Nice

Push-Control

Universal wireless button

Nice

1 WARNINGS AND GENERAL PRECAUTIONS

- **CAUTION! – This manual contains important instructions and warnings for personal safety.** Carefully read all parts of this manual. If in doubt, suspend installation immediately and contact Nice Technical Assistance.
- **CAUTION! – Important instructions: keep this manual in a safe place to enable future product maintenance and disposal procedures.**
- **CAUTION! – Any use other than that specified herein or in environmental conditions other than those stated in this manual is to be considered improper and is strictly forbidden!**
- The product's packaging materials must be disposed of in full compliance with local regulations.
- Never apply modifications to any part of the device. Operations other than those specified may only cause malfunctions. The manufacturer declines all liability for damage caused by makeshift modifications to the product.
- Do not expose this product to moisture, water or other liquids.
- This product is designed for indoor use only. Do not use outside!
- This product is not a toy. Keep away from children and animals!
- If the battery is leaking and the contained material is ingested, rinse mouth and surrounding area with clear water. Seek medical attention right away.

2 PRODUCT DESCRIPTION

Push-Control is a compact, battery-powered, Z-Wave Plus™ compatible device. It allows you to control devices through the Z-Wave network and run various scenes defined in Yubii smart home system.

Different actions may be triggered with one to five clicks or by holding the button down. In panic mode, each press of the button results in triggering the alarm defined in the Z-Wave controller.

Due to its small design and wireless communication, Push-Control can be conveniently mounted on any surface and in any position or location at home, e.g. beside the bed or under the desk.

Main features
- Compatible with any Z-Wave™ or Z-Wave Plus™ Controller
- Supports Z-Wave network Security Mode with AES-128 encryption
- Completely wireless with battery power and Z-Wave communication
- May be installed anywhere in your home
- Extremely easy installation - simply add and put on desired surface
- Available in three distinctive colors: white, black, and red

Push-Control is a fully compatible Z-Wave Plus™ device.

This device may be used with all devices certified with the Z-Wave Plus certificate and should be compatible with such devices produced by other manufacturers. All non-battery operated devices within the network will act as repeaters to increase reliability of the network. The device is a Security Enabled Z-Wave Plus product and a Security Enabled Z-Wave Controller must be used in order to fully utilize the product.

3 BASIC ACTIVATION

1. Press and turn the button counter-clockwise to open the casing.
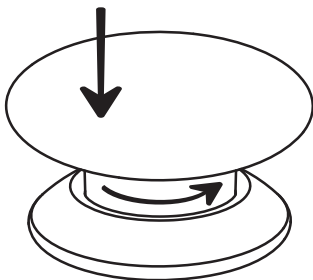
2. Remove the paper strip underneath the battery.
3. Press and turn the button clockwise to close the casing.
4. Place the device within the direct range of your Z-Wave controller.
5. Set the main controller in (security/non-security) add mode (see the controller's manual).
6. Click the button 6 times at least.
7. Wait for the device to be added into the system, successful adding will be confirmed by the controller.
8. Install the device in desired location using the attached self-adhesive pad.
9. Click the button 4 times to wake it up.

4   ADDING THE DEVICE

- Adding in security mode must be performed up to 2 meters from the controller.
- In case of problems with adding the device, please reset the device and repeat the adding procedure.

Adding (Inclusion) - Z-Wave device learning mode, allowing to add the device to existing Z-Wave network.

To add the device to the Z-Wave network **manually**:
1. Place Push-Control within the direct range of your Z-Wave controller.
2. Set the main controller in (Security/non-Security) add mode (see the controller's manual).
3. Click Push-Control at least six times.
4. Wait for the adding process to end.
5. Successful adding will be confirmed by the Z-Wave controller's message.

5   REMOVING THE DEVICE

Removing (Exclusion) - Z-Wave device learning mode, allowing to remove the device from existing Z-Wave network.

To remove the device from the Z-Wave network:
1. Place Push-Control within the direct range of your Z-Wave controller.
2. Set the main controller in remove mode (see the controller's manual).
3. Click Push-Control at least six times.
4. Wait for the removing process to end.
5. Successful removing will be confirmed by the Z-Wave controller's message.

Note. Removing the device from the Z-Wave network restores all the default parameters of the device.

