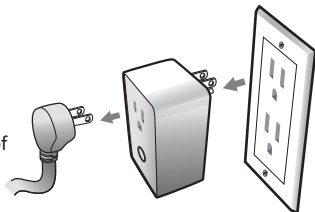
1. Place your network controller into inclusion mode by following the controller manufacturer's instructions.
2. When the controller is ready, single click the button on the front of the IQ Outlet. The controller should indicate that the new device was added successfully.
3. Once the IQ Outlet has been successfully added to your home network, you can move it to the preferred location in the home.

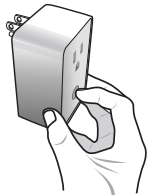If the controller shows it failed, repeat the procedure.

Manual Reset

If Inclusion still fails after the 2nd attempt, you need to first reset the IQ Outlet before repeating the above step. The manual reset method is as follows:
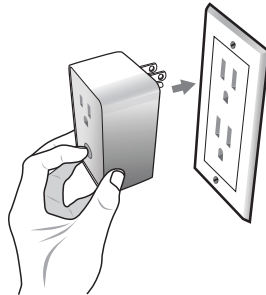
1. Unplug the IQ Outlet from the AC outlet and also unplug the power plug of the appliance from the IQ Outlet (if plugged in).

2. Press and hold the button on the IQ Outlet.

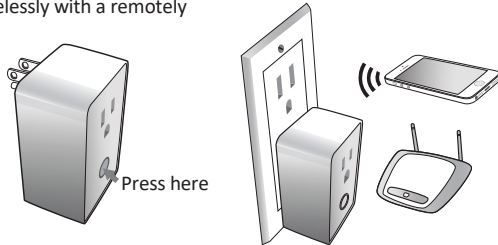3. Plug the IQ Outlet back into the AC outlet with the button pressed

After 3 seconds, release the button. If you see the button blink, that means that the IQ Outlet has been reset successfully and you may retry Step 3 in Setup to add the module into your network. Otherwise, please repeat the manual reset procedure.

Note: If the IQ Outlet was previously Added (Included) in your network, resetting it locally does not mean it has been removed from your controller software. If you wish to remove the IQ Outlet from your controller software you will need to remove (Exclude) the module from the network by your controller. If the IQ Outlet is removed from the network supporting S2 security, the only way to add the device back into the network is using the QR code or the DSK code. Therefore, please store the QR code on the product as well as copy of the full DSK printed on the package in a safe location.

Use the manual reset procedure only in the event that the network primary controller is lost or otherwise inoperable.

BASIC OPERATION

The connected lighting devices can be controlled manually with a push button OR Wirelessly with a remotely

Press here

A Z-Wave certified controller is capable of setting up Qolsys products in your desired network. Once the device is added, you may assign it to a group. Please refer to the instructions manual of your controller for details and procedures on how these settings can be done.

In the event of a power failure, the Qolsys device will return to the last setting after the power is restored.

About the push button:
There is a single button on the IQ Outlet for manual operation that:
A) Manually turns the connected lighting ON/OFF by pressing the button. It functions as a toggle switch.
B) Adds (Includes) or Removes (Excludes) your IQ Outlet to/from your Z-Wave network. Please refer to the instructions manual of your gateway or remote controller for detail procedures on how these actions can be done.

This push button is also backlit with an LED indicator that will be On when the connected appliance is Off, and vice versa. The module may be easily spotted even in a dark environment.

IQ Outlet
Size: 5cm x 10 cm, total: 20cm x 30cm (H)

ADVANCED CONFIGURATION

Configurable Parameter Settings: If your controller supports Z-Wave configurable parameters, the following settings can be modified.

#	Description	Values	Default	Bytes
		Parameters		
3	Nightlight	When value = 0, the LED indicator will be OFF when the connected appliance is ON, and the LED indicator will be ON when the connected appliance is OFF. If value = 1, the LED indicator will be OFF when the connected appliance is OFF, and the LED indicator will be ON when the connected appliance is ON. If value = 2, the LED indicator will be always OFF regardless of the load status.	0	1

Depending on the capability of your controller or gateway software, the following simple to advanced operations can be performed. Please refer to the controller's or gateway manual for details.

Association:
1. IQ Outlet supports group one for lifeline communication.
2. You can only associate one Z-Wave device to group one.
3. Lifeline association only supports the "manual reset" event.
4. For instructions on how to "set lifeline associate", please refer to your controller/ gateway instructions.

SPECIFICATIONS

Model	PA-100
Input power	120 VAC, 60 Hz.
Max output loading	900W incandescent, 200W CFL/LED, ½ horsepower motor and 15A, 1800W resistive load
Radio frequency	908.4/916 MHz.
Wireless range	Up to 132ft line of sight between the device and the other available nodes.
Normal operating temperature	77°F (25°C)
FOR INDOOR USE ONLY	

Interoperability with Z-Wave devices

A Z-Wave network can integrate devices from various classes of products, and these devices can be made by different manufacturers. The Qolsys product introduced in this instruction manual has a Z-Wave certification which allows such an interoperability.

Cut out and save the important information below:

- - - ✂ -

Z-Wave Device Specific Key (DSK)

IMPORTANT Your Z-Wave device has a unique Device Specific Key (DSK) on the product and packaging that is required to add or re-add the device to a network with a controller supporting Security 2 (S2). Be sure to save the DSK code for each device and store in a safe place. Do not remove the DSK from the product. Take a photo of the full DSK code on the packaging or write the full code here:

_____

Installation Date:_____

Device Location:_____

FCC ID: 2ABWCPA100

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.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or changes to this equipment. Such modifications or changes could void the user's authority to operate the equipment.
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: 11786A-PA100

This device complies with Part 15 of the FCC Rules and with RSS of Industry Canada. 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.

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.

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.

Z-Wave is a registered trademark of Sigma Designs.

WARRANTY

Qolsys warrants to the original purchaser of this product that for the warranty period, this product will be free from material defects in materials and workmanship.

The foregoing warranty is subject to the proper installation, operation and maintenance of the product in accordance with installation instructions and the operating manual supplied to customer.

Warranty claims must be made by customer in writing within 30 days of the manifestation of a problem. Qolsys' sole obligation under the foregoing warranty is to repair, replace or correct any such defect that was present at the time of delivery or during the warranty period. The warranty does not extend to consequential or incidental damage to other products that may be used with this product. For inquiry and customer service, email techsupport@qolsys.com.
All brand names shown are trademarks of their respective owners.

Warranty period: limited 1 year from date of purchase.

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