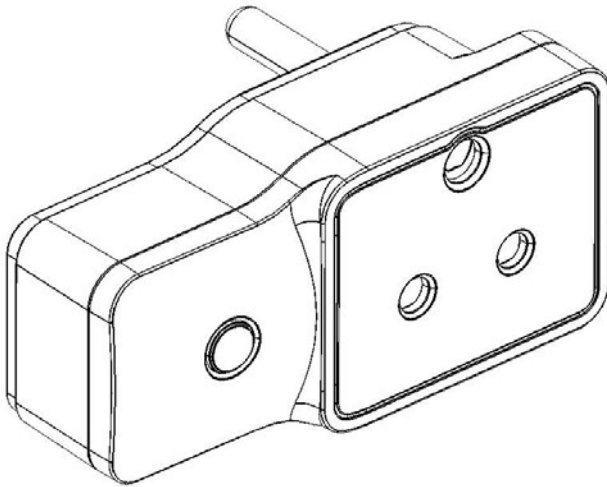


## Wireless Lighting Control IZRTSWD01 Z-Wave Smart Plug (with switch and energy meter) USER MANUAL



### Introduction

Thank you for choosing IZRTSWD01 (Smart Plug with switch and energy meter) Z-Wave control product. Our Z-Wave enabled product allows user to remotely control lighting, home appliance with power metering feature and make home control easy at low installation / maintenance cost. You may begin with a few Z-Wave enabled devices or build up a complete home automation system with our products.

The IZRTSWD01 is a Z-Wave enabled device and fully compatible with any Z-Wave enabled network. It allows remote On/Off control of specified lamps, report instant power consumption (W) and accumulated energy consumption (kWh) to gateway device. Each IZRTSWD01 is designed to act as a repeater, which will re-transmit the RF signal to ensure that the signal is received by its intended destination by routing the signal around obstacle and radio dead spots.

## Glossary

|                                     |                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Device/Light/Node</b>            | Devices, lights and nodes are all terms to describe an individual Z-Wave device. These are all interchangeable when setting up your Z-Wave network.                                                                                                                                                                                                                         |
| <b>Z-Wave Network</b>               | A collection of Z-Wave devices is controlled by primary and secondary controllers operating on the same system. A Z-Wave network has its own unique ID code so that controllers not in the network cannot control the system.                                                                                                                                               |
| <b>Inclusion</b>                    | Add a Z-Wave device to the network.                                                                                                                                                                                                                                                                                                                                         |
| <b>Exclusion</b>                    | Delete a Z-Wave device from the network.                                                                                                                                                                                                                                                                                                                                    |
| <b>Network Wide Inclusion (NWI)</b> | Network Wide Inclusion (NWI) enables both end-user friendly, Plug and Play like Z-Wave network installation as well as professional installation scenario where the inclusion process in terms of time will be reduced significantly. NWI is a feature supported by a new frame type named Explorer which enables the Z-Wave protocol to implement Adaptive Source Routing. |
| <b>Association</b>                  | Association is used to organize nodes in different groups allowing the device to identify the nodes by a group identifier. The groups can also be copied to other devices.                                                                                                                                                                                                  |

