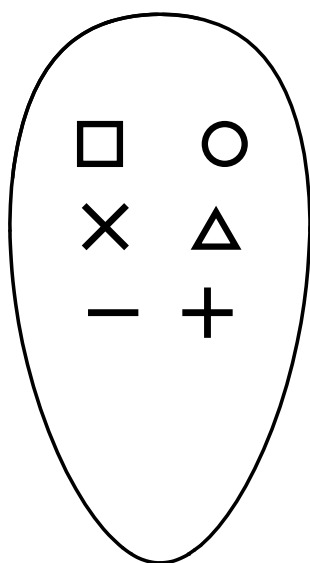




FIBARO KEYFOB FGKF-601

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v1.0

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Important safety information

Read this manual before attempting to install the device!

Failure to observe recommendations included in this manual may be dangerous or cause a violation of the law. The manufacturer, Fibar Group S.A. will not be held responsible for any loss or damage resulting from not following the instructions of operating manual.

General information about the FIBARO System

FIBARO is a wireless smart home automation system, based on the Z-Wave protocol. All of available devices can be controlled through a computer (PC or Mac), smartphone or tablet. Z-Wave devices are not only receivers, but can also repeat the signal, increasing the Z-Wave network's range. It gives advantage over traditional wireless systems that require direct link between transmitter and receiver, as a result the construction of the building could affect network's range negatively.

Every Z-Wave network has its unique identification number (home ID). Multiple independent networks can exist in the building without interfering. Transmission security of FIBARO System is comparable to wired systems.

Z-Wave technology is the leading solution in smart home automation. There is a wide range of Z-Wave devices that are mutually compatible, independently of manufacturer. It gives the system the ability to evolve and expand over time. For more information visit: www.fibaro.com.

#1: Description and features

FIBARO KeyFob is a Z-Wave Plus compatible, battery-powered, compact remote control.

Six buttons allow you to control other devices through the Z-Wave network and run various scenes defined in FIBARO System.

Configure actions for one, two, three clicks, holding the button and button sequences to suit all your needs.

Built-in locking system will ensure that unauthorized person will not take control of your home.

Main features of FIBARO KeyFob:

- Compatible with any Z-Wave or Z-Wave+ Controller.
- Supports protected mode (Z-Wave network security mode) with AES-128 encryption.
- Battery powered.
- Completely wireless.
- Pocket size.
- Equipped with 6 easily recognizable buttons.
- 30 different actions, single/double/triple click, hold for each button and sequences.
- Easy to operate menu.
- Actions are confirmed by the built-in LED diode.



FIBARO KeyFob is a fully compatible Z-Wave PLUS device.

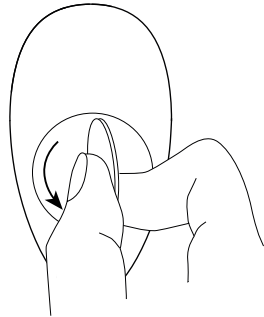
NOTE

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.

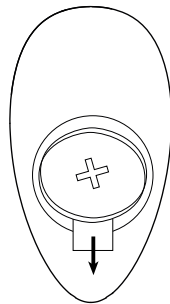
NOTE

FIBARO KeyFob 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.

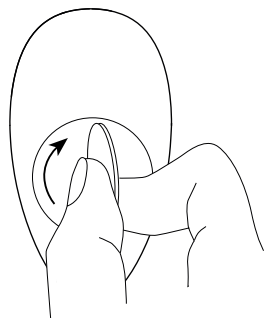
#2: Basic activation



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



2. Remove the paper strip underneath the battery.



3. Using a coin, close the battery cover by turning it clockwise.

4. Locate the device nearby the main Z-Wave controller.
5. Set the main Z-Wave controller in (security/non-security) add mode (see the controller's manual).
6. Press any button three times.
7. LED will pulse white during the adding process.
8. Wait for the device to be added into the system.
9. Successful adding will be confirmed by the Z-Wave controller's message and green LED colour.