6   OPERATING THE DEVICE

6.1 - Operating the button
Depending on how and how many times Push-Control is pressed, it will perform a different action.

Table A1 - Responses to button actions	
Action	**Response**
1 click	send action to associated devices (switch on/off by default) and/or trigger a scene
2 clicks	send action to associated devices (switch on maximum level by default) and/or trigger a scene
3 clicks	send action to associated devices (no action by default) and/or trigger a scene
4 clicks	wake the device up and/or trigger a scene
5 clicks	start reset procedure (press and hold for 5s to confirm) and/or trigger a scene
6 or more clicks	learning mode (adding/removing)
Hold	send action to associated devices (start level change up/down) and/or trigger a scene
Release	send action to associated devices (stop level change) and/or trigger a scene

Note. If notifications are enabled, each press of the button results in sending a command (Notification Type=HOME_SECURITY, Event=Intrusion, Unknown Location).

6.2 - Waking up the device
Push-Control needs to be woken up to receive information about the new configuration from the controller, like parameters and associations. Click Push-Control 4 times to wake it up.

6.3 - Scene ID

Every action with Push-Control is send to the main controller with Scene ID equal to 1. Controller recognizes type of action using the attribute assigned to it.

Table A2 - Scene ID attributes sent	
Action	**Attribute**
1 click	Key Pressed 1 time
2 clicks	Key Pressed 2 times
3 clicks	Key Pressed 3 times
4 clicks	Key Pressed 4 times
5 clicks	Key Pressed 5 times
Hold	Key Held Down
Release	Key Released

6.4 - Reset procedure of Push-Control

Reset procedure allows to restore the device back to its factory settings, which means all information about the Z-Wave controller and user configuration will be deleted. In order to reset the device:

1. Click Push-Control exactly five times.
2. Press and hold Push-Control for at least 5 seconds.

Note. Resetting the device is not the recommended way of removing the device from the Z-Wave network. Use reset procedure only if the primary controller is missing or inoperable. Certain device removal can be achieved by the procedure of removing.

7   ASSOCIATIONS

Association (linking devices) - direct control of other devices within the Z-Wave system network e.g. Dimmer, Relay Switch, Roller Shutter or scene (may be controlled only through a Z-Wave controller).

Association allows direct transfer of control commands between devices, is performed without participation of the main controller and requires associated device to be in direct range.

The device supports the generic Z-Wave command class "Basic" but will ignore any SET or GET commands and will not respond with a Basic Report.

Push-Control provides the association of four groups:

1st association group – "Lifeline" reports the device status and allows for assigning single device only (main controller by default).

2nd association group – "On/Off" is assigned to clicking the button and is used to turn on/off associated devices.

3rd association group – "Dimmer" is assigned to holding the button and is used to change level of associated devices.

4th association group – "Alarm" is assigned to clicking and/or holding the button (triggers are defined in parameter 30) and is used to send alarm frames to associated devices.

Push-Control in 2nd, 3rd and 4th group allows to control 5 regular or multichannel devices per an association group, with the exception of "Lifeline" that is reserved solely for the controller and hence only 1 node can be assigned.

It is not recommended to associate more than 10 devices in general, as the response time to control commands depends on the number of associated devices. In extreme cases, system response may be delayed.

The device allows to customize its operation to user's needs using configurable parameters.

The settings can be adjusted via Z-Wave controller to which the device is added. The way of adjusting them might differ depending on the controller.

Wake up interval

Push-Control will wake up at each defined time interval and always try to connect with the main controller. After successful communication attempt, the device will update configuration parameters, associations and settings and then will go into Z-Wave communication standby.

After failed communication attempt (eg. no Z-Wave range) the device will go into Z-Wave communication standby and retry to establish connection with the main controller after the next time interval.

Setting wake up interval to 0 disables sending Wake Up notification to the controller automatically. Wake up may be still performed manually by clicking Push-Control 4 times.

Available settings: 0 or 3600-64800 (in seconds, 1h - 18h)

Default setting: 0

Note. A longer time interval means less frequent communication and thus longer battery life.

