User manual

Telldus Plug-in Switch Mini
Firmware version: v1.0
Type: TZWP-102
Item number: 313510

Telldus Z-Wave Plug-in Switch Mini, small size, clean design with energy metering and overcurrent protection. With its small size and clean design, it fits into your home interior design very well also it is possible to use two devices side by side in most electrical outlets. LED indicator can be turned off to not disturb in dark rooms.
Control lighting, chargers and other electronic equipment up to 1800 W (resistive load). With energy consumption measuring you don't only see the actual consumption, it can also help to find out if your connected device is ok or not or turn off the mobile charger when the mobile phone is fully charged for safe operation. The device acts as a repeater for the Z-Wave network.

Specification

Maximum load:	8A / 1800 W (resistive load)
Range:	Up to 30 meters indoor
Operating temperature:	-10 - +25°C
Power consumption:	<1W
Frequency:	868.42 MHz (EU)
Brand name:	**TELLDUS**

Terminology

Add	The process of including a node into the Z-Wave network.
Remove	The process of excluding a node from the Z-Wave network.

Installation

Insert the device into the electrical outlet where it's supposed to operate. Make sure that the product you are connecting does not draw more than 1800 Watts. Test that it's possible to control the device manually by pressing the button.

Add device

This device can be included and operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers and/or other applications. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

When the device is not added to any Z-Wave network, the LED will flash slowly.

If the device already is added to a Z-Wave network, follow the remove device process before adding it to your network. Otherwise adding this device will fail.

Automatically add device to network

When the device is inserted into an electrical outlet it's in automatic add mode (Network Wide Inclusion, NWI). This means that the device is added automatically when the Z-Wave controller enters add mode.

Manually add device to network

Start the add mode on the Z-Wave controller. Press the button on the device three times fast. The device will now be added into the Z-Wave network.

Remove device

Start the exclusion mode on the Z-Wave controller. Press the button on the device three times fast. The device will now be removed from the Z-Wave network.

Reset the device

Method 1

Remove the device from the Z-Wave network. This will reset the device to factory defaults.

Method 2:

Reset the device by:
Press and hold the button for 5 seconds.
The device will now reset to factory defaults. The LED will now flash slowly, indicating that it's no longer added in any Z-Wave network. This procedure is called 'Device Reset Locally' and it should only be used when the primary controller is missing or inoperable.

Operating the device

The plug-in switch can be operated by the button on the product or wireless through the Z-Wave network. A click on the button toggles the switch on or off.

LED-indicator

Please note that the configuration parameter 4, 'LED Indicator' might has been set to 'When operating plug, the LED is lit for 5 seconds', making the LED not light up all the time when the plug status is on.

Not in network	Flashing slowly
On	Steady blue (depending on configuration 4, 'LED Indicator')
Off	Off (depending on configuration 4, 'LED Indicator')
During interview	Flashing fast

Associations

Association group 1 - Lifeline - Plug status - Max 5 nodes

The plug will send it's status to the node(s) in this group whenever the status of the plug changes. Lifeline is normally used to send the plug status to the main controller / gateway.

Configurations

By changing configurations, you are able to change various settings in the device. This can be done from the Z-Wave gateway/controller, if supported.
These settings are available in this device:

Parameter no 1 - Overcurrent protection

If the current exceeds 16A for more than 5 sec, the load will be switched off.
Default value: 1 (Enable)
Size: 1 byte
Possible values: 0: Disabled, 1: Enabled

Parameter no 2 - Remember device status after power failure.

Define how the plug will react after the power supply is back on.
Default value: 0 (remember status)
Size: 1 byte
Possible values: 0: Remember status, 1: Always on 2: Always off.

Parameter no 3 - Send status in Lifeline when Load status change

Smart Plug can send notifications to associated devices in Lifeline when the status of the plug is changed
Default value: 1 (Send Basic Report)
Size: 1 byte
Possible values: 0: Disabled, 1: Send Basic Report, 2: Send Basic Report only when Load status is not changed by Z-Wave Command.

Parameter no 4 - LED Indicator

Configure LED mode
Default value: 0 (The LED follows the load status.)
Size: 1 byte
Possible values: 0: The LED follows the load status, 1: When operating plug, the LED is lit for 5 seconds

Parameter no 16 - Send report on change of power consumption (W)

This parameter will send a power report automatically if the power value
changes of x W (Watts) compared to the last report.
Default value: 50 W
Size: 2 byte
Possible values: 0: Disabled,
1-2500: Watts

Parameter no 17 - Send report on change of power consumption (%)

This parameter will send a power report automatically if the power value changes of x % compared to the last report.

Default value: 10 %

Size: 1 byte

Possible values: 0: Disabled, 1-100: %

Parameter no 101 - Power (W) report interval

This parameter defines the period of sending power reports

Default value: 600 seconds

Size: 4 byte

Possible values: 0: Disabled, 5-2678400 seconds

Parameter no 102 - Energy (kWh) report interval

This parameter defines the period of sending energy reports

Default value: 3600 seconds

Size: 4 byte

Possible values: 0: Disabled, 5-2678400 seconds

Parameter no 103 - Voltage (V) report interval

This parameter defines the period of sending voltage reports

Default value: 0 (Disabled)

Size: 4 byte

Possible values: 0: Disabled, 5-2678400 seconds

Parameter no 104 - Current (A) report interval

This parameter defines the period of sending current reports

Default value: 0 (Disabled)

Size: 4 byte

Possible values: 0: Disabled, 5-2678400 seconds

Node Information Frame

The 'Node Information Frame' 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.

Tripple click the button on the device to send a Node Information Frame.

Warning

For pluggable equipment, the socket-outlet shall be installed near the equipment and shall be easily accessible.

Imported by

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