Push-Control

$C\mathcal{E}$

Universal wireless button

EN - Instructions and warnings for installation and use

v3.2

Nice

1 WARNINGS AND GENERAL PRECAUTIONS

- **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.
- **Using this product for different purposes than specified in this manual is strictly forbidden!**
- **All installation and connection operations must be performed exclusively by suitably qualified and skilled personnel with the unit disconnected from the mains power supply.**
- The product 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 can cause malfunctions. The manufacturer declines all liability for damage caused by makeshift modifications to the product.
- Never place the device near the sources of heat or expose to naked flames. These actions can damage the product and cause malfuntions.
- Don't use the product in damp or wet locations, near a bathtub, sink, shower, swimming pool, or anywhere else where water or moisture are present.
- Make sure children don't play with the product.
- This product is designed for indoor use only. Do not use outside!
- 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 enables you to control devices through the Z-Wave network and run various scenes defined in Nice Home Management System (HMS).

Different actions can 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 hub.

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.

2.1 - Main features

- Is compatible with any Z-Wave® or Z-Wave Plus® hub
- Is controlled by Yubii Home or any other Z-Wave application
- Supports Z-Wave network Security Mode with AES-128 encryption
- Is completely wireless with battery power
- Can be installed easily - simply add and put on desired surface
- Is available in three distinctive colors: white, black, and red

2.2 - Full compatibility with Z-Wave Plus® devices

This device can be used with all devices accredited with the Z-Wave® Plus certificate and is compatible with such devices produced by other manufacturers. All non-battery operated devices within the network 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® hub must be used to fully utilize the product.

3 TECHNICAL SPECIFICATIONS

Push-Control is produced by Nice S.p.A. (TV).

Note
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.

Table 1 - Push-Control - Hardware parameters	
Parameter	**Values / types**
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 protocol	Z-Wave (500 series chip)
Radio frequency band	• 868.4 or 869.8 MHz EU • 908.4 or 916.0 MHz US • 921.4 or 919.8 MHz ANZ
Max. transmitting power	1dBm
Range	• up to 50 m outdoors, • up to 40 m indoors Depending on the terrain and building structure. 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.

⚠ **Using batteries other than specified can result in explosion.**
   Dispose of properly, observing environmental protection rules.

Note
• Radio frequency of individual device needs to be the same as your Z-Wave hub. Check information on the box or consult your dealer if you aren't sure.
• Battery life depends on frequency of usage, number of associations/scenes, Z-Wave routing and network load.

4 BASIC ACTIVATION

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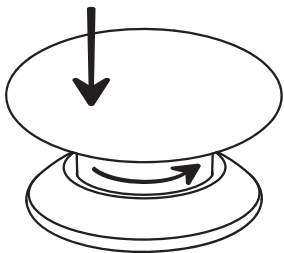
2. Remove the paper strip underneath the battery.
3. Press and turn the button clockwise to close the casing.
4. Place the device within the direct range of your Z-Wave hub.
5. Set the main hub in (security/non-security) add mode . For more information, see the hub manual.
6. Click the button six times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

5   ADDING DEVICE TO Z-WAVE NETWORK

- Adding in security mode must be performed up to 2 meters from the hub.
- 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 hub.
2. Set the main hub in (security/non-security) add mode. For more information, see the hub manual.
3. Click the button six times at least.
4. Wait for the adding process to end.
5. Successful adding is confirmed by the Z-Wave hub message.

6   REMOVING DEVICE FROM Z-WAVE NETWORK

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 hub.
2. Set the main hub in remove mode. For more information, see the hub manual.
3. Click Push-Control at least six times.
4. Wait for the removing process to end.
5. Successful removing is confirmed by the Z-Wave hub message.

Notes
Removing the device restores all the default parameters of the device.

7   OPERATING THE DEVICE

7.1 - Operating the button
Depending on how and how many times Push-Control is pressed, it performs different actions listed in the table below:

Table 2 - Push-Control - 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 5 s 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

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

7.2 - Waking up the device
Push-Control needs to be woken up to receive information from the hub, about the new configuration of parameters or associations. Click Push-Control four times to wake it up.