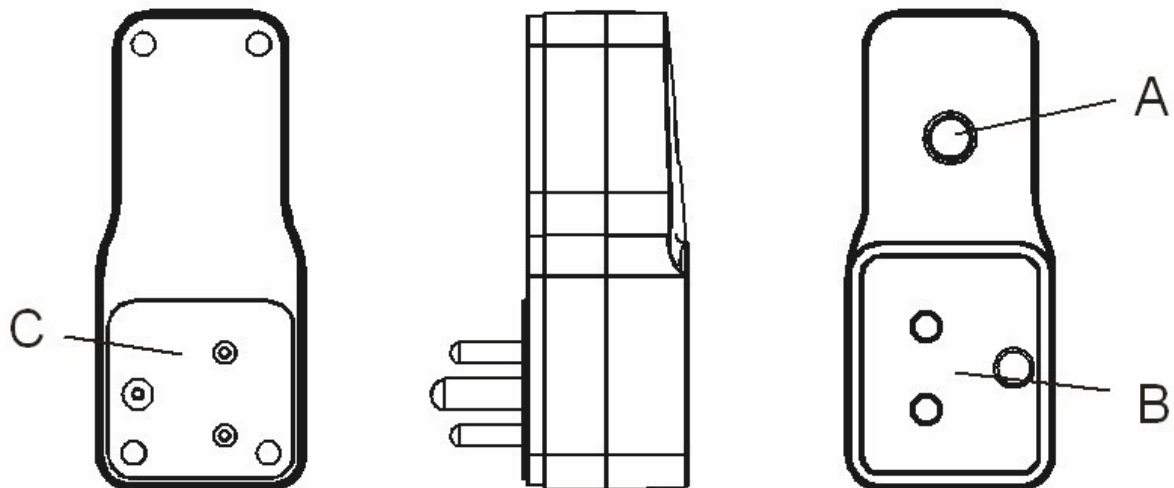
## Key Features

- Energy meter for monitoring power consumption
- Remote ON/OFF control via the Z-Wave controller
- Manual ON/OFF control with the front panel push button
- Support Association Group and Auto Report switch status
- Support Network Wide Inclusion (NWI) and Explore Frames
- High output power with "Type-M" AC plug and socket (South Africa SABS 164-1)
- Overload (watts) protection and built-in fuse protection for relay output - No overlap appearance design for adjacent AC plug



## Product Overview

- A ON/OFF/PROG Push button
- B Z-Wave controlled outlet
- C AC plug



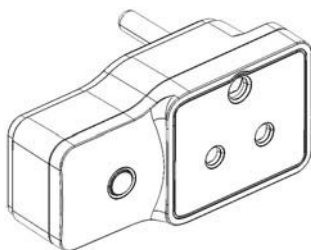
### WARNING:

The resistive household appliance connected into the Z-Wave controlled outlet must not exceed 3520W (230Vac 15.3A).

## Basic Operation

The connected device can be turned ON in two ways:

1. Manual control with the push button on the IZRTSWD01.
2. Z-Wave remote controller.

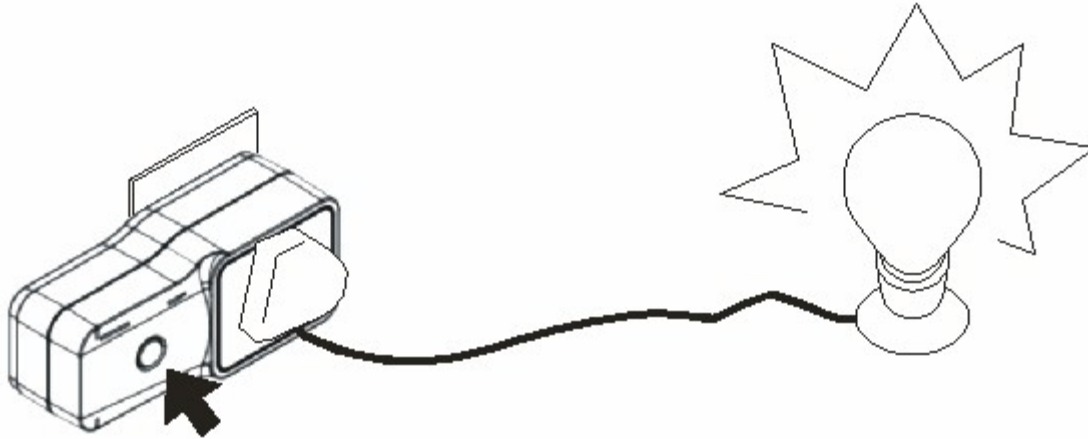


IZRTSWD01

## Manual ON/OFF function

Turn the light On/Off by pressing the button. After setup association group-1, IZRTSWD01 will trigger AUTO report function if the unit status had been changed.

(This is a toggle switch - Press the button to turn the light on if it is in off stage and vice versa)



Lower than 3520 Watts Resistive Load

## Z-Wave Remote Control

Include or exclude the unit from the existing Z-Wave home control network with your primary controller.

- Refer to your primary controller instructions to process the inclusion / exclusion setup procedure.
- When prompted by your primary controller, triple click the PROG button within 1 second. (IZRTSWD01 will enter classical inclusion/exclusion first then jump to NWI, it will exit NWI mode automatically after 5 seconds if no inclusion/exclusion request.)
- The primary controller should indicate that the action was successful. If the controller indicates the action was unsuccessful, please repeat the procedure.
- Once the unit is part of the network, the same basic procedure is used to add the unit to groups or scenes. Refer to the primary controller's instructions for more details of adding/removing to/from scene/association.

*All configuration parameters value will keep no change after exclude the unit from network (except Association information).*

## Z-Wave Configuration Parameters

Different user has different preferred settings of their unit, you may use the below configuration parameters to change settings of corresponding functionality. Auto report function will be disabled when relay status is off.

| Definitions                                                                        | Parameter Number | Parameter Value                     | Default value   |
|------------------------------------------------------------------------------------|------------------|-------------------------------------|-----------------|
| It is used to configure the time interval of instant power (W) auto report.        | 1<br>(0x01)      | From 10 to 18000, unit in seconds   | 10<br>(0x0A)    |
| It is used to configure the time interval of accumulated energy (kWh) auto report. | 2<br>(0x02)      | From 600 to 432000, unit in seconds | 600<br>(0x0258) |

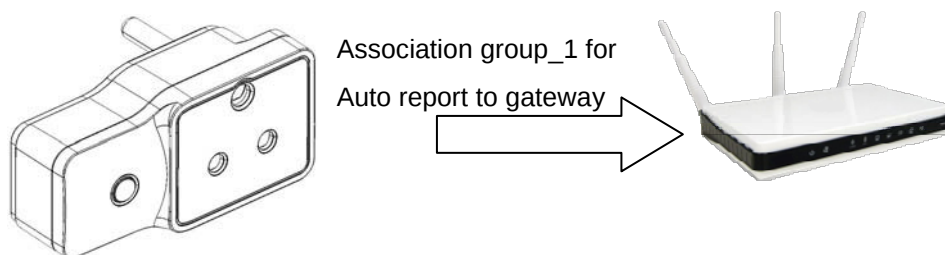
## Support for Association Group

IZRTSWD01 support one association group and it contains one node max.

### Association group\_1 (Auto report IZRTSWD01 status):

Association group\_1 is used to report IZRTSWD01 status, instant power (W) + accumulated energy (kWh) to pre-defined node ID such as gateway if IZRTSWD01 status had been changed. Please refer to your controller's instructions for information on whether or not it supports the Association function.

### Operation diagram for Association Group:



Z-Wave Gateway  
(Node ID-A)

## Report by Get command

Instant power consumption (W) and accumulated energy consumption (kWh) can be reported by Get command. The default scale is accumulated energy (kWh).

## All On/All Off functions

Depending upon your primary controller, the unit can be set to respond to ALL ON and ALL OFF commands 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 settings. The four possible responses are:

- It will respond to ALL ON and the ALL OFF commands (default).
- It will not respond to ALL ON and 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.

## Overload Protection

IZRTSWD01 provides an overload protection feature, it will detect and turn off relay output automatically if the load is exceeded 3600W (non-dimmable lights or appliances). If this is the case, please remove the load from the unit.

## LED Indication Status

| Operations                                                 | LED Indication Status                                                                                                                  |
|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Device load turned on<br>Device load turned off            | LED turns on. LED turns off.                                                                                                           |
| <b>Learning / NWI mode:</b><br>Triple click on PROG button | LED will not response this action.<br>The device will exit NWI mode automatically after 5 seconds if it does not exist in the network. |

Remark: LED indication will be ready in MP units.

