NodOn Z-Wave+ Smart Plug ON/OFF (Type E) ASP-3-1-00 Manual

Contents

NodOn

Z-Wave+ Smart Plug ON/OFF (Type E)

SKU: ASP-3-1-00

Quickstart

This is a

On/Off Power Switch
for
CEPT (Europe).

To run this device please connect it to your mains power supply.

To add this device to your network execute the following action:
Long press during 2 seconds to send several NIF during 30 seconds or a triple press to send a single NIF

Please refer to the
Manufacturers Manual for more information.

Important safety information

Please read this manual carefully. Failure to follow the recommendations in this manual may be dangerous or may violate the law.
The manufacturer, importer, distributor and seller shall not be liable for any loss or damage resulting from failure to comply with the instructions in this manual or any other material.
Use this equipment only for its intended purpose. Follow the disposal instructions.

Do not dispose of electronic equipment or batteries in a fire or near open heat sources.

What is Z-Wave?

Z-Wave is the international wireless protocol for communication in the Smart Home. This device is suited for use in the region mentioned in the Quickstart section.

Z-Wave ensures a reliable communication by reconfirming every message (**two-way communication**) and every mains powered node can act as a repeater for other nodes (**meshed network**) in case the receiver is not in direct wireless range of the transmitter.

This device and every other certified Z-Wave device can be **used together with any other certified Z-Wave device regardless of brand and origin** as long as both are suited for the same frequency range.

If a device supports **secure communication** it will communicate with other devices secure as long as this device provides the same or a higher level of security. Otherwise it will automatically turn into a lower level of security to maintain backward compatibility.

For more information about Z-Wave technology, devices, white papers etc. please refer to www.z-wave.info.

Product Description

The NodOn Smart Plug can be controlled by any kind of Z-Wave (or Z-Wave Plus) gateway or other Z-Wave controller (standalone mode) such as the NodOn Soft Remote or Octan Remote.In both standard, Type E (French) or Schuko (German), the plug can be mounted in both side (head up or head down). Combined to its ultra-thin design, these both specificities allow an easy integration, without obstructing nearby power holes on a power strip. Equipped with a very small super-capacitor, the NodOn Smart Plug is able to send an emergency frame to the gateway in case of power outage. The NodOn Smart Plug is based on brand new 500 series Z-Wave module from Sigma Designs, and support all the new features of Z-Wave Plus standard: Longer range (up to 40m), lower power consumption, higher data rate transmission, and many more new features.

Prepare for Installation / Reset

Please read the user manual before installing the product.

In order to include (add) a Z-Wave device to a network it **must be in factory default state.** Please make sure to reset the device into factory default. You can do this by performing an Exclusion operation as described below in the manual. Every Z-Wave controller is able to perform this operation however it is recommended to use the primary controller of the previous network to make sure the very device is excluded properly from this network.

Reset to factory default

This device also allows to be reset without any involvement of a Z-Wave controller. This procedure should only be used when the primary controller is inoperable.

Long press during more than 5 seconds then release.Please use this procedure only when the primary controller is missing or otherwise inoperable.

Safety Warning for Mains Powered Devices

ATTENTION: only authorized technicians under consideration of the country-specific installation guidelines/norms may do works with mains power. Prior to the assembly of the product, the voltage network has to be switched off and ensured against re-switching.

Inclusion/Exclusion

On factory default the device does not belong to any Z-Wave network. The device needs to be **added to an existing wireless network** to communicate with the devices of this network. This process is called **Inclusion**.

Devices can also be removed from a network. This process is called **Exclusion**. Both processes are initiated by the primary controller of the Z-Wave network. This controller is turned into exclusion respective inclusion mode. Inclusion and Exclusion is then performed doing a special manual action right on the device.

Inclusion

Long press during 2 seconds to send several NIF during 30 seconds or a triple press to send a single NIF

Exclusion

Long press during 2 seconds to send several NIF during 30 seconds or a triple press to send a single NIF

Quick trouble shooting

Here are a few hints for network installation if things dont work as expected.

