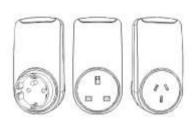


SSP 301 Z-Wave Switch and Repeater



User and Installation Instructions
BGX501-920-R02

1

SSP 301

The Secure SSP 301 is a switch and repeater that forms part of a Z-Wave Plus™ home automation network. The SSP 301 is a mainspowered device that will switch (power On/Off) a connected appliance either by the Z-Wave network or manually by pressing its integrated button.

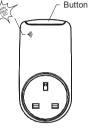


The SSP 301 acts as a repeater in a Z-Wave network by helping messages from other devices reach there destinations.

The SSP 301 is a fully compliant Z-Wave Plus™ device that will work with other manufacturer's Z-Wave devices.

Installation

Step 1: Unpack, and insert the SSP 301 into the wall socket. Ensure that the red-coloured Network Status LED is flashing (once per second).



Note: If the network status LED is not flashing check the following.

- Ensure that the wall socket switch is on.
- Press the top button, the relay status LED should switch ON and glow green.
- If the relay status LED does not glow then the device is not functioning.

- It is possible that the SSP 301 was part (joined) of another network previously; if so, exclude it before including it in this network. Refer to step-2 for the exclusion process.
- Avoid locations alongside or behind large metal surfaces that could interfere with the low power radio signals between the unit and the controller.

Step 2: Including and Excluding a Device

To include the SSP 301 onto a network, put the controller into inclusion mode. Now, press and hold the button on SSP 301 for 4 to 7 seconds then release. The network status LED will start flashing (twice per second) on successful start of

Note: Inclusion means add and exclusion means delete.

inclusion process.

Note: Refer to the controller's manual for controller relevant actions.

On successful inclusion the LED will turn off.

The total process can take up to 20 seconds (Refer to the "Technical specifications – Radio" section for details).

If the device fails to join the network it will go back to the factory default state and the Network status LED will start flashing once per second.

If there is an issue with RF communication, re-locate the device and repeat the commissioning process.

To exclude the SSP 301 from a network, put the controller into exclusion mode (refer to controller instructions) and follow the same sequence as per the commissioning process for include node. After successful exclusion the network status LED will start flashing once per second, and the device will reset to factory default.

If exclusion fails, the SSP 301 network status LED will turn off after about 5 seconds.

Note: Exclusion only works when the device is in direct range of the controller (no repeater allowed)

Associating a Device on a Z-Wave Network (follow step 3 to 5)

Note: Association process only works after the device has been included onto network

Step 3: Put the controller into Association Mode.**Note:** Some controllers can automatically associate. Always check with the manufacturer's manual.

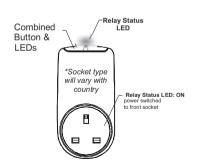
Step 4: Identify the device to the controller by sending the node information, to do this press and hold the SSP 301 button for more than 1 second, but less than 4 seconds, and then release.

Step 5: The controller should confirm association when the process is successfully completed this depends on your controller see the manufacturers documentation supplied with your controller for this information

Appliance Socket

Press the SSP 301 button (less than one second) to supply power to its socket. By default, the green LED will be On when the supply is On.

The socket type will vary with country. The figure shows the UK variant. Ensure that the appliance plug is firmly plugged into the appliance socket.



Button Actions

Button press time	Operation	LED status		
Less than 1 second	Toggles supply to socket	Toggles green LED		
1-4 seconds	Send NIF (used for Association)	NA		
4-7 seconds	Inclusion/exclusion	Red LED flashes twice per second		
7-11 Seconds	SSP 301 resets to factory default (Refer 'Device Locally Reset' command class)	Red LED flashes once per second		

Z-Wave Plus command classes

Z-Wave Plus Device Classes	Implemented Device Class
Generic	Binary Switch
Specific	On/OFF Power Switch
Basic	Routing Slave

Command Class	Commands Supported
Basic (V1)	Mapped on Binary switch Command class (V1)
Binary switch (V1)	Get
, ,	Set
	Report
Manufacturer Specific	Get
(V2)	Report
	Manufacturer ID = 0x0059 Product Type ID = 0x000E Product ID = 0x0001 (UK & EU) Product ID = 0x0002 (ANZ)

Version (V2)	Get				
	Report				
	Version Command Class Ger				
	Version Command Class				
	Report				
Association (V2)	Set				
	Get				
	Report				
	Remove)			
	Support	ed Groupings Get			
	Supported Groupings Report				
	Specific Group Get				
	Command				
	Specific Group Report Command				
Product supports one association group that have					
maximum of 4 node		J. T. P. T. W. W. T. W. W. T. W. W. T. W. W. T. W. W. T. W.			
Configuration (V1)	Set				
- ' '	Get				
	Report				
See Configuration Parameters for details					
Device Reset Loca	lly (V1)	Report			

Please use this procedure only when the primary controller is missing or otherwise inoperable,

Power cycle the device, press and hold the button for 7-11 seconds within the 60 seconds of power cycle to put the device in factory default. It reset all configuration and association to factory default. It also removes the device from Z-Wave network.