7.3 - Scene ID

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

Table 3 - Push-Control - 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

7.4 - Reset procedure of Push-Control

Reset procedure enables restoring the device back to its factory settings, which means all information about the Z-Wave hub and user configuration is deleted.

To reset the device:

1. Click Push-Control exactly five times.
2. Press and hold Push-Control for at least five 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 hub is missing or inoperable. Certain device removal can be achieved by the procedure of removing.

8 ASSOCIATIONS

Association (linking devices) - direct control of other devices, such as dimmers or roller shutters, within the Z-Wave system network. Association ensures direct transfer of control commands between devices, which is performed without participation of the main hub. The associated device needs to be in the direct range.

The device supports the generic Z-Wave command class "Basic" but ignores any SET or GET commands and responds with a Basic Report.

The device provides the association of four groups listed in the table below.

Table 4 - Push-Control - Association groups		
Association group	**Name**	**Description**
1st	Lifeline	Reports the device status and enables assigning a single device, the hub by default. Only one node can be assigned.
2nd	On/Off	Assigned to clicking the button and is used for turning on/off associated devices.
3rd	Dimmer	Assigned to to holding the button and is used to change level of associated devices
4th	Alarm	Assigned to clicking and/or holding the button (triggers are defined in parameter 30) and is used for sending alarm frames to associated devices.

Push-Control in the 2nd, 3rd and 4th group enables controlling five regular or multichannel devices per an association group, with the exception of "Lifeline" that is reserved solely for the hub and hence only one node can be assigned.

It isn't 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.

Push-Control enables customizing its operation to user's needs. The settings are available in the interface of the Z-Wave hub.

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

Wake up interval

Push-Control wakes up at each defined time interval and always try to connect with the main hub. After a successful communication attempt, the device updates configuration parameters, associations and settings before going into Z-Wave communication standby.

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

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

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

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

Default setting: 0

Parameters available for Push-Control are listed in the table below:

Table 5 - Push-Control - Advanced parameters				
Parameter	Description	Available setting	Default setting	Length
1. Scenes sent to the controller	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 is sent after pressing the button once or twice.	**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	**127** (all)	1B
3. Associations in Z-Wave network Security Mode	Defines how commands are sent in specified association groups: as secure or non-secure. Parameter is active only in the Z-Wave network Security Mode. It doesn't apply to the 1st **Lifeline** group. Values of parameter 3 can be combined, e.g. 1+2=3 means that the 2nd & 3rd group are sent as secure.	**1 -** 2nd group sent as secure **2 -** 3rd group sent as secure **4 -** 4th group sent as secure	**7** (all)	1B
10. Key Pressed 1 time – command sent to 2nd association group	Defines commands sent to devices associated in the 2nd association group after a single click	**0 -** no action **1 -** SWITCH ON **2 -** SWITCH OFF **3** - SWITCH ON/OFF – alternately	**3**	1B
11. Key Pressed 1 time – value of SWITCH ON command sent to 2nd association group	Defines value of SWITCH ON command sent to devices in the 2nd association group after a single click	**1 - 255** - sent value	**255**	2B
12. Key Pressed 2 times – command sent to 2nd association group	Defines commands sent to devices associated in the 2nd association group after a double click	**0 -** no action **1 -** SWITCH ON **2 -** SWITCH OFF **3** - SWITCH ON/OFF – alternately	**1**	1B
13. Key Pressed 2 times – value of SWITCH ON command sent to 2nd association group	Defines value of SWITCH ON command sent to devices in the 2nd association group after a double click	**1 - 255** - sent value	**99**	2B
14. Key Pressed 3 times – command sent to 2nd association group	Defines commands sent to devices associated in the 2nd association group after a triple click	**0 -** no action **1 -** SWITCH ON **2 -** SWITCH OFF **3** - SWITCH ON/OFF – alternately	**0**	1B
15. Key Pressed 3 times – value of SWITCH ON command sent to 2nd association group	Defines value of SWITCH ON command sent to devices in the 2nd association group after a triple click	**1 - 255** - sent value	**255**	2B
20. Key Pressed 1 time – command sent to 3rd association group	Defines commands sent to devices associated in the 3rd association group after a single click	**0 -** no action **1 -** SWITCH ON **2 -** SWITCH OFF **3** - SWITCH ON/OFF – alternately	**3**	1B