## Restoring Factory Defaults

All Configuration Parameters value and Association information can be restored to factory default settings.

| Step | Setup Key                                                     | LED Indication Status on IZRTSWD01DE   |
|------|---------------------------------------------------------------|----------------------------------------|
| 1    | Press and keep holding the PROG button for around 10 seconds. | LED state will toggle after 10seconds. |
| 2    | Triple click on the PROG button within next 2 seconds.        | LED state will be toggled.             |
| 3    | Reset process completed.                                      | LED will keep off after reset.         |

Remark: LED indication will be ready in MP units.

## Wireless Information

### Wireless range:

This device has an open-air line-of-sight transmission distance of 25m which complies with the Z-Wave standards. Performance can vary depending on the amount of objects in between Z-Wave devices such as walls and furniture. Every Z-Wave device set up in your network will act as a signal repeater allowing devices to talk to each other and find alternate routes in the case of a reception dead spot.

Radio frequency limitations:

1. Each wall or object (i.e.: refrigerator, bookshelf, large TV, etc) can reduce the maximum range of 20m by up to 20 to 30%.
2. Plasterboard and wooden walls block less of the radio signal than concrete, brick or tile walls which will have more of an effect on signal strength.
3. Wall mounted Z-Wave devices will also suffer a loss of range if they are housed in metal junction boxes which could also reduce the range by up to 20 to 30%.

## Maintenance

1. Do not expose your unit to dust, strong sunlight, humidity, high temperatures or mechanical shocks.
2. Do not use corrosive or abrasive cleansers on your unit.
3. Keep the unit dust free by wiping it with a soft, dry cloth.
4. Do not disassemble your unit; it contains no user-serviceable parts.

## TECHNICAL SPECIFICATIONS

|                                               |                                                                                                                             |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Model no.</b>                              | IZRTSWD01                                                                                                                   |
| <b>RF frequency</b>                           | 868.42MHz (IZRTSWD01)                                                                                                       |
| <b>Input voltage / frequency</b>              | 230Vac (220Vac to 240Vac) / 50Hz                                                                                            |
| <b>RF operating distance</b>                  | 25m min. (line of sight between the Wireless Controller and the closest Z-Wave receiver module at open area)                |
| <b>Max. output power of Z-Wave controlled</b> | Max Resistive Load 3520W (15.3A @ 230Vac)                                                                                   |
| <b>Power measurement</b>                      | +/- 1W accuracy from 0W to 32W<br>+/- 3% accuracy from 33W to 3520W<br>Resolution: 1W                                       |
| <b>Overload Protection</b>                    | - It will turn off relay output automatically if the load is exceeded 3600W.<br>- Built-in fuse protection for relay output |

|                              |                 |
|------------------------------|-----------------|
| <b>Dimension (L x W x H)</b> | 125 x 60 x 42mm |
| <b>Weight</b>                | 180g            |
| <b>Storage Temperature</b>   | -10~60°C        |
| <b>Operation Temperature</b> | 0~40°C          |
| <b>Relative Humidity</b>     | 5~95%           |
| <b>Environment</b>           | Indoor use only |

Note: Specifications subject to change without notice due to continuing product improvement.

## Warnings

- To avoid the risk of electric shock, the input prong comes with a round grounding plug. The switch module can only be plugged in to the power inlet with the grounding plug. Please contact a qualified electrician to replace the power inlet if it has no grounding inlet. Do not change the plug of this unit in any way.
- Do not modify the unit in any way.
- Risk of fire.
- Risk of electrical shock.
- Risk of burns.
- This unit never got qualified certificate to supply power for medical instrument or any life support equipment.
- Do not dispose of electrical appliances and unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available.
- There is no user serviceable parts in this unit.