
$400 \times 224 \mathrm{~mm} \quad$ fold to $56 \times 100 \mathrm{~mm}$


USER MANUAL


## Fowave

## Introduction:

Thank you for choosing the ZDS-200 (Dimming Swith Mini Modue) 7 -Wave control productlt ZDS-200 enabled product allows users to remodeley control
lighting, home appliance, and make home control easy with low installation
 Well as some of our rorouctis to buid upa complete home automation system.
The ZDS-200 is a-Wave enabled device and is fully compatible with any $z$.

 lamps. Each module is desinned to act tas arepeater which will re-transmit $a$
radio ftequency (RF) signal by routing the signal around obstacese and radio

Glossary

| $\begin{array}{\|l\|l\|} \hline \text { Device I } \\ \text { Light / Node } \end{array}$ | Devices, lights and nodes are all terms to describe an individual ZWave device. These terms are all interchangeable when setting up your Z-Wave network. |
| :---: | :---: |
| 2.Wave Network | A collection of Z-Wave devices are 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. |
| Iusion | Add 2 -Wave device to the |
| clusion | Delete a 2 -Wave device foom the newor |
| Network Wide Inclusion (NW |  |
| Association | Association is used to organize nodes into different groups allowing the device to identify the nodes with a group identifier. These groups can also be copied to other devices. |
| scene | A scene is a collection of Z-Wave devices configured to turn to a specific level, setting, mode, or perform an operation. Scenes are |

Ensure that the loading does not exceed 330
. Watts Resisitive Load.
10. Press the butuon to turn wal the Agh outlel. presss the button once to turn the light oNif the device is OFF and vice-

## Z-Wave setup and operations

ZDS-200 can be configured as either a "DIMMER" or a "SWITCH" device, and t twil detece the operation mode using the postion of the slide switch when powering on. The ZDS-200 will stay in the selected operation mode ater removing and re-adding power.
If the user needs to change the
the user needs to change the operation mode, the user must first peform an exclusion process. The user will then swith to the target
(Dimmer or SWith), and re-include the
ZDS-20
Warning:
Warning:
sWITH Mode is reauied for inductive and capacitive devices unsuitable
for dimming, e.e.f. furesescent lamps, motoris etci.). The diemming tunction Tor diminga, (e.g. fluresecole It coutd ddamage the Zode-. 20 if coonnected to non-dimmable load and
perform dimming tunction


Key Features:
Pports Dual mode (DIMMER and SWITCH)
 Support Scene control
Suppor Association Grou
Support Associaion Group and Auto Report swith status
Suports Network Wide Inclusion (NWI) and Explore Frames
Hipots

Grounded 3-wire power connection for sate
Does not bock bow
Does not block lower outet when plugged into upper oultet of a duplex wall
receptacie

## Product Overview:

A Staus LED
C ONOFFIDIMMERP
AC plug eswith (SWITCH or DIMMER Mode)


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Z-Wave Remote Control
clude or exclude the ZDS-200 from the exising $Z$-Wave home contio
Referer to your primary controller instuctions to process the inclusion exclusion setup procedure.
When prompted by your primary controller, triple e lick the PROG butto
 (The unit will enter classical inclusionexccusion fists then jump to NWI, and
atter 5 seconds, it will finaly exit NWI mode automatically if there is $n 0$ inclusiocterccusision request.)
-The priman contoles shoul indicate that the action was successstul. If the The pimany controler should indicate that the action was successstul. If tip
controller indicates the action was unsuccesstul) please repeat the procedure.
Once the
Once the unitis part of the network, the same basic procedure is used
add the sate add the same unit to a group or scene. Refer to the primary controllert
instuction for more detiais for addinglemoving the unit tofrom the
scenelassocition scenelassociation.
All configuration parameter values will keep no changes ater excluding the
nnit foom the newwork, except tor the parameter number 1 and Assocition fifmation.
2.Wave Configuration Parameters Different user has difierent preferered setings of their thermostat, you may use the below co
functionality.


Instaliation and Warning
The incandescent ight plugged intithe $z$-Wave controled outtet on this
 into the $Z$-Wave controled outiter may resuntt in damage to the $Z$ DS-200
Dimming Swich


|  | Grounded AC outlet VS 2-pins AC power plug 110 |  |
| :---: | :---: | :---: |
| Installed at upper AC outlet |  |  |
| Installed at lower AC outlet |  |  |

Basic Operation
 powering on.

Warning:
sWiTcH Mode is required for inductive and capacitive devices unsuitable
.
 It could damage the ZDS-200 if connected to non-dimmable load and The connected device can be turned ON in two ways: 2. Manual control with the per


Manual ON/OFF/DIM function


| Definitions | Switch returns to the last position saved before |
| :---: | :---: |
| Parameter No. | $5(0 \times 05)$ |
| Parameter value | $0(0 \times 00)-$Swith does not save the state after power <br> failure, device returns to "off position <br> Swith saves its state before power failure$1(0 \times 01)$ |
| Defaut Value: | $1(0 \times 01)$ |
| Dimmer Mode: | Supported |
| Swith Mode: | Supported |


| Definitions: | Double click option (set to max. brightness) |
| :---: | :---: |
| Parameier ${ }^{\text {No:: }}$ | 13 (0x00) |
| Parameier value | O(0x00)- Double cick funcioio disabled |
| Defaut Value: | 1(0x01). Double elick function enabled |
| Diamer Mode: | Supported |
| Swith Mode: |  |


| Definitions: | Time of moving the Dimmer from 0\% to max. dimming values. <br> (The ZDS-200 will implement the dimming duration if received this parameter value from controller/gateway. Otherwise, the ZDS-200 will implement the local parameter value) |
| :---: | :---: |
| Parameter No.: | 17 (0x11) |
| Parameter value: | Dimmer Mode |
|  | $\xrightarrow{\substack{\text { From } 0 \text { 0 } \\ \text { Stes } \\ \text { Seseconds } \\ \text { Size } \\ \text { second }}}$ |
| Defaut Value: |  |
| Dimmer Mode: | Supported |
| Swith Mode |  |




## $00 \times 224 \mathrm{~mm}$ <br> fold to $56 \times 100 \mathrm{~mm}$



Noterse
In order to avoid flickering and to support non-dimmable devices, the ZDS-200
Figue 1 provides parameter no. 18 and 19 (.max, and min. didmer leveve control) If
there is is fickering, the user can re-configure the max. and min. level for the dimmer to skip the tickering a min. or max. Evel

## Step-1: Set the maxin <br> Set the maximum value to $99(99 \%)$ - - parameter no. 18. <br> 

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## Technical Specifications

| Model n . | Bve130US (ZDS-200NA) |
| :---: | :---: |
| RF fequency | 900.42 MHz |
| Input volige Iferuency | 120Vac/ 60 Hz |
| RF operating disiance | up to 30 m (line of sight between the Wireless Controller and the closest $Z$-Wave receiver module at open area) |
|  | DIMMER: Max Incandescent load 330W 2.75 A |
| Max. outut power | SWITCH: Max Incandescent Load 330W 2.75A |
| er Temeerature polection | Detected internal temperature and cut off output once OTP triggered (Remark: Under over loading or temperature situation, it will fail to start up). |
| Dimension (LXW×T) | $100 \times 54 \times 39 \mathrm{~mm}$ |
| Weight | ${ }_{1259} 1$ |
| Storag Temperature | -10-60 ${ }^{\circ} \mathrm{C}$ |
| Opeation Temperature | $0.40^{\circ} \mathrm{C}$ |
| Realive Alumidy: | 5-95\% |
| Enviomment | Indoor use only |

Note:Specifications subject to change without noice due to continuing produc

Step-4: User is reauired to distinguish the ficikering points by adiusting the User can adiust the bigighness level upwardsddownwards from $50 \%$ until the $\underset{\vdots}{\text { filcking pointis disisingushed. }}$
Leower (initit.e. $\mathbf{e}$. $30 \%$ )

 zDS-200 asso can act as " "Swith" with parameter no. 17, 18 and 19 . The
"Switch"
"unction is required for inductive and capactive devices unsuitable for dimming (e.g. fluresesent lamps, molors etc.).

## Support for Association Groups

 Association group_1
 ZDS-200 will trigger AUTO report function if the Dimmer or Swith status had een changed.

## Association group 2 :




- Swith mode: Ater receiving a a abicice set ocom.
 (Max. 4 node 1 D's can be assigned to this association group)
Please refer toy your controlle's' instructions for information on whether or not
it supports the Association function.


## Certifications

ULL Listed:
This power
Uhis power unit is intended to be correctly orientated in a vertical or floor
nount position. FCC C Information
FCC 10 : 2ADPEDA011
.
This device complies with Part 15 of the FCC Rules. Operation is subject to efollowing two conditions:
 that may cause undesied operation.
Notie:
This equipment has been nested and fond to comply with the linits for C Class
B digitial device, pursuant to Part 15 of the FCC Reses. These limits are



 television reception, which can be determined by turning the equipment off and
on,
the user is encourgeded to to to to correct the interference by one or more of on, the useri is encourage
the following measurs:
Reorient or relecaceat the receiving antenna.
Increase the separation between the evi.
 the receiver is comnected.
Wanning:
Changes or modifications to this unit not expressly apporved by the party
repsonsibele for compliance could void the user authority to operatie the
equimment

Operation diagram for Association Groups:


User can assign 0 to 4 node ID's (from node ID-B to ID-E) to its associaion
Function example: ZDS-200 will send out a control command to Associaition
froup_ devices when ZOS-200 status had been changed.

## ALL ON/OFF functions

Depending upon your primary controller, the ZDS.200 can be set to respond to ALL ON and ALL OFF conmmands up to four difierent ways. Some controle


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IC information
IC 12522 SeAA-AOO11
This device complies with Industry Canada licence-exempt RSS standard(s).
. Operation is subject to the following two conditions:
this device may not cause intererence, and
(1) this device may not cause interference, and
cause undesiried operation of the device.
Tis device complies with RSS-310 of Industry Canada. Operation is subjed

## Caution

reduce the isk of overheating and possible damage to other equipmen ont instal to control a a motor-operarated appliance, a non-dimmat
ond

## Tornings

Troundiing tire isk of electic shock, the input prong comes with a round inlet with the grounding pluoule can only be plugged in to the powe replace the power inet fift has no go grounding inlet. Doon oot thange the plug of this untin in any way.
Donot modify he unit in any way.
Rist
Risk of fire.
Risk of electrical shock.
Risk of burns.
This unit never got qualifed certificate to supply power for medical
 rearading the collection systems avaiable.
There are no user seniceable parts in this un.

- It will respond to OLLO O O and the

LED Indication Status

| Operations | LEO Indication Status |
| :---: | :---: |
| Device load durued on | ${ }^{\text {LEP Dums on }}$ |
| Devce load urned off |  |
|  |  |
|  | Leo wir coninuousy fiash w |
|  | ${ }_{\text {l }}$ Ithe device a |
|  | Slowly for 2 |
|  | (thene dive does note xistit the nework. Lew will kei |
|  | flash slowly and waiting for Network Wide Inclusion (NWI) (The device will exit NWI mode automatically after |
|  |  |
| ndordata | OFF stage. |
| figure command eror | LED vil rapidy |

## Wireless Information

Wrireless range:
This device
and open-air ine-of-sight trassission distance of 30 m, which
somplan is compiant with the t-Weve standards. Performance can vary depenaing on
the type of of ostacles, such as walls and furinture, between the $z$-Wave
 apeealer, al reception dead sem spols caused by y these obstacteles.
Rasdio Frequenency Lixitititons:
 have less effect on the signal than concrete, brick, or itie.
housed in meatal unction boxes, which could readuce the reange by up to 20 -
$30 \%$ -

## Maintenanc

Do not expose your unit to dust, strong sunlight, humidity, high 1emperatures or mechanical shocks.
3. Keep tue unoritosiste or or barasive eleansers on your unit. Contains no user-senicicable parts
Restoring Factory Defaults
Ail Configuration Parameter values and Association information will be

| Step | Setup Key | LED Indication Status |
| :---: | :---: | :---: |
| 1 | Press and keep holding the PROG button for no less than 10 seconds. | -LED state will toggle for first 5 seconds LED state will toggle again after the remaining 5 seconds. |
| 2 | Release the PROG button then triple click the PROG button within 2 seconds of step 1 | - LED will stay in previous ON or OFF stage. |

do

## Warranty

ONE-YEAR LMITED WARRANTY: Remotec warrants this product to be fre
 dealer

REMOTEC Shall not be liable for
Damages caused by dofécecive devices for indiriect incidental, specia
consequential or puntive damages, including inter alia loss of proits savings, data, loss of benefits, llasims by by third partities and any propoperty damage or personal iniuries atising from or related to the use of the device. Senive tipist to provide instuction on product us.
Shipoing costs for replacement products.

This warannty is sinited to the repair or replacement of this product only, if the
purchase date cannot be substantiated the warany peiod wil beein on purchase date cannot be substantitied, the warranty period will begin on the
date of manufacaure as indicated on this product. Al waranty claims must be made to Remotec appointed distributors or dealers during the applicable waranty period. This warranty gives you specifici legal right and you may also
have other rights which vary in each country. Please contact Customer have onter at
Remotec Technology Linited
Email: trisase@eremotec com