1. Make sure a device is in factory reset state before including. In doubt exclude before include.
2. If inclusion still fails, check if both devices use the same frequency.
3. Remove all dead devices from associations. Otherwise you will see severe delays.
4. Never use sleeping battery devices without a central controller.
5. Dont poll FLIRS devices.
6. Make sure to have enough mains powered device to benefit from the meshing

Association – one device controls an other device

Z-Wave devices control other Z-Wave devices. The relationship between one device controlling another device is called association. In order to control a different device, the controlling device needs to maintain a list of devices that will receive controlling commands. These lists are called association groups and they are always related to certain events (e.g. button pressed, sensor triggers, …). In case the event happens all devices stored in the respective association group will receive the same wireless command wireless command, typically a 'Basic Set' Command.

Association Groups:

Group NumberMaximum NodesDescription

1	5	Z-Wave Plus Lifeline This group is generally used to report information of the Smart Plug to the Main Controller of the network.
2	5	Follow State When the Smart Plug is switched ON (respectively OFF) – either locally or by wireless – it will send ON (respectively OFF) command to the associated devices in the group.
3	5	Follow Complementary StateWhen the Smart Plug is switched ON (respectively OFF) – either locally or by wireless – it will send OFF (respectively ON) command to the associated devices in the group.
4	5	Power Failure NotificationWhen the Smart Plug detects a power outage or a recover of power, it sends to following command to associated devices in the group. Detected = Power Management – AC disconnected Recovered = Power Management – AC re-connected
5	5	Power Failure Set ON When the Smart Plug detects a power outage, it sets ON the associated devices in the group.
6	5	Power Failure Set OFFWhen the Smart Plug detects a power outage, it sets OFF the associated devices in the group.
7	5	Power Recover Set ONWhen the Smart Plug detects a Power Recover, it will switched ON the associated devices in the group.
8	5	Power Recover Set OFFWhen the Smart Plug detects a Power Recover, it will switched OFF the associated devices in the group.

Configuration Parameters

Z-Wave products are supposed to work out of the box after inclusion, however certain configuration can adapt the function better to user needs or unlock further enhanced features.

IMPORTANT: Controllers may only allow configuring signed values. In order to set values in the range 128 … 255 the value sent in the application shall be the desired value minus 256. For example: To set a parameter to 200â€ˆit may be needed to set a value of 200 minus 256 = minus 56. In case of a two byte value the same logic applies: Values greater than 32768 may needed to be given as negative values too.

Parameter 1: DEFAULT STATE

This parameter defines the status of the Smart Plug after a Power Failure or after being plugged.
Size: 1 Byte, Default Value: 2

SettingDescription

0	ON
1	OFF
2	Status before power outage

Parameter 10: Alarm 3 Specifications

This parameter is to set the Alarm 3 Specifications. Use the Home Automation Gateway interface or our Alarm set-up form to define the value corresponding to your need.
Size: 4 Byte, Default Value: 0

SettingDescription

0 – 2097151999	To set-up your values please follow this link : www.nodon.fr/support/asp3/alarm

Parameter 11: Alarm 4 Type Configuration

This parameter is to set the Alarm 4 Type Configuration. Use the Home Automation Gateway interface or our Alarm set-up form to define the value corresponding to your need. (Notification type, Event type, Priority, Lock device, Group 2 Enable, Group 3 Enable, Alarm Action, LED behavior, Alarm duration)
Size: 2 Byte, Default Value: 0

SettingDescription

0 – 65535	To set-up your values please follow this link : www.nodon.fr/support/asp3/alarm

Parameter 12: Alarm 4 Specifications

This parameter is to set the Alarm 4 Specifications. Use the Home Automation Gateway interface or our Alarm set-up form to define the value corresponding to your need.
Size: 4 Byte, Default Value: 0

SettingDescription

0 – 2097151999	To set-up your values please follow this link : www.nodon.fr/support/asp3/alarm

Parameter 13: Alarm 5 Type Configuration

This parameter is to set the Alarm 5 Type Configuration. Use the Home Automation Gateway interface or our Alarm set-up form to define the value corresponding to your need. (Notification type, Event type, Priority, Lock device, Group 2 Enable, Group 3 Enable, Alarm Action, LED behavior, Alarm duration)
Size: 2 Byte, Default Value: 0

SettingDescription

0 – 65535	To set-up your values please follow this link : www.nodon.fr/support/asp3/alarm

Parameter 14: Alarm 5 Specifications

This parameter is to set the Alarm 5 Specifications. Use the Home Automation Gateway interface or our Alarm set-up form to define the value corresponding to your need.
Size: 4 Byte, Default Value: 0

SettingDescription

0 – 2097151999	To set-up your values please follow this link : www.nodon.fr/support/asp3/alarm

Parameter 15: Alarm 6 Type Configuration

This parameter is to set the Alarm 6 Type Configuration. Use the Home Automation Gateway interface or our Alarm set-up form to define the value corresponding to your need. (Notification type, Event type, Priority, Lock device, Group 2 Enable, Group 3 Enable, Alarm Action, LED behavior, Alarm duration)
Size: 2 Byte, Default Value: 0

SettingDescription

0 – 65535	To set-up your values please follow this link : www.nodon.fr/support/asp3/alarm

Parameter 16: Alarm 6 Specifications

This parameter is to set the Alarm 6 Specifications. Use the Home Automation Gateway interface or our Alarm set-up form to define the value corresponding to your need.
Size: 4 Byte, Default Value: 0

SettingDescription

0 – 2097151999	To set-up your values please follow this link : www.nodon.fr/support/asp3/alarm

Parameter 17: Alarm 7 Type Configuration

This parameter is to set the Alarm 7 Type Configuration. Use the Home Automation Gateway interface or our Alarm set-up form to define the value corresponding to your need. (Notification type, Event type, Priority, Lock device, Group 2 Enable, Group 3 Enable, Alarm Action, LED behavior, Alarm duration)
Size: 2 Byte, Default Value: 0

SettingDescription

0 – 65535	To set-up your values please follow this link : www.nodon.fr/support/asp3/alarm

Parameter 18: Alarm 7 Specifications

This parameter is to set the Alarm 7 Specifications. Use the Home Automation Gateway interface or our Alarm set-up form to define the value corresponding to your need.
Size: 4 Byte, Default Value: 0

SettingDescription

0 – 2097151999	To set-up your values please follow this link : www.nodon.fr/support/asp3/alarm

Parameter 19: Alarm 8 Type Configuration

This parameter is to set the Alarm 8 Type Configuration. Use the Home Automation Gateway interface or our Alarm set-up form to define the value corresponding to your need. (Notification type, Event type, Priority, Lock device, Group 2 Enable, Group 3 Enable, Alarm Action, LED behavior, Alarm duration)
Size: 2 Byte, Default Value: 0

SettingDescription

0 – 65535	To set-up your values please follow this link : www.nodon.fr/support/asp3/alarm

Parameter 2: POWER FAILURE

This parameter is to set-up the Power Failure / Recover notification and the associated group (Groups 4, 5, 6, 7, 8). The value may be the sum of available values. For example, if you want to activate Power Failure and enable group 4 & 5, the parameter value is 1+2+4=7.
Size: 1 Byte, Default Value: 0

SettingDescription

0	Power Failure detection disable
1	Power Failure enable (report to Lifeline only)
2	Enable group 4
4	Enable group 5
8	Enable group 6
16	Enable group 7
32	Enable group 8

Parameter 20: Alarm 8 Specifications

This parameter is to set the Alarm 8 Specifications. Use the Home Automation Gateway interface or our Alarm set-up form to define the value corresponding to your need.
Size: 4 Byte, Default Value: 0

SettingDescription

0 – 2097151999	To set-up your values please follow this link : www.nodon.fr/support/asp3/alarm

