



Popp

Smart Outdoor Plug

SKU: POPE700397









This is a secure On/Off Power Switch for Europe. To run this device please connect it to your mains power supply. Adding (Inclusion) and removing (Exclusion) of the device are confirmed by a triple click of the button. Fast blinking LED indicates the factory reset state. The device supports the Security S2 framework with unauthenticated network keys. Please follow the instructions on the central controller when including. The device also supports Smart Start. Please scan the QR code on the outlet cover of the device and your controller will add the device automatically when powered up.

What is **Z-Wave?**

Quickstart

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 Wall Plug Switch Outdoor can be placed between a wall outlet for plugs type F and electric devices, plugged in by a cord. It can switch all loads up to 3500 W. The plug switch is IP 44 rated and can, therefore, be used both in dry as well as humid environments in- and outdoor. Switching is controlled by the local button or wirelessly. The use of the local button and the behavior on wireless commands can be configured using

configuration parameters. When detached from the control of local leads the button on the device can be used to trigger scenes in a central gateway. A single click and double click are distinguished. The device is also measuring the mains voltage supply reporting mains voltage and mains frequency. Additionally, the power consumption of the attached load is monitored as well.

All metering values can be requested from the central controller and will be reported unsolicited if configured.

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.

Installation

Push and hold the button for 10seconds. After 5 seconds the LED on the button will blink fast. Safety Warning for Mains Powered Devices

The device can be plugged into every standard power outlet Type F. Thanks to IP44 rating this device can be used in wet environments such as

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.

bathrooms or basements and even outdoor. Do not stack the device!

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**.

on the device.

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

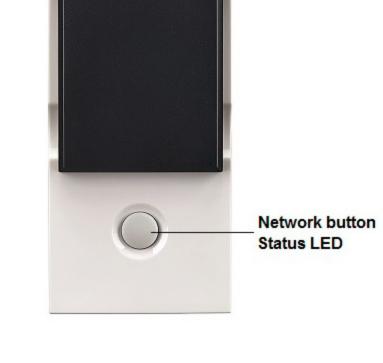
Inclusion Tripple Click the button for inclusion.

Tripple Click the button for exclusion.

Product Usage The device is able to switch electric loads up to 3500 W and can be switched wirelessly or using the local button. The connected load is measured and

reported. Trigger values can define unsolicited power reports. The device includes a virtual circuit breaker. The configuration values 26-28 define the

behavior of this function. Depending on the configuration parameter 4 the local button with either control the local load or sends scene activation commands to the central gateway.



Quick trouble shooting

2. If inclusion still fails, check if both devices use the same frequency.

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

Remove all dead devices from associations. Otherwise you will see severe delays. Never use sleeping battery devices without a central controller.

Make sure a device is in factory reset state before including. In doubt exclude before include.

- 5. Dont poll FLIRS devices. 6. Make sure to have enough mains powered device to benefit from the meshing
- Firmware-Update over the Air

starts the update process, perform the following action to confirm the firmware update: Single Click the button to confirm the update

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: Maximum **Group Number** Description Nodes

This device is capable of receiving a new firmware 'over the air'. The update function needs to be supported by the central controller. Once the controller

5 Lifeline 1 2 5 Control other devices on single click of the button. BASIC command (on/off) is sent according to switching state of the load. **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

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 200 it may be needed to set a value of 200 minus 256 = minus 56. In case of a two

unlock further enhanced features.

byte value the same logic applies: Values greater than 32768 may needed to be given as negative values too. Parameter 1: LED Operation Mode

LED off, only blinks on traffic

Defined by Parameter 21 and 22

Defines when the LED shall shine and how Size: 1 Byte, Default Value: 1 Setting Description

Parameter 2: Auto Off

Size: 2 Byte, Default Value: 0

Size: 1 Byte, Default Value: 0

Size: 1 Byte, Default Value: 0

1

2

Setting

0

2

0

1 - 250

Setting

1 - 255

Setting

1 - 255

0

Size: 1 Byte, Default Value: 50

Setting Description

Defines if and after which time the device shall turn off without any user interaction

	0	no auto off	
	1 - 65535	seconds	
Parameter 3: Switching behavior when receiving wireless OFF			

Setting Description 0 Switches off

Switches on, when receiving off command and current state is off Parameter 4: Button Mode This parameter defines if the local button shall control (switch) the load or it is only used to send out scene control commands to the central controller.

