

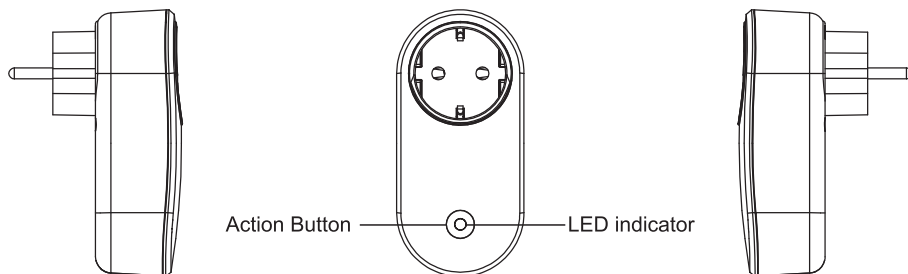
NAMRON Z-WAVE VEGGPLUGG

09.ZV9020A.04765



Important: Read All Instructions Prior to Installation

Function introduction



Note: this figure is a sample of EU version. For other versions, the product appearance would be different.

Product Data

Radio Frequency	868.42 MHZ (EU)/869.0 MHZ (RU)/908.42 MHZ (US)
Input Voltage	AC230V, 50Hz
Max. Load	16A/3680W
Over Current Protection	16.1A
Operating temperature	0 to 40°C
Relative humidity	8% to 80%
Dimensions	114.8×54.8×74.7(mm)

Safety & Warnings

- DO NOT install with power applied to device.
- DO NOT expose the device to moisture.

Quick Start

How to install:

- Step 1: plug the Z-Wave smart plug into a wall socket and power on it.
- Step 2: activate inclusion mode on your Z-Wave controller.
- Step 3: activate inclusion mode of the smart plug by triple press the action button on the plug and LED indicator will flash a white LED fast for 6 seconds then stay solid white for 3 seconds to indicate successful inclusion.

Product Description

The Z-Wave Smart Plug is a Z-Wave device that is used to power connected lighting using Z-Wave Plus and can be controlled by other Z-Wave devices. The device cannot act as Z-Wave network controller (primary or secondary) and will always need a Z-Wave network controller to be included into a Z-Wave network.

The encryption modes that the smart plug supports are S0, S2 Unauthenticated. When the smart plug is being included into a Z-Wave network, you can use your primary controller/gateway to enable one encryption mode or disable encryption. (The primary controller/gateway shall support encryption mode configuration).

Installation Guide

Please read carefully the enclosed user manual before installation of the smart plug, in order to ensure an error-free functioning

ATTENTION: Prior to installation of the smart plug, the voltage network has to be switched OFF and ensured against re-switching.

Inclusion (adding to a Z-Wave network)

1. Set primary controller/gateway into inclusion mode (Please refer to your primary controllers manual on how to turn your controller into inclusion).

2. Power on the smart plug, make sure it does not belong to any Z-Wave network. Press and hold down action button for over 10 seconds, if the LED indicator flashes yellow slowly, it means it does not belong to any network, if the smart plug has already been included into a network, it will be removed from the network and reset to factory defaults. There are two methods to set the smart plug into inclusion mode:

- 1) Repower on the smart plug, it will be set into inclusion mode automatically, and waiting to be included.
- 2) Triple press the action button on the smart plug, it will set the plug into inclusion mode.

The LED indicator will flash a white LED fast then stay solid white for 3 seconds to indicate successful inclusion. If there is no Z-Wave network available, the LED indicator will flash white fast for 6 seconds and the plug will quit inclusion mode automatically.

Exclusion (removing from a Z-Wave network)

There are two exclusion methods:

Method 1: Exclusion from the primary controller/gateway as follows:

1. Set the primary controller/gateway into exclusion mode (Please refer to your primary controllers manual on how to set your controller into exclusion).

2. Triple press the action button, the smart plug will be set to exclusion mode, the LED indicator will flash a white LED fast and then flash white slowly for 3 times to indicate successful exclusion. If exclusion fails, the LED indicator will flash fast for 6 seconds and the plug will quit exclusion mode automatically.

There are 3 methods for the smart plug to quit "exclusion mode". Once it quits "exclusion mode", the LED light will stop the fast fade-in and fade-out status.

1. Automatically quits after successful exclusion.
2. Quits after 6 seconds timeout.
3. Repower on the smart plug.

(Note: When the smart plug already included to a network, triple press action button, the smart plug will be set into exclusion mode and quit exclusion mode alternatively.)

Method 2: Factory reset the smart plug will force the it to be excluded from a network. (please refer to the part "Factory Reset" of this manual)

Note: Factory reset is not recommended for exclusion, please use this procedure only if the primary controller/gateway is missing or otherwise inoperable.

Factory Reset

Press and hold down action button for over 10 seconds, LED indicator stays solid white for 3s to indicate successful factory reset, release action button, the smart plug will restart automatically.

Association

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). In case the event happens all devices stored in the respective association group will receive a common wireless command.

Association Groups:

Association Groups	Group Name	Max Nodes	Description
Group 1	Lifeline	5	1. Smart plug Factory Reset, send Command Class "Device Reset Locally Notification CC" to associated devices of this group to report factory reset information when factory reset the smart plug. 2. Smart plug overloads, send Command Class "NOTIFICATION_REPORT CC" to associated devices of this group to report overload information. 3. When smart plug state changes, send Command Class "SWITCH_BINARY_REPORT CC" to associated devices of this group to report state information. 4. METER_REPORT

Set and unset associations:

(Note: All association information will be cleared automatically once the smart plug is excluded from a network.)
Set association by operating primary controller/gateway to send packets to the smart plug:
The primary controller/gateway sends packets to the smart plug using “Command Class ASSOCIATION”

Operating the device

Short press action button on the smart plug to switch ON/OFF the load.