#3: Adding/removing the device

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

To add the device:

1. Set the main Z-Wave controller in (security/non-security) add mode (see the controller's manual).
2. Power the device (insert the battery).
3. Press any button three times.
4. LED will pulse white during the adding process.
5. Wait for the adding process to end.
6. Successful adding will be confirmed by the Z-Wave controller's message and green LED colour.

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

To remove the device:

1. Set the main Z-Wave controller in remove mode (see the controller's manual).
2. Press **○** and **—** simultaneously.
3. Press **▲** or **✕** until LED glows green.
4. Press **+**.
5. Wait for the removing process to end.
6. Successful removing will be confirmed by the Z-Wave controller's message.

NOTE

Adding in security mode must be performed up to 2 meters from the controller.

NOTE

In case the device is not added, please reset the device and repeat the adding procedure.

NOTE

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

#4: Operating the device

NOTE

* Resetting the device is not available in Lock Mode.

Menu allows to perform Z-Wave network actions. In order to use the menu:

1. Press **○** and **—** simultaneously.
2. Press **▲** or **✕** until LED indicates desired menu position with colour:
 - **White** - wake up the device
 - **Green** - learning mode (adding/removing)
 - **Cyan** - check battery level
 - **Yellow** - the device reset*
3. Press **+** to confirm selection, press **—** to exit the menu.
4. LED will pulse twice with same colour as selected menu position to confirm completing action.

Waking up the device:

The KeyFob needs to be woken up to receive information about the new configuration from the Z-Wave controller, like parameters and associations. Use 1st menu position (white) or press **○** and **+** simultaneously to wake up the device.

NOTE

Resetting the device is not the recommended way of removing the device from the Z-Wave network. Use the reset procedure only if the primary controller is missing or inoperable. Certain device removal can be achieved by the procedure of removing described in "Adding/removing the device" on page 5.

Resetting the device to factory defaults:

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. There are two ways of resetting the device:

Resetting the device **using the menu:**

1. Press **○** and **—** simultaneously.
2. Press **▲** or **✕** until LED glows yellow.
3. Press **+**.

Emergency resetting the device **on start-up:**

1. Remove the battery.
2. Hold **○** and **+**, while inserting the battery.

Successful resetting will be confirmed by smoothly brightening and dimming of the yellow LED colour.

#5: Visual indications

Visual indications:

The KeyFob is equipped with a LED diode, signalling pushing the buttons, sequences, menu position and status of the device.

Indications for scenes and associations:

After pressing one of the buttons or using sequence, KeyFob indicates status of action with the LED diode.

What you see	What it means
Green blink	Receiving command confirmed by the controller and associated devices
Yellow blink every 1s	Sending commands in progress
Red blink	Receiving at least one command was not confirmed by the controller or associated devices

Indications for sequences:

What you see	What it means
Blue pulse	Entering sequence
3 blue pulses	Sequence valid
3 red pulses	Sequence not valid

Device status indications:

What you see	What it means	What to do
Learning mode		
Red blink	Device not added	Press any button three times to start adding
Fast white pulsing	Device in adding mode	Wait for adding process to end
Green blink	Device added	–
Lock Mode		
Red blink	Device locked	Unlock using sequence
3 red pulses	Wrong sequence	Try unlocking again
Red to green transition	Device unlocked	Press buttons to activate scenes/associations
Green to red transition	Device locked using button hold	–
Battery		
3 magenta pulses	Low battery	Replace the battery
Configuration		
2 white pulses	Device woken up	–

#6: Lock Mode

KeyFob can be protected with a sequence of 2 to 5 button clicks. When unlocking sequence is set, the device will lock itself after:

- being inactive for time set in parameter 2 (60 seconds by default),
- pressing and holding selected button (if set in parameter 2).

To enable Lock Mode:

- set sequence in parameter 1,
- set time or locking button in parameter 2 (60 seconds by default),
- set PROTECTION CC to Local Protection by Sequence (done automatically by Home Center controller).