Association Group Info (V1)	Group Name Get		
	Group Name Report		
	Group Info get		
	Group Info Report		
	Group Command List Get		
	Group Command List Report		

Only one association group is supported and its name is "Lifeline"

Profile MSB -

ASSOCIATION_GROUP_INFO_REPORT_PROFILE_ GENERAL

Profile LSB -

ASSOCIATION_GROUP_INFO_REPORT_PROFILE_ GENERAL_NA

Supported Command class and command : Command Class -

COMMAND_CLASS_SWITCH_BINARY, Command - SWITCH_BINARY_REPORT

Z-Wave Plus Info (\	/2) Get			
	Report			
Role Type - ZWAVEPLUS_INFO_REPORT_ROLE_TYPE_SLAVE ALWAYS_ON				
Node Type - ZWAVEPLUS_INFO_REPORT_NODE_TYPE_ZWAVE PLUS_NODE				
Installer Icon- ICON_TYPE_GENERIC_ON_OFF_POWER_SWITCH				
User Icon- ICON_TYPE_GENERIC_ON_OFF_POWER_SWITCH				
Power Level (V1)	Power Level Set			
	Power Level Get			
	Power Level Report			
	Power Level Test Node Set			
	Power Level Test Node Get			

Note: For more information about Z-Wave command classes and their use refer to "SDS12652 Z-Wave command Class Specification version 3 or above and "SDS12657 Z-Wave Command Class Specification" version 2 or above.

Power Level Test Node Report

Configuration Parameters 1 to 3

N	Туре	Unit	Size Bytes	Max Value	Factory Default Value
1	Delta based switch Status reporting	NA	1	1	1
2	Time interval based Switch Status Reporting	Sec.	2	65520	0

Controllers may only allow configuring signed values. In order to set values in the range 32768 ...65520, the value sent in the application shall be equal to desired value minus 65520. For example, to set time interval to 36000 seconds it may be needed to set a value 36000–65536=–29536.

3	Relay & LED	NA	l 1	3	0
		, .			
	configuration				

Refer Table "Relay and green LED configuration" for details.

Common attributes:

- · Minimum Value is zero for above parameters.
- Zero configuration mean corresponding functionality is disabled.
- Value set more than maximum allowable limit will be rejected silently, and SSP 301 will retain it last configuration value.

Important: When any configuration is set, then it shall be recommended that user should read back and verify the correctness of set configuration value.

Relay and green LED configuration

Config Value	Relay Status After Power Cycle	LED Status	
0	Off	ON for Relay Close	
		OFF for Relay Open	
1	Retain last	ON for Relay Close	
	status over the power cycle	OFF for Relay Open	
2	Off	ON for Relay Open	
		OFF for Relay Close	
3	Retain last status over the power cycle	ON for Relay Open	
		OFF for Relay Close	

SSP 301 is shipped with zero default relay LED configuration

Visual Indication of a Communication Failure

The SSP 301 can indicate a communication failure state to the end user in the following situation: if the SSP 301 is configured with TIME-INTERVAL based data reporting (Configuration parameters #2) and at least one node is associated to it.

In that situation, if there is no Communication Acknowledge with any associated device in the network for more than one hour the device will indicate a communication fail status.

The communication fail status will be represented on the device by the continuous glowing of the network status LED. When the device establishes communication with any associated node in the network it will come out of the communication fail state.

Technical specifications

	tr	:а

Purpose of control: Electrical control

230V±10% AC, 50Hz Supply:

Current rating (load): Resistive Inductive

IIK. 13 A 3 A

16 A FU. 3 A ANZ: 10 A 3 A

Control type: Micro-disconnection

Control action: Type 1B Software class: Class A

Burden: <1W in standby

Mechanical

Dimensions (WxDxH): UK: 60 x 61 x 119mm

EU: 60 x 95 x 119mm

ANZ: 60 x 69 x 119mm

Product weight with

single unit packing: UK: 250 ± 30 g

retardant

EU: $340 \pm 30 \text{ g}$

ANZ: 240 ± 30 a

Case material: Thermoplastic, flame

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damp cloth - do not use any aggressive cleaning agents. If cleaning agents

are necessary, check compatibility before use.

Clean only with a clean

Mounting: UK: Type G

EU: "Schuko" Type E &

Type F

ANZ: Type I

Ball Pressure Test

After Care:

Temperature: 75°C

Environmental

Impulse voltage rating: Cat II 2500V Storage temperature: -20°C to 55°C

Operating

temperature: 0°C to 40°C

Environmental humidity

range: 0%RH to 95%RH

Atmospheric range: 980hPa to 1035hPa

Pollution degree: Degree 2

Enclosure protection: IP30

Radio

RF frequency -

Europe & UK: 868.42MHz AN7. 921.42MHz

Class:

RF range: 100m line of sight in open air 3

Inclusion: If the Z-Wave controller does not respond within 2-seconds then the

> SSP 301 will try with NWI (Network Wide Inclusion). The

total process can take up to 20

seconds

This is a Z-Wave certified product and can be used with Z-Wave controllers that support its

functionality. Please refer to the documentation provided by the gateway or controller manufacturer. See the Z-Wave alliance website www.z-

wavealliance.org for certified controllers.

Compliance



EN 60730-1 R&TTE directive BS 1363-3 (for UK) IEC 60884-1 (for EU) ETSI EN 300 220-2, EN 301 489 part 1 & 3 AS/NZS 3122 and RCM ACMA (for ANZ)

SECURE

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