LED Indicator State When the Load is Switched on/off

The state of LED indicator will change according to the output load power level when the load is switched on/off.

LED Indicator State	Definition (16.1A Over Current)
Flashes red slowly	Over current
Stays solid orange	Load power > 2200W
Stays solid yellow	Load power 2001-2200W
Stays solid green	Load power 1501-2000W
Stays solid cyan	Load power 1001-1500W
Stays solid blue	Load power <= 1000W
Flashes purple slowly	Firmware updating via OTA
Stays solid white at a low brightness	Load switched off

Node Information Frame

The Node Information Frame is the business card of a Z-Wave device. It contains information about the device type and the technical capabilities. The inclusion and exclusion of the device is confirmed by sending out a Node Information Frame. Beside this it may be needed for certain network operations to send out a Node Information Frame.

How to send out Node Information Frame:

When the smart plug is set to inclusion/exclusion mode again, it will send out Node Information Frame, there are 2 kinds of operation as follows:

1. Triple press the action button, the smart plug will be set to inclusion/exclusion mode, then send out Node Information Frame.
2. When the smart plug is under inclusion mode, there are two kinds of operation:
 - 1) Triple press action button, the smart plug will be set to inclusion mode again, and send out Node Information Frame.
 - 2) If the plug does not belong to any Z-Wave network, repower on the smart plug, it will be set to inclusion mode automatically, and send out Node Information Frame.

Notification report event

notification Type	Triggering Event
NOTIFICATION_TYPE_POWER_MANAGEMENT(08)	POWER_MANAGEMENT_OVERCURRENT_DETECTED (0x06)

Technical Data

Wireless Range	Up to 100 m outside, on average up to 40 m inside buildings
SDK	6.71.03
Explorer Frame Support	Yes
Device Type	On/Off Power Switch
Generic Device Class	GENERIC_TYPE_SWITCH_BINARY
Specific Device Class	SPECIFIC_TYPE_POWER_SWITCH_BINARY
Routing	Yes
FLiRS	No
Role Type	Always On Slave (AOS)

SUPPORTED COMMAND CLASS

Node Info		Support S2
COMMAND_CLASS_ZWAVEPLUS_INFO	V2	
COMMAND_CLASS_SECURITY	V1	
COMMAND_CLASS_SECURITY_2	V1	
COMMAND_CLASS_TRANSPORT_SERVICE	V2	
COMMAND_CLASS_SUPERVISION	V1	
COMMAND_CLASS_SWITCH_BINARY	V1	YES
COMMAND_CLASS_MANUFACTURER_SPECIFIC	V2	YES
COMMAND_CLASS_VERSION	V2	YES
COMMAND_CLASS_CONFIGURATION	V1	YES
COMMAND_CLASS_ASSOCIATION_GRP_INFO	V1	YES
COMMAND_CLASS_ASSOCIATION	V2	YES
COMMAND_CLASS_POWERLEVEL	V1	YES
COMMAND_CLASS_DEVICE_RESET_LOCALLY	V1	YES
COMMAND_CLASS_NOTIFICATION	V3	YES
COMMAND_CLASS_METER	V3	YES
COMMAND_CLASS_FIRMWARE_UPDATE_MD_V2	V4	YES
COMMAND_CLASS_BASIC	V1	YES
COMMAND_CLASS_SCENE_ACTIVATION	V1	YES
COMMAND_CLASS_SCENE_ACTUATOR_CONF	V1	YES

Configuration Command Class

Parameter HEX (DEC)	Size	Description	Default Value
0x0C(12)	1	Power change percentage threshold level Value 0 - disable power change percentage threshold level function Value 1~255 - percentage threshold level	0
0x0D(13)	2	Power change absolute value threshold level (unit is W) 0 - disable power change absolute value threshold level function 1~65535 - absolute value threshold level	0
0x0E(14)①	4	Time interval for periodically active report of voltage value (unit is V) 0: disable the function 60-2678400 (31 days),unit is S, it stands for time interval of 60S to 2678400S	0
0x0F(15)	4	Time interval for periodically active report of current value (unit is A) 0: disable the function 60-2678400 (31 days),unit is S, it stands for time interval of 60S to 2678400S	0

0x10(16)	4	Time interval for periodically active report of power value (unit is W) 0: disable the function 60-2678400 (31 days),unit is S, it stands for time interval of 60S to 2678400S	600 (10 minutes)
0x11(17)	4	Time interval for periodically active report of consumed electricity value (unit is KWH) 0: disable the function 60-2678400 (31 days),unit is S, it stands for time interval of 60S to 2678400S	3600 (1 hour)
0x12(18)	1	Saving load state before power failure 0x00, shut off load 0x01, turn on load 0x02, save load state before power failure	0
0x13(19)	1	Enable/disable to send SWITCH_BINARY_REPORT to the Lifeline when the plug state changes, repower on the plug and factory reset the plug 0, disable to send 1, enable to send	1
0x14(20)②	1	Enable/disable current protection function 0, disable 1, enable	1
0xFF(255)	1	Read only Returns 0xA Y, which means already calibrated, Y means any data	--
<p>Remarks:</p> <p>① Once configuration of time interval for periodically active report of voltage, current, power and consumed electricity are enabled, the command will be sent once the plug is powered on.</p> <p>② Once the load current > 10.5A, the load will be switched off automatically, LED flashes red slowly, the LED indicator will recover to normal state until the load is switched on again or the plug is repowered on and no overload detected. Whether this configuration is enabled or disabled, over current will send notification report command.</p>			

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