Table 5 - Dimmer-Control - Advanced parameters				
Parameter	Description	Available setting	Default setting	Length
21. Key Pressed 1 time – value of SWITCH ON command sent to 3rd association group	Defines value of SWITCH ON command sent to devices in the 3rd association group after a single click	**1 - 255** - sent value	**255**	2B
22. Key Pressed 2 times – command sent to 3rd association group	Defines commands sent to devices associated in 3rd association group after a double click.	**0 -** no action **1 -** SWITCH ON **2 -** SWITCH OFF **3** - SWITCH ON/OFF – alternately	**1**	1B
23. Key Pressed 2 times – value of SWITCH ON command sent to 3rd association group	Defines value of SWITCH ON command sent to devices in the 3rd association group after a double click	**1 - 255** - sent value	**99**	1B
24. Key Pressed 3 times – command sent to 3rd association group	Defines commands sent to devices associated in the 3rd association group after a triple click.	**0 -** no action **1 -** SWITCH ON **2 -** SWITCH OFF **3** - SWITCH ON/OFF – alternately	**0**	1B
25. Key Pressed 3 times – value of SWITCH ON command sent to 3rd association group	Defines value of SWITCH ON command sent to devices in the 3rd association group after a triple click.	**1 - 255** - sent value	**255**	2B
29. Key Held Down – command sent to 3rd association group	Defines commands sent to devices associated in the 3rd association group after holding the button down	**0 -** no action **1 -** SWITCH ON **2 -** SWITCH OFF **3** - SWITCH ON/OFF – alternately	**3**	1B
30. Alarm frame triggers	Determines which actions result in sending alarm frames to the 4th association group. Values of parameter 30 can be combined, e.g. 1+2=3 means that alarm frames are sent after pressing the button once or twice.	**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	**127** (all)	1B

Note

Setting parameters 11, 13, 15, 21, 23 and 25 to appropriate value results in:

• 1-99 - forcing level of associated devices.
• 255 - setting associated devices to the last remembered state or turning them on.

10 REGULATIONS

This device complies with Part 15 of the FCC Rules
Operation is subject to the following two conditions:
1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
   • Reorient or relocate the receiving antenna.
   • Increase the separation between the equipment and receiver.
   • Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
   • Consult the dealer or an experienced radio/TV technician for help.

Note

Changes and modifications not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Federal Communications Commission's rules.

Industry Canada (IC) Compliance Notice

This device complies with Industry Canada license-exempt RSSs. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme aux normes d'exemption de licence RSS d'Industry Canada. Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférence et (2) cet appareil doit accepter toute interférence, notamment les interférences qui peuvent affecter son fonctionnement.

11 PRODUCT DISPOSAL

This product is an integral part of the automation and therefore must be disposed together with the latter. At the end of the 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.
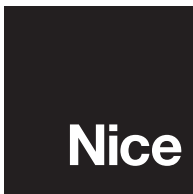
As indicated by the symbol alongside, disposal of this product in domestic waste is strictly prohibited. Separate the waste into categories for disposal, according to the methods envisaged by current legislation in your area, or return the product to the retailer when purchasing a new version.

⚠ **CAUTION!**
• 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.
• Local legislation may envisage serious fines in the event of abusive disposal of this product.

12 DECLARATION OF CONFORMITY

Hereby, Nice S.p.A., declares that the radio equipment type Push-Control (FGPB-101-1-US, FGPB-102-1-US, FGPB-101-3-US) is in compliance with Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available at: http://www.niceforyou.com/en/support.