Parameter 3: FOLLOW STATE

This parameter allows to enable or deactivate Group 2 & Group 3. The value may be the sum of available values. For example, if you want to enable Group 2 & 3, the parameter value is 1+2=3.
Size: 1 Byte, Default Value: 3

SettingDescription

0	Group 2 and Group3 Disable
1	Group 2 Enable
2	Group 3 Enable

Parameter 4: ALWAYS ON

This parameter forces the Smart Plug status to be ON. While enable it is not possible to switch OFF the plug (local or wireless).
Size: 1 Byte, Default Value: 0

SettingDescription

0	Always ON disable
1	Always ON enable

Parameter 5: Alarm 1 Type Configuration

This parameter is to set the Alarm 1 Type Configuration. Use the Home Automation Gateway interface or our Alarm set-up form to define the value corresponding to your need. (Notification type, Event type, Priority, Lock device, Group 2 Enable, Group 3 Enable, Alarm Action, LED behavior, Alarm duration)
Size: 2 Byte, Default Value: 0

SettingDescription

| 0 – 65535 | To set-up your values please follow this link : www.nodon.fr/support/asp3/alarm |

Parameter 6: Alarm 1 Specifications

This parameter is to set the Alarm 1 Specifications. Use the Home Automation Gateway interface or our Alarm set-up form to define the value corresponding to your need.
Size: 4 Byte, Default Value: 0

SettingDescription

| 0 – 2097151999 | To set-up your values please follow this link : www.nodon.fr/support/asp3/alarm |

Parameter 7: Alarm 2 Type Configuration

This parameter is to set the Alarm 2 Type Configuration. Use the Home Automation Gateway interface or our Alarm set-up form to define the value corresponding to your need. (Notification type, Event type, Priority, Lock device, Group 2 Enable, Group 3 Enable, Alarm Action, LED behavior, Alarm duration)
Size: 2 Byte, Default Value: 0

SettingDescription

| 0 – 65535 | To set-up your values please follow this link : www.nodon.fr/support/asp3/alarm |

Parameter 8: Alarm 2 Specifications

This parameter is to set the Alarm 2 Specifications. Use the Home Automation Gateway interface or our Alarm set-up form to define the value corresponding to your need.
Size: 4 Byte, Default Value: 0

SettingDescription

| 0 – 2097151999 | To set-up your values please follow this link : www.nodon.fr/support/asp3/alarm |

Parameter 9: Alarm 3 Type Configuration

This parameter is to set the Alarm 3 Type Configuration. Use the Home Automation Gateway interface or our Alarm set-up form to define the value corresponding to your need. (Notification type, Event type, Priority, Lock device, Group 2 Enable, Group 3 Enable, Alarm Action, LED behavior, Alarm duration)
Size: 2 Byte, Default Value: 0

SettingDescription

| 0 – 65535 | To set-up your values please follow this link : www.nodon.fr/support/asp3/alarm |

Technical Data

Hardware Platform	ZM5202
Device Type	On/Off Power Switch
Network Operation	Always On Slave
Firmware Version	01
Z-Wave Version	6.51.02
Certification ID	ZC10-15030002
Z-Wave Product Id	0x0165.0x0001.0x0001
Frequency	XXfrequency
Maximum transmission power	XXantenna

Explanation of Z-Wave specific terms

- **Controller** — is a Z-Wave device with capabilities to manage the network.
  Controllers are typically Gateways,Remote Controls or battery operated wall controllers.
- **Slave** — is a Z-Wave device without capabilities to manage the network.
  Slaves can be sensors, actuators and even remote controls.
- **Primary Controller** — is the central organizer of the network. It must be
  a controller. There can be only one primary controller in a Z-Wave network.
- **Inclusion** — is the process of adding new Z-Wave devices into a network.
- **Exclusion** — is the process of removing Z-Wave devices from the network.
- **Association** — is a control relationship between a controlling device and
  a controlled device.
- **Wakeup Notification** — is a special wireless message issued by a Z-Wave
  device to announces that is able to communicate.
- **Node Information Frame** — is a special wireless message issued by a
  Z-Wave device to announce its capabilities and functions.