

new one™

Mini SmartPlug Dimmer Manual

Federal Communications Commission (FCC) Statement

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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: 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. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

IC Caution:

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.

DECLARATION DE CONFORMITE D'INDUSTRIE CANADA

Ce périphérique a été testé et reconnu conforme aux limites spécifiées dans RSS-210.

Son utilisation est soumise aux deux conditions suivantes :

- (1) il ne doit pas provoquer d'interférences gênantes et
- (2) il doit tolérer les interférences reçues, notamment celles susceptibles d'en perturber le fonctionnement.

WARRANTY

NEW ONE 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. If the unit should prove defective within the warranty period.

SPECIFICATIONS

Model: N4002
Power: 120 VAC, 60 Hz.
Signal (Frequency): 908.42 MHz.
Maximum load for outlet 500W Resistive
Maximum load for the Z-Wave™ controlled outlet:

Range: Up to 100 feet line of sight between the Wireless Control and the closest Z-Wave™ receiver module.
Operating Temperature Range: 32-104° F (0-40° C)

Specifications subject to change without notice due to continuing product improvement

Website: www.nie-tech.com

WARNING

RISK OF FIRE
RISK OF ELECTRICAL SHOCK
RISK OF BURNS
CONTROLLING APPLIANCES:
EXERCISE EXTREME CAUTION WHEN USING Z-Wave™ DEVICES TO CONTROL APPLIANCES. OPERATION OF THE Z-Wave™ DEVICE MAY BE IN A DIFFERENT ROOM THAN THE CONTROLLED APPLIANCE, ALSO UNINTENTIONAL ACTIVATION MAY OCCUR IF THE WRONG BUTTON ON THE REMOTE IS PRESSED. Z-Wave™ 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 CONDITION. FOR THESE REASONS, WE RECOMMEND DO NOT RETURN THIS PRODUCT TO THE STORE THE FOLLOWING:
DO NOT USE Z-Wave™ 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.



Mini SmartPlug Dimmer

Introduction:

This product can be operated in any Z-Wave™ network with other Z-Wave Plus™ certified devices from other manufacturers. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network. 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. N4002 is a security enabled Z-Wave Plus™ device. A security Enabled Z-Wave Plus™ Controller must be used in order to fully utilize the product. The Device Type of the N4002 is on/off power switch. The Role Type of the N4002 is Always On Slave Role Type

Key Features:

- 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 firmware upgrades via Over-the-air (need Gateways support)
- Support Scenes

Product Overview:

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



Key function description

- Function 1: Press the button to turn the output ON or OFF
- Function 2: quickly press 3x Button: ADD(inclusion) (only if switch is not included in network)quickly press 3x Button:Remove(exclusion)
- Function 3: Press click Z-Wave™ button 3 times quickly, and hold for at least 10 seconds at the third time to restore the device to the factory (Node:Please use this procedure only when the network primary controller is missing or otherwise inoperable.)
- Function 4: Tap A(1x/2x/3x/4x/5x/Hold/Release) Activate the scene.

Adding Your Device To A Hub

The device support two methods of inclusion,When using a Z-Wave Plus™ certified controller choose Network Wide Inclusion or SmartStart, Network Wide Inclusion To A Z-Wave™ Network

- 1,Refer to your primary controller instructions to process the inclusion / exclusion setup procedure.
- 2,When prompted by your primary controller, click the button three times in one second.

The device is compatible with SmartStart

SmartStart enabled products can be added into a Z-Wave™ network by scanning the Z-Wave™ QR Code found on the top of the outlet or the back of the box with a controller providing SmartStart inclusion.No further action is required and the SmartStart product will be added automatically within 10 minutes of being switched on and in the network vicinity.

QR CODE

the QR code are stucked to the side of the case,DSK is included in the QR code. DSK

The DSK code can be found on the DSK label which is attached on the packaging box.



Command Class

Command Clas	Version	Required Security Class
Z-Wave Plus Info	V2	none
Switch Multilevel	V4	highest granted
Configuration	V4	highest granted
Central Scene	V3	highest granted
Association	V3	highest granted
Multi Channel Association	V3	highest granted
Association Group Information	V3	highest granted
Transport Service	V2	none
Version	V3	highest granted
Manufacturer Specific	V2	highest granted
Device Reset Locally	V1	highest granted
Indicator	V3	highest granted
Powerlevel	V1	highest granted
Security 2	V1	none
Supervision	V1	none
Fimware Updata Meta Data	V5	highest granted

Z-Wave™ Configuration Parameters

You may use the below configuration parameters to change settings of the corresponding functionality.

2: Status LED Configuration

Parameter No: 2(0x02) Size:1 Byte
Value: 00(default) Output and the LED are in the different state.
Value: 01 Output and the LED are in the same state.
Value: 02 LED Always OFF
Value: 03 LED Always ON

3: Auto Turn-Off Timer

Parameter No: 3(0x03), Size=4,
Values:0 (minutes) default;
Values: 1 - 65535 (minutes);

5: Auto Turn-Off Timer

Parameter No: 5(0x05), Size=4,
Values:0 (minutes) default;
Values: 1 - 65535 (minutes);

8: Restores state after power failure

Parameter No: 8(0x08) Size:1 Byte
Value: 00 Output OFF.
Value: 01 Output ON.
Value: 02 (default) The state before a power outage.