Table A3 - Push-Control - Available parameters			
Parameter:	1. Scenes sent to the controller		
Description:	This parameter determines which actions result in sending scene IDs and attributes assigned to them. Values of parameter 1 may be combined, e.g. 1+2=3 means that scenes will be sent after pressing the button once or twice.		
Available settings:	1 - Key Pressed 1 time 2 - Key Pressed 2 times 4 - Key Pressed 3 times 8 - Key Pressed 4 times 16 - Key Pressed 5 times 32 - Key Held Down 64 - Key Released		
Default setting:	127 (all)	Parameter size:	1 [byte]
Parameter:	3. Associations in Z-Wave network Security Mode		
Description:	This parameter defines how commands are sent in specified association groups: as secure or non-secure. Parameter is active only in Z-Wave network Security Mode. It does not apply to 1st „Lifeline" group. Values of parameter 3 may be combined, e.g. 1+2=3 means that 2nd & 3rd group are sent as secure.		
Available settings:	1 - 2nd group sent as secure 2 - 3rd group sent as secure 4 - 4th group sent as secure		
Default setting:	7 (all)	Parameter size:	1 [byte]
Parameter:	10. Key Pressed 1 time – command sent to 2nd association group		
Description:	This parameter defines commands sent to devices associated in 2nd association group after a single click.		
Available settings:	0 - no action 1 - SWITCH ON 2 - SWITCH OFF 3 - SWITCH ON/OFF – alternately		
Default setting:	3	Parameter size:	1 [byte]
Parameter:	11. Key Pressed 1 time – value of SWITCH ON command sent to 2nd association group		
Description:	This parameter defines value of SWITCH ON command sent to devices in 2nd association group after a single click.		
Available settings:	1-255 - sent value		
Default setting:	255	Parameter size:	2 [bytes]
Parameter:	12. Key Pressed 2 times – command sent to 2nd association group		
Description:	This parameter defines commands sent to devices associated in 2nd association group after a double click.		
Available settings:	0 - no action 1 - SWITCH ON 2 - SWITCH OFF 3 - SWITCH ON/OFF – alternately		
Default setting:	1	Parameter size:	1 [byte]

Parameter:	13. Key Pressed 2 times – value of SWITCH ON command sent to 2nd association group
Description:	This parameter defines value of SWITCH ON command sent to devices in 2nd association group after a double click.
Available settings:	1-255 - sent value

Default setting:	99	Parameter size:	2 [bytes]

Parameter:	14. Key Pressed 3 times – command sent to 2nd association group
Description:	This parameter defines commands sent to devices associated in 2nd association group after a triple click.
Available settings:	0 - no action 1 - SWITCH ON 2 - SWITCH OFF 3 - SWITCH ON/OFF – alternately

Default setting:	0	Parameter size:	1 [byte]

Parameter:	15. Key Pressed 3 times – value of SWITCH ON command sent to 2nd association group
Description:	This parameter defines value of SWITCH ON command sent to devices in 2nd association group after a triple click.
Available settings:	1-255 - sent value

Default setting:	255	Parameter size:	2 [bytes]

Parameter:	20. Key Pressed 1 time – command sent to 3rd association group
Description:	This parameter defines commands sent to devices associated in 3rd association group after a single click.
Available settings:	0 - no action 1 - SWITCH ON 2 - SWITCH OFF 3 - SWITCH ON/OFF – alternately

Default setting:	3	Parameter size:	1 [byte]

Parameter:	21. Key Pressed 1 time – value of SWITCH ON command sent to 3rd association group
Description:	This parameter defines value of SWITCH ON command sent to devices in 3rd association group after a single click.
Available settings:	1-255 - sent value

Default setting:	255	Parameter size:	2 [bytes]

Parameter:	22. Key Pressed 2 times – command sent to 3rd association group
Description:	This parameter defines commands sent to devices associated in 3rd association group after a double click.
Available settings:	0 - no action 1 - SWITCH ON 2 - SWITCH OFF 3 - SWITCH ON/OFF – alternately

Default setting:	1	Parameter size:	1 [byte]

Parameter:	23. Key Pressed 2 times – value of SWITCH ON command sent to 3rd association group
Description:	This parameter defines value of SWITCH ON command sent to devices in 3rd association group after a double click.
Available settings:	1-255 - sent value

Default setting:	99	Parameter size:	2 [bytes]

