#9: Battery

CAUTION

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

NOTE

Battery life depends on frequency of usage, number of associations/scenes, Z-Wave routing and network load.

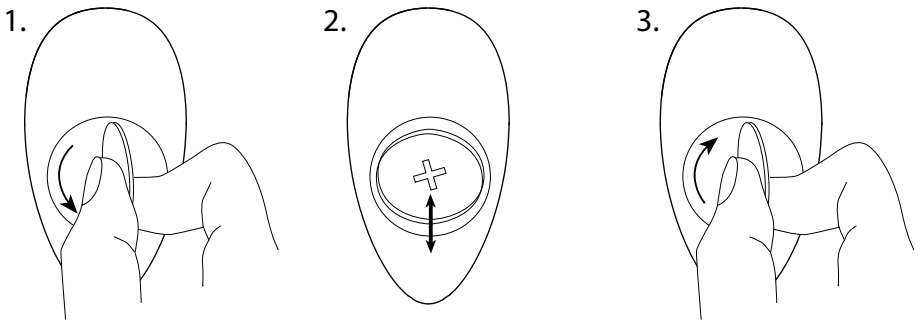
KeyFob can be powered with CR2450 (included) battery. Estimated battery life with device added once, default settings, direct range and maximum 5 pushes per day is 2 years.

Checking battery level:

KeyFob automatically warns about low battery with 3 yellow blinks, when battery level is below value selected in parameter 3.

1. Press O and — simultaneously.
2. Press △ or ✕ until LED glows cyan.
3. Press +.
4. LED indicates battery level with a smoothly transitioning colours, where:
   - Green - 100%
   - Yellow - 50%
   - Red - 1%
5. Wait 2 second or press any button to exit.

Replacing the battery:



1. Using a coin, open the battery cover by turning it counter-clockwise.
2. Replace the battery.
3. Using a coin, close the battery cover by turning it clockwise.

#10: 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).

The device provides the association of thirteen groups:

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

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

3rd association group – "Square - Multilevel" is assigned to clicking and holding the □ button and is used to turn on/off and change level of associated devices.

4th association group – "Circle - On/Off" is assigned to clicking the ○ button and is used to turn on/off associated devices.

5th association group – "Circle - Multilevel" is assigned to clicking and holding the ○ button and is used to turn on/off and change level of associated devices.

6th association group – "Cross - On/Off" is assigned to clicking the ✕ button and is used to turn on/off associated devices.

7th association group – "Cross - Multilevel" is assigned to clicking and holding the ✕ button and is used to turn on/off and change level of associated devices.

8th association group – "Triangle - On/Off" is assigned to clicking the △ button and is used to turn on/off associated devices.

9th association group – "Triangle - Multilevel" is assigned to clicking and holding the △ button and is used to turn on/off and change level of associated devices.

10th association group – "Minus - On/Off" is assigned to clicking the — button and is used to turn on/off associated devices.

11th association group – "Minus - Multilevel" is assigned to clicking and holding the — button and is used to turn on/off and change level of associated devices.

12th association group – "Plus - On/Off" is assigned to clicking the + button and is used to turn on/off associated devices.

13th association group – "Plus - Multilevel" is assigned to clicking and holding the + button and is used to turn on/off and change level of associated devices.

NOTE

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

NOTE

States of the association groups are affected only by buttons. Changing state of associated device by other means will not update remembered state of association group.

NOTE

2, 4, 6, 8, 10 and 12 association groups use BASIC CC, but device does not repond to GET commands.

The KeyFob in 2nd to 13th group allows to control 5 regular or multichannel devices per an association group. “LifeLine” group 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.

To add an association (using the Home Center controller):

1. Go to the device options by clicking the icon:
2. Select the „Advanced” tab.
3. Click the “Setting Association” button.
4. Specify to which group and what devices are to be associated.
5. Save the changes.
6. Press ○ and + simultaneously to wake up the device.

Paired buttons association

After pairing buttons, horizontal pairs of buttons (□ and ○, ✕ and △, – and +) work as one button and send associations to left buttons groups only.

Left buttons (○, △, +) turn on associated devices and right buttons (□, ✕, –) turn them off.

In multilevel association groups (3, 7, 11) left buttons increase level while holding and right buttons decrease it.

To pair buttons:

1. Change settings of parameters:
   - □ and ○ – set parameter 6 to value 1
   - ✕ and △ – set parameter 7 to value 1
   - – and + – set parameter 8 to value 1
2. Press ○ and + simultaneously to wake up the device.

#11: Advanced parameters

The KeyFob allows to customize its operation to user's needs. The settings are available in the FIBARO interface as simple options that may be chosen by selecting the appropriate box.

In order to configure the KeyFob (using the Home Center controller):

1. Go to the device options by clicking the icon:
2. Select the „Advanced" tab.
3. Modify values of chosen parameters.
4. Save the changes.
5. Press **O** and **+** simultaneously to wake up the device.

NOTE

Entering invalid value of parameter will result in response with Application Rejected frame and not setting the value.

1. Lock Mode - unlocking sequence

This parameter allows to activate Lock Mode and set up unlocking sequence. Device will lock after time set in parameter 2 or after pressing and holding selected button. See "Lock Mode" on page 9 for more information.

Available settings:	**0** - Lock Mode **disabled** **9-28086** - unlocking sequence		
Default setting:	**0**	Parameter size:	**2** [bytes]

2. Lock Mode - time to lock and locking button

This parameter allows to set time that must elapse from the last press of the button to lock the device and locking button.

Setting locking button will deactivate associations and scenes for pressing and holding the selected button.

This parameter is irrelevant if parameter 1 is set to 0 (Lock Mode disable).

See "Lock Mode" on page 9 for more information.

Available settings:	**0** - Lock Mode **disabled** **5-1791**- calculated value		
Default setting:	**60** (60s)	Parameter size:	**2** [bytes]

3. First scene sequence

This parameter allows to set up sequence that activates scene with ID 7. See "Sequences" on page 10 for more information.

Available settings:	**0** - 1st sequence **disabled** **9-28086** - value of sequence		
Default setting:	**0**	Parameter size:	**2** [bytes]

4. Second scene sequence

This parameter allows to set up sequence that activates scene with ID 8. See "Sequences" on page 10 for more information.

Available settings:	**0** - 1st sequence **disabled** **9-28086** - value of sequence		
Default setting:	**0**	Parameter size:	**2** [bytes]

5. Third scene sequence

This parameter allows to set up sequence that activates scene with ID 9. See "Sequences" on page 10 for more information.

Available settings:	**0** - 3rd sequence **disabled** **9-28086** - value of sequence		
Default setting:	**0**	Parameter size:	**2** [bytes]

6. Fourth scene sequence

This parameter allows to set up sequence that activates scene with ID 10. See "Sequences" on page 10 for more information.

Available settings:	**0** - 4th sequence **disabled** **9-28086** - value of sequence		
Default setting:	**0**	Parameter size:	**2** [bytes]

7. Fifth scene sequence

This parameter allows to set up sequence that activates scene with ID 11. See "Sequences" on page 10 for more information.

Available settings:	**0** - 5th sequence **disabled** **9-28086** - value of sequence		
Default setting:	**0**	Parameter size:	**2** [bytes]

8. Sixth scene sequence

This parameter allows to set up sequence that activates scene with ID 12. See "Sequences" on page 10 for more information.

Available settings:	**0** - 6th sequence **disabled** **9-28086** - value of sequence		
Default setting:	**0**	Parameter size:	**2** [bytes]

9. Sequences - timeout

This parameter allows to set time that must elapse from the last press of the button to check if the sequence is valid.

Available settings:	**5-30** (0.5-3s, 0.1s step) - time to lock		
Default setting:	**10** (1s)	Parameter size:	**1** [byte]

10. Single button associations - operating mode

This parameter allows to choose operating mode for single button associations.

Available settings:	**0** - single press switches state to opposite **1** - single press switches state to opposite, double press sets to maximum level **2** - single press turns on, double press turns off		
Default setting:	**0** (switch)	Parameter size:	**1** [byte]

11. Value sent to □ association group

12. Value sent to ○ association group

13. Value sent to ✕ association group

14. Value sent to △ association group

15. Value sent to — association group

16. Value sent to + association group

This parameter allows to set value sent to devices in association group. It will result in turning multilevel devices on with set or last level. Value is irrelevant for simple on/off devices.

Available settings:	**1-99** or **255**		
Default setting:	**255**	Parameter size:	**2** [bytes]

17. Paired buttons association for □ and ○

This parameter allows to activate paired buttons association mode for □ and ○ buttons. Paired buttons are dependent and association are sent only to □ groups. ○ turns devices on and increases value, □ turns them off and decreases value.

Available settings:	**0** - paired buttons association **inactive** **1** - paired buttons association **active**		
Default setting:	**0** (inactive)	Parameter size:	**1** [byte]

18. Paired buttons association for ✕ and △

This parameter allows to activate paired buttons association mode for ✕ and △ buttons. Paired buttons are dependent and association are sent only to ✕ groups. △ turns devices on and increases value, ✕ turns them off and decreases value.

Available settings:	**0** - paired buttons association **inactive** **1** - paired buttons association **active**		
Default setting:	**0** (inactive)	Parameter size:	**1** [byte]

i NOTE

Setting parameters 11-16 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

19. Paired buttons association for — and +

This parameter allows to activate paired buttons association mode for — and + buttons. Paired buttons are dependent and association are sent only to — groups. + turns devices on and increases value, — turns them off and decreases value.

Available settings:	**0** - paired buttons association **inactive** **1** - paired buttons association **active**		
Default setting:	**0** (inactive)	Parameter size:	**1** [byte]

NOTE

Parameters 21 to 26 values may be combined, e.g. 1+2=3 means that pressing button once or twice will result in sending assigned scene ID.

21. Scene activation for □ button

22. Scene activation for ○ button

23. Scene activation for ✕ button

24. Scene activation for △ button

25. Scene activation for — button

26. Scene activation for + button

This parameter determines which actions result in sending assigned scene IDs and attributes to the controller.

Available settings:	**1** - Key Pressed 1 time **2** - Key Pressed 2 times **4** - Key Pressed 3 times **8** - Key Held Down & Released		
Default setting:	**9** (1x & hold)	Parameter size:	**1** [byte]

NOTE

Parameter 29 values may be combined, e.g. 1+2=3 means that 2nd & 3rd group are sent as secure.

29. Associations in Z-Wave network security mode

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" association group.

Available settings:	**1** - 2nd group sent as secure **2** - 3rd group sent as secure **4** - 4th group sent as secure **8** - 5th group sent as secure **16** - 6th group sent as secure **32** - 7th group sent as secure **64** - 8th group sent as secure **128** - 9th group sent as secure **256** - 10th group sent as secure **512** - 11th group sent as secure **1024** - 12th group sent as secure **2048** - 13th group sent as secure		
Default setting:	**4095**	Parameter size:	**2** [bytes]

#12: Specifications

Power supply:	CR2450 3.0V battery (included)
Battery life:	est. 2 years (default settings, max. 5 pushes per day and direct range)
Operating temperature:	10 - 40°C
EU directives compliance:	RoHS 2011/65/EU R&TTE 1999/5/EC
Radio protocol:	Z-Wave (500 series chip)
Radio frequency:	868.4 or 869.8 MHz EU; 908.4, 908.42 or 916.0 MHz US; 921.4 or 919.8 MHz ANZ; 869.0 MHz RU;
Range:	up to 50m outdoors up to 40m indoors (Depending on terrain and building structure)
Dimensions:	70 x 38 x 15 mm

CAUTION

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

NOTE

Battery life depends on frequency of usage, number of associations/scenes, Z-Wave routing and network load.

NOTE

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.

#13: 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.

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.

Legal Notices

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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.

DGT Warning Statement

Article 12

Without permission, any company, firm or user shall not alter the frequency, increase the power, or change the characteristics and functions of the original design of the certified lower power frequency electric machinery.

Article 14

The application of low power frequency electric machineries shall not affect the navigation safety nor interfere a legal communication, if an interference is found, the service will be suspended until improvement is made and the interference no longer exists.

第十二條
經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。
第十四條

低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。
前項合法通信，指依電信法規定作業之無線電通信。
低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

Declaration of conformity

Hereby, Fibar Group S.A. declares that FIBARO KeyFob is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.