Wireless Lighting Control

ZDS-200NA Dimming Switch Module (Dual mode)

Introduction:
Thank you for choosing the ZDS-200 (Dimming Switch Module). The ZDS-200 is a Z-Wave enabled device and is fully compatible or ON/OFF control of specified lamps. Each module is designed to act as a repeater, which will re-transmit a radio frequency (RF) signal by routing the signal around obstacles and radio dead spots to ensure that the signal is received at its intended destination.

2. Plug the lamp into the ZDS-200 Z-Wave outlet. Ensure that the loading does not exceed 330 Watts Incandescent.

3. Plug the ZDS-200 into a wall AC outlet.

4. Press the button to turn the light ON/OFF. This button is a toggle switch (press the button once to turn the light ON if the device is OFF and vice-versa).

5. Pressing and holding the button will control the brightness. Release the button when the desired brightness is attained. (This is also a toggle function - press and hold the button to increase the brightness. To decrease the brightness, press and hold the button again.)

6. Unplug the ZDS-200 from wall AC outlet.

7. Switch to SW1 (ON) mode.

8. Plug the lamp into the ZDS-200 Z-Wave outlet. Ensure that the loading does not exceed 330 Watts Incandescent or 500 Watts Resistive Load.

9. Plug the ZDS-200 into a wall AC outlet.

Z-Wave Setup and Operations
The ZDS-200 can be configured as either a "DIMMER" or a "SWITCH" device, and it will select the operation mode using the position of the slide switch when powering on.

- If you primary controller instructions to process the inclusion / exclusion setup procedure.
- When prompted by your primary controller, triple click the PRIV button in 1 second.
- The ZDS-200 will stay in the selected operation mode after re-wiring or re-setting power.
- If the user needs to change the operation mode, the user must first perform an exclusion process. This process will then switch to the primary operation mode (DIMMER or SWITCH), and it will include the ZDS-200 afterwards.

Warning:
- SWITCH Mode is required for inductive and capacitive devices unsuitable for dimming, (e.g. fluorescent lamps, motors etc.). The dimming function will be disabled in this mode.
- It could damage the ZDS-200 if connected to non-dimmable load and perform dimming function in "DIMMER" mode.

Z-Wave Remote Control
- Include or exclude the ZDS-200 from the existing Z-Wave home control network with your primary controller.
- Refer to your primary controller instructions to process the inclusion / exclusion setup procedures.
- When prompted by your primary controller, triple click the PRIV button in 1 second.
- The ZDS-200 will stay in the selected operation mode after re-wiring or re-setting power.
- Once the unit is part of the network, the same basic procedures is used to add the unit to a group or scene. Refer to the primary controller's instructions for more details for adding the unit to a group or scene.
- A configuration parameter values will keep no change after excluding the unit from the network, except for the parameter number 1 and Association number.

Z-Wave Configuration Parameters
Different user has different preferred settings of their thermostat, you may use the following configuration parameters to change settings of corresponding functionality.

- Different/Active effective units to ALLOW/ON

- Definition: Minimum Dimmer level control (refer to Figure 1 and Table)

- Parameter No.: 17 
  - Minimum Dimmer level control
  - Parameter value: 0 (0x00) - Switch does not save the state after power failure, default value: 1 (0x01)

- Definitions: Maximum Dimmer level control

- Parameter No.: 11 
  - Maximum Dimmer level control
  - Parameter value: 0 (0x00) - All ON is not active, ALL OFF is not active

- Definitions: Minimum Dimmer level control

- Parameter No.: 18 
  - Minimum Dimmer level control
  - Parameter value: 0 (0x00) - Switch does not save the state after power failure, default value: 1 (0x01)

- Definitions: Maximum Dimmer level control

- Parameter No.: 19 
  - Maximum Dimmer level control
  - Parameter value: 0 (0x00) - Double click function disabled, default value: 1 (0x01)
Step-3: Go back to normal operation mode for dimming.

**Example Procedure:**

**Step-1:** Set the maximum value to 95% (ID-C) - parameter no. 18.

**Step-2:** Set the minimum value to 0% (ID-E) - parameter no. 11.

**Step-3:** Go back to normal operation mode for dimming.

Support for Association Groups

ZDS-200 supports 2 association groups. A maximum of 14 node IDs (multi-channel device) can be assigned to these association groups.

**Association group 1:**
- A device may use a setup status device such as a configuration device to register in this association group (Max. 1 node ID can be assigned to this association group).
- ZDS-200 will send out a control command to this association group.
- If a Dimmer switch status has been changed.

**Association group 2:**
- A device may use a setup status device such as a configuration device to register in this association group (Max. 1 node ID can be assigned to this association group).
- ZDS-200 will send out a control command to this association group.
- If a Dimmer switch status has been changed.

**Z-Wave Dimming commands**

**Max. output power**

**RF operating distance**

**Indoor use only**

ZDS-200 also can act as a “Switch” with parameter no. 17, 18, and 19. The “Switch” function is required for inducible and capacitive devices unsuitable for dimming (e.g. fluorescent lamps, motors, etc.).

**Operation diagram for Association Groups:**

**Operation diagram for dimmer and switch mode**

Step-4: User is required to distinguish the flickering points by adjusting the dimming level on controller such as gateway on ZRC-100.

User can adjust the brightness level approximately from 1%-% to 100%-1% from the flickering point.

**No. of Node ID in Association Group_1, 1 max.** (A200 configuration)

**No. of Node ID in Association Group_2, 4 max.**

User can assign 0 to 4 node IDs from node ID-B to ID-E to its association group.

**ALL ON/off commands**

Depending upon your primary controller, the ZDS-200 can be well to respond to ALL ON and ALL OFF commands upon four different ways. Some controllers may not be able to change the response from its default setting. Please refer to your controller's instructions manual for information on whether or not it supports the configuration function and how to change these settings.

**Restoring Factory Defaults**

All Configuration Parameter values and Association information will be restored to factory default settings and excluded on the network.

**Warranty**

ONE-YEAR LIMITED WARRANTY: Remotec warrants this product to be free from defects in materials and workmanship under normal use and service for a period of one year from the original date of purchase from the distributor or dealer.

**Remotec's Obligation:**

- Damages caused by defective devices for indirect, incidental, special, consequential or punitive damages, including, inter alia, loss of profits, savings, data, loss of benefits, claims by third parties and any property damage in personal injuries arising from or related to the use of the device.
- Service trips to provide instruction on product use.
- Shipping costs for replacement products.

This warranty is limited to the repair or replacement of this product only. If the purchaser desire to that the repair or replacement of this product. If the purchaser desire to that the repair or replacement of this product.