



Fibaro Group

FIBARO Button (all Colors)

SKU: FIBFGPB-101-1



Quickstart

This is a **secure Wall Controller** for **Europe**. To run this device please insert fresh **1 * ER 14250 1/2 AA 3,6V** batteries. Please make sure the internal battery is fully charged.

1. Place the Button 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 the Button at least six times.
4. Wait for the adding process to end.
5. Successful adding will be confirmed by the Z-Wave controller message.

Important safety information

Please read this manual carefully. Failure to follow the recommendations in this manual may be dangerous or may violate the law. The manufacturer, importer, distributor and seller shall not be liable for any loss or damage resulting from failure to comply with the instructions in this manual or any other material. Use this equipment only for its intended purpose. Follow the disposal instructions. Do not dispose of electronic equipment or batteries in a fire or near open heat sources.

What is Z-Wave?

Z-Wave is the international wireless protocol for communication in the Smart Home. This device is suited for use in the region mentioned in the Quickstart section.

Z-Wave ensures a reliable communication by reconfirming every message (**two-way communication**) and every mains powered node can act as a repeater for other nodes (**meshed network**) in case the receiver is not in direct wireless range of the transmitter.

This device and every other certified Z-Wave device can be **used together with any other certified Z-Wave device regardless of brand and origin** as long as both are suited for the same frequency range.

If a device supports **secure communication** it will communicate with other devices secure as long as this device provides the same or a higher level of security. Otherwise it will automatically turn into a lower level of security to maintain backward compatibility.

For more information about Z-Wave technology, devices, white papers etc. please refer to www.z-wave.info.



Product Description

FIBARO Button 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 FIBARO System.

Different actions may be triggered with one to five clicks or by holding the button down. In Panic Button mode, