POPP

Wall Plug Switch Schuko for Outdoor Use (IP44)

Manual

Wall Plug Switch Schuko (IP44) – Manual

Quick Start

This is a Z-Wave actuator. Inclusion and Exclusion are confirmed by a triple click of the button. Fast blinking LED indicates the factory reset state.

Please refer to the chapters below for detailed information about all aspects of the products usage.

Product Description

This is a plug switch that can be placed between a wall outlet for Schuko plugs (plug type F) and electric devices, plugged in by cord. It can switch all loads up to 3500 W. The device is IP 44 rated and can therefore be used both in dry environments as well as humid environments and outdoor. Switching is controlled wirelessly using Z-Wave or locally applying a button. A multi color LED indicates the switching status and the assignment of the colors to the switching status can be defined by the user. The device will report any change of the switching status to a central gateway regardless the origin of the switch (local or wireless). A built in virtual power meter will report the power consumption of the load attached. However the user must configure the assumed constant power draw of the load. The local button can control the local load but can also be used to control other functions in a Z-Wave network. The device is certified and tested against all important European Safety Regulations and fully complies with the Z-Wave Plus standard. The device supports secure communication and the firmware can be upgraded over the air (OTA).

Before Installation

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

ATTENTION: Only authorized technicians under consideration of the country-specific installation guidelines/norms may do works with 230 Volt mains power. Prior to the assembly of the product, the voltage network has to be switched off and ensured against re-switching. The product is permitted only for proper use as specified in the user manual. Any kind of guarantee claim has to be forfeited if changes, modifications or painting are undertaken. The product must be checked for damages immediately after unpacking. In the case of damages, the product must not be operated in any case. If a danger-free operation of the equipment cannot be assured, the voltage supply has to be interrupted immediately and the equipment has to be protected from unintended operation.

Installation Guidelines

The plug can be plugged into every wall outlet for Plug-Type Schuko. It is IP44 rated and can therefore be used both in dry environments as well as humid environments and outdoor. Do not locate the device facing direct sunlight or dusty place. Plugs must not be stacked and operated.

Configuration Menu

Keeping the button pressed for 5 seconds will enter the configuration menu. A blinking blue LED indicates that this menu was entered. Short click of the button will change the configuration option and a long (min. 2 seconds) click confirms the selection.

The following options are supported:

• Blue: Confirm firmware update
• Red: Local

Behavior within the Z-Wave Network

On factory default the device does not belong to any Z-Wave network. The device needs to join an existing wireless network to communicate with the devices of this network. This process is called **Inclusion**. Devices can also leave a network. This process is called **Exclusion**. Both processes are initiated by the primary controller of the Z-Wave network. This controller will be turned into exclusion respective inclusion mode. Please refer to your primary controllers manual on how to turn your controller into inclusion or exclusion mode. Only if the primary controller is in inclusion or exclusion mode, this device can join or leave the network. Leaving the network – i.e. being excluded – sets the device back to factory default.

If the device already belongs to a network, follow the exclusion process before including it in your network. Otherwise inclusion of this device will fail. If the controller being included was a primary controller, it has to be reset first.

Inclusion and Exclusion are confirmed by a triple click on the button.

Operating the Device

Function Button

Status LED
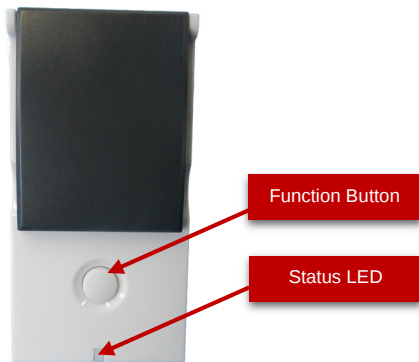
The device is able to switch electric loads up to 3500 W and can be switched wirelessly or using the local button.

Local Operation

The local button allows to switch the device. A short press on the button toggles the switch. If it is in ON state the button turns off and respective in OFF state the button turns on.

Automated Switch-Off Function (deactivated as default)

If activated the switch will turn off automatically after a defined time. This function is particularly useful if the switch is turned on using a motion detector of any other type of sensor. In this case it is possible to further define the reaction of the switch on certain signals sent from a sensor. This allows a very flexible application of the plug switch in the house.

Child Protection

The device can be turned into a child protection mode. In this mode all local operation is disabled. The child protection mode MUST be turned on wirelessly. However in protected by sequence mode it is possible to unlock the device for local operation with a triple click. The unlock state will last for 5 seconds.

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

Association groups

1	Send reports on switch state change (max. nodes in group: 5)
2	Controlled by buttons (max. nodes in group: 5)

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 200 it 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.

LED mode (Parameter number 1, Size 1)
Set LED indication mode

Value	Description
0	Disable
1	Show switch (default)
2	Operated by Indicator Command Class

Automatically Switch-Off after (Parameter number 2, Size 2)
If not zero, automatically switch device off after an user defined time.

Value	Description
0	Disable (default)
1-65535	sec

What to do on RF Off-Command (Parameter number 3, Size 1)
Defines how to interpret RF Off-Command. Can be used in conjunction with Auto Off function: **Ignore** – to switch on the light by motion detectors and switch it off after some amount of time: in case of multiple motion detectors each would try to switch the light off that would break logics; **Switch on** – to switch on the light on both ON and OFF paddle press on the remote and switch it off after some amount of time. Button OFF click will still work (if button operations are not disabled).

Value	Description
0	Switch off (default)
1	Ignore
2	Switch on
3	Switch on if load is off else switch off

Restore switch state after power cycle (Parameter number 5, Size 1)

Defines if the switch should restore switch state to the last prior to device power off (power cycle).

Value	Description
0	No, turn off
1	Yes (default)

Energy consumption (Parameter number 20, Size 2)

Specify the consumption of the load in watts, for the calculation of power consumption. Maximum load 1800 W.

Value	Description
0	Disabled (default)
1-3500	Watts

Off color (Parameter number 21, Size 1)

Color for OFF state

Value	Description
0	OFF (default)
1	Red
2	Green
3	Blue
4	Yellow

On color (Parameter number 22, Size 1)

Color for ON state

Value	Description
0	ON
1	Red
2	Green
3	Blue (default)
4	Yellow

Technical Data

Power Supply	230 V ~50-60 Hz
Attachable Loads	All loads up to 3500 W
Fuse	Type: T 1.25 A H (Load 1.25 Ampere, high shutdown capacity), D: 5 mm, L: 20 mm
IP Rating	IP 44
Frequency	868.42 MHz (SRD Band)
Wireless Range	Up to 100 m outside, on average up to 20 m inside buildings
Explorer Frame Support	Yes
SDK	4.55.00
Device Type	Slave with routing capabilities
Generic Device Class	Binary Switch
Specific Device Class	Binary Power Switch
Routing	Yes
FLiRS	No
Firmware Version	1.0

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 bringing 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.
- **Wake up Notification** is a special wireless message issued by a Z-Wave device to announce 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.

Support

Should you encounter any problem, please give us an opportunity to address it before returning this product. Most questions regarding Z-Wave wireless communication standard can be answered through the international community at www.z-wave.info.

If your question can't be answered there, please use www.popp.eu/support or contact us by email: info@popp.eu

Phone: +44 (0) 20 7419 5726
eMail: info@popp.eu
Web: www.popp.eu