9: Ramp rate (Local Button + Z-Wave™)

Parameter No: 9(0x09), Size=1, Default =1
Value=1 from 0x63 to 0x00 or from 0x00 to 0x63 need 1s
Value=2 from 0x63 to 0x00 or from 0x00 to 0x63 need 2s
.....
Value=99 from 0x63 to 0x00 or from 0x00 to 0x63 need 99s

10: Multilevel minimum value can be set (Local Button)

Parameter No: 10(0x0A), Size=1, Default =1
Value=0 disable
Value=1
Value=2
.....
Value=99

11: Multilevel maximum value can be set (Local Button)

Parameter No: 11(0x0B), Size=1, Default =99
Value=0 disable
Value=1
Value=2
.....
Value=99

12: Double Tap Behavior---when switch is off and quickly press button 2 times, switch turns on to x brightness

Parameter No: 12(0x0C), Size=1, Default =0
Value=0 enable double tap to full brightness (99)
Value=1 custom value set in parameter 18
Value=2 enable double tap to maximum brightness (turn on to the value relate with parameter 11)
Value=3 disable double tap to full brightness

15: Enable or Disable local / Z-Wave™ control

Parameter No: 15(0x0F) Size:1, Default =1
Value: 00 disable
(when paddle pressed switch will not turn light on or off BUT it will still control the light via Z-Wave™ and it will change LED indicator status and on/off/multilevel status when paddle is pressed)
Value: 01 enable (normal operation like now)
Value: 02 disable local and Z-Wave™ control
(LED and on/off status will still change if paddle pressed) >>
make sure that status is still reported and LED indicator changes when Z-Wave™ control is disabled

16: dimmer speed (only for local press & hold)

Parameter No: 16(0x10), Size=1, Default =5
Value=1 from 0x63 to 0x00 or from 0x00 to 0x63 need 1s
Value=2 from 0x63 to 0x00 or from 0x00 to 0x63 need 2s
.....
Value=99 from 0x63 to 0x00 or from 0x00 to 0x63 need 99s

20: Association reports

Parameter No: 20(0x14) Size:1, Default =2
Value: 00 Z-Wave™ control: Multilevel report (without each level, just final level)
Manual control (short press): Basic report (without each level, just final level)
Manual control (long press & relay enable): Basic report (without each level, just final level)
Manual control (long press & relay disable): Multilevel report (each level will be reported)
Value: 01 Z-Wave™ control: Multilevel report (without each level, just final level)
Manual control (short press): Basic report (without each level, just final level)
Manual control (long press & relay enable OR disable): Basic report
Value: 02 Z-Wave™ control: Multilevel report (without each level, just final level)
Manual control (short press): Multilevel report (without each level, just final level)
Manual control (long press & relay enable): Multilevel report (without each level, just final level)
Manual control (long press & relay disable): Multilevel report (each level will be reported)

21: Disabled Relay Behavior

Parameter No: 21(0x15) Size:1, Default =0
Value: 00 report on/off and multilevel status when paddle is pressed and change LED indicator status and
Parameter 15 is set to value 0 or 2 (output control disabled) according to setting in Parameter 20
Value: 01 DON' t report on/off or multilevel status or and change LED indicator status when paddle is pressed and
Parameter 15 is set to value 0 or 2 (output control disabled).

22: Night Mode Brightness Level---Set the level of brightness the dimmer will turn on to when off and held Button for 2 seconds

Parameter No: 22(0x16) Size:1, Default =0
Value: 00 disable function
Value: 01-99

23: LED Indicator Color

Parameter No: 23(0x17), Size=1, Default =1
Value=0 White
Value=1 Blue
Value=2 Green
Value=3 Red

26: LED Indicator Brightness

Parameter No: 26(0x18), Size=1, Default =1
Value=0 Bright (100%)
Value=1 Medium (60%)
Value=2 Low (30%)

Support for Association Groups

N4002 supports 3 association groups. Group 1 supports 1 node ID, Group 2 and Group 3 Supports maximum of 5 node ID' s

Association group_1:Z-Wave Plus™ Lifeline

Association group_1 is default to associate with the primary controller (Gateway/Hub/Controller) for N4002 Status change report,

1. N4002 will trigger AUTO report function if the Switch status had been changed.

(ex. Switch Multilevel Report/Indicator Report/Central Scene Notification/ Device Reset Locally Notification)

Association group_2:basic set command on/off control

When the output of the N4002 is changed, On (0xFF) or Off (0x00). The N4002 will automatically send out a related basic set command. On (0xFF) or Off (0x00) to its associated group.

Association group_3:basic set command on/off control

When the output of the N4002 is changed, On (0xFF) or Off (0x00). The N4002 will automatically send out a related basic set command. On (0xFF) or Off (0x00) to its associated group.

Restoring Factory Defaults

N4002 is removed from the network and will be restored to the factory setting

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

Manual Reset:Press click Z-Wave™ button 3 times quickly, and hold for at least 10 seconds at the third time to restore the device to the factory

Remark : All the setting and data will be permanently deleted.

Please use this procedure only when the network primary controller is missing or otherwise inoperable.