Lock Mode will be disabled when:

- parameter 1 and/or parameter 2 is set to 0,
- PPROTECTION CC is set to Unprotected.

When device is locked:

- pushing buttons will not activate any actions,
- menu is available, but without option of resetting the device.

Setting the unlocking sequence and locking time-out using Home Center configuration interface:

1. Go to the device options by clicking the icon: 
2. Select the „Advanced” tab.
3. Click the “Configure” button in "Lock Mode" section.
4. Select sequence of 2 to 5 buttons, click "Next".
5. Select time to lock and locking button, click "Next".
6. Press **○** and **+** simultaneously to wake up the device.
7. Wait for the device to configure.

Setting the unlocking sequence using advanced parameter:

1. Calculate value of parameter using table and formula:

Button	□	○	×	△	—	+
Value	1	2	3	4	5	6

Value of parameter = Value of first button +
 + 8 * Value of second button + 64 * Value of third button +
 + 512 * Value of third button + 4096 * Value of third button

2. Change the value of parameter 1 [2 bytes] to calculated value.
3. Press ○ and + simultaneously to wake up the device.
4. Wait for the device to configure.

Setting time to lock and locking button using advanced parameter:

1. Calculate value of parameter using table and formula:

Button	□	○	×	△	—	+
Value	1	2	3	4	5	6

Time to lock should be 0 or 5-255 (seconds)

Value of parameter = Time to lock in seconds +
 + 256 * Value of locking button

2. Change the value of parameter 2 [2 bytes] to calculated value.
3. Press ○ and + simultaneously to wake up the device.
4. Wait for the device to configure.

#7: Sequences

Sequences:

User can create sequences of two to five button to expand number of possible actions. Every sequence sends corresponding Scene ID to the Z-Wave controller with attribute "Key pressed 1 time" (see "Scene activation" on page 11).

Sequences are saved in advanced parameters (no. 3-8).

Activating sequence introduces delay in single, double and tripple press actions for first button in the sequence.

Rules of creating sequences:

- Maximum of six sequences can be created.
- Each sequence must be unique.
- Sequence can consist of two to five button pushes.
- Sequence can contain multiple presses of the same button.

Setting a new sequence using Home Center configuration interface:

1. Go to the device options by clicking the icon: 
2. Clicking "Add a new sequence".
3. Select sequence of 2 to 5 buttons.
4. Select reaction to sequence.
5. Save configuration.
6. Press **○** and **+** simultaneously to wake up the device.
7. Wait for the device to configure.

Setting a new sequence using advanced parameter:

1. Calculate value of parameter using table and formula:

Button	□	○	×	△	—	+
Value	1	2	3	4	5	6

Value of parameter = Value of first button +
 + 8 * Value of second button + 64 * Value of third button +
 + 512 * Value of third button + 4096 * Value of third button

2. Change the value of corresponding parameter [2 bytes] (parameters 3 to 8 for slots 1 to 6).
3. Press **○** and **+** simultaneously to wake up the device.
4. Wait for the device to configure.

#8: Scene activation

Activating scenes:

The KeyFob can activate scenes in the Z-Wave controller by sending scene ID and attribute of a specific action.

By default scenes are activated after single clicking or pressing and holding any of the buttons and sequences. Other actions can be activated in parameters 21-26.

Activating a double click will introduce delay to a single click reaction and activating a triple click will introduce delay to a double click reaction.

Scene IDs of buttons:

Button	□	○	×	△	—	+
Scene ID	1	2	3	4	5	6

Attributes of actions for buttons:

Action	Attribute
Button pressed once	Key Pressed 1 time
Button pressed twice	Key Pressed 2 times
Button pressed thrice	Key Pressed 3 times
Button held	Key Held Down
Button released	Key Released

Scene IDs of sequences:

Sequence number	1	2	3	4	5	6
Scene ID	7	8	9	10	11	12

Scenes for sequences are always send with attribute "Key pressed 1 time".