Parameter:	24. Key Pressed 3 times – command sent to 3rd association group
Description:	This parameter defines commands sent to devices associated in 3rd association group after a triple click.
Available settings:	0 - no action 1 - SWITCH ON 2 - SWITCH OFF 3 - SWITCH ON/OFF – alternately

Default setting:	0	Parameter size:	1 [byte]

Parameter:	25. Key Pressed 3 times – value of SWITCH ON command sent to 3rd association group
Description:	This parameter defines value of SWITCH ON command sent to devices in 3rd association group after a triple click.
Available settings:	1-255 - sent value

Default setting:	255	Parameter size:	2 [bytes]

Parameter:	29. Key Held Down – command sent to 3rd association group		
Description:	This parameter defines commands sent to devices associated in 3rd association group after holding the button down.		
Available settings:	0 - no action 1 - START LEVEL CHANGE UP (brightening) 2 - START LEVEL CHANGE DOWN (dimming) 3 - START LEVEL CHANGE UP/DOWN (brightening/dimming) – alternately		
Default setting:	3	Parameter size:	1 [byte]
Parameter:	30. Alarm frame triggers		
Description:	Parameter determines which actions result in sending alarm frames to 4th association group. Values of parameter 30 may be combined, e.g. 1+2=3 means that alarm frames will be sent after pressing the button once or twice.		
Available settings:	1 - Key Pressed 1 time 2 - Key Pressed 2 times 4 - Key Pressed 3 times 8 - Key Pressed 4 times 16 - Key Pressed 5 times 32 - Key Held Down 64 - Key Released		
Default setting:	127 (all)	Parameter size:	1 [byte]

Notes:
- Setting parameters 11, 13, 15, 21, 23 and 25 to appropriate value will result in:
    - » 1-99 - forcing level of associated devices,
    - » 255 - setting associated devices to the last remembered state or turning them on.

9 TECHNICAL SPECIFICATIONS

The product Push-Control is produced by Nice S.p.A. (TV). Warnings: - All technical specifications stated in this section refer to an ambient temperature of 20 °C (± 5 °C) - Nice S.p.A. reserves the right to apply modifications to the product at any time when deemed necessary, while maintaining the same functionalities and intended use.

Push-Control	
Battery type	ER14250 ½AA 3.6V
Battery life	est. 2 years (with default settings and max. 10 pushes per day)
Operating temperature	0 - 40°C (32 - 104°F)
Dimensions (diameter x height)	46 x 34 mm (1.81" x 1.34")

- Radio frequency of individual device must be same as your Z-Wave controller. Check information on the box or consult your dealer if you are not sure.
- Using batteries other than specified may result in explosion. Dispose of properly, observing environmental protection rules.
- Battery life depends on frequency of usage, number of associations/scenes, Z-Wave routing and network load.

Radio transceiver	
Radio protocol	Z-Wave (500 series chip)
Frequency band	868.4 or 869.8 MHz EU 921.4 or 919.8 MHz ANZ
Transceiver range	up to 50m outdoors up to 40m indoors (depending on terrain and building structure)
Max. transmit power	1dBm

(*) The transceiver range is strongly influenced by other devices operating at the same frequency with continuous transmission, such as alarms and radio headphones which interfere with the control unit transceiver.

10 PRODUCT DISPOSAL

This product is an integral part of the automation and therefore must be disposed together with the latter.
As in installation, also at the end of product lifetime, the disassembly and scrapping operations must be performed by qualified personnel. This product is made of various types of material, some of which can be recycled while others must be scrapped. Seek information on the recycling and disposal systems envisaged by the local regulations in your area for this product category.
Caution! – some parts of the product may contain pollutant or hazardous substances which, if disposed of into the environment, may cause serious damage to the environment or physical health.
As indicated by the symbol alongside, disposal of this product in domestic waste is strictly prohibited. Separate the waste into categories for disposal, according to the methods envisaged by current legislation in your area, or return the product to the retailer when purchasing a new version.
Caution! – local legislation may envisage serious fines in the event of abusive disposal of this product.

11 DECLARATION OF CONFORMITY

Hereby, Nice S.p.A., declares that the radio equipment type Push-Control is in compliance with Directive 2014/53/EU.
The full text of the EU declaration of conformity is available at the following internet address: http://www.niceforyou.com/en/support

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