Description

Always off

Controls Load + Controls Scenes

Return to last switching state

Switches on

Ignores Off command

1	Scene Control Only				
Parameter 5: Status after Power Failure Defines the switching status after a power failure or unplugging Size: 1 Byte, Default Value: 1					
Setting	Description				

0 Parameter 21: LED Color on OFF state

Parameter 22: LED Color on ON state

Size: 1 Byte, Default Value: 2

Defines the behavior of the LED when the load is switched off

Defines the behavior of the LED when the load is switched on

Size: 1 Byte, Default Value: 0 Setting Description Off 0 Red 1

Description Setting Off

Disabled

Description

Disabled

* 0,01 A

Description

Description

114x59x92 mm mm

153 gr

ZM5101

4251295700397

0x0154.0x0003.0x000a

Never

sec.

Disabled

W

Volt

Red

Green

2	Green			
Parameter 23: Voltage Report Threshold Report the voltage when the voltage has changed by more then X * 1 V. When disabled the device will report every 10 minutes regardless of current voltage.				
Size: 1 Byte, Default Value: 1 Setting	Description			

Parameter 24: Current Reporting Threshold Report the current when the current has changed by more then X *0,01 A. When disabled the device will report every 10 minutes regardless of current change. Size: 1 Byte, Default Value: 10

Parameter 26: Soft Circuit Breaker Threshold

Parameter 27: Soft Circuit Breaker Recovery Time

be repowered manually or with wireless command.

Parameter 28: Soft Circuit Breaker Delay Time

remains over the threshold level for the defines time.

Parameter 25: Power Reporting Threshold Report the power when the power has changed by more then X Watt. When disabled the device will report every 10 minutes regardless of power consumption change.

	when the power draw exceeds the value set in this parameter for a time set in parameter 28 the soft ciruit breaker will disconnect the load. Size: 2 Byte, Default Value: 3600		
Setting	Description		
0	Disabled		
1 - 3600	W		

Once the soft circuit breaker tipps and the load is disconnected the load will be automatically reconneced after X seconds. When disabled the load must

Setting 1 - 255

Size: 1 Byte, Default Value: 0

Size: 1 Byte, Default Value: 10

Dimensions

Hardware Platform

Z-Wave Product Id

Supported Command Classes

Association Grp Info (s2 Unauth)

Device Reset Locally (s2 Unauth)

Central Scene (s2 Unauth)

Configuration (s2 Unauth)

Zwaveplus Info

Supervision

Weight

EAN

Setting Description 0 - 255 * 0,1 sec **Technical Data**

This delay time defines how fast the soft circuit breaker wil react when the threshold power is exceeded. The power is cut off only if the power draw

IP Class	IP IP44
Voltage	230V
Load	3500 W
Device Type	On/Off Power Switch
Generic Device Class	Binary Switch
Specific Device Class	Binary Power Switch
Firmware Version	03.01
Z-Wave Version	6.01
Certification ID	ZC10-18026015

 Basic Switch Binary (s2 Unauth); Class Sensor Multilevel (s2 Unauth) Meter (s2 Unauth)

 Powerlevel (s2 Unauth) Protection (s2 Unauth) Firmware Update Md (s2 Unauth)

Manufacturer Specific (s2 Unauth)

- Association (s2 Unauth) Version (s2 Unauth) Multi Channel Association (s2 Unauth)
- Security 2 Transport Service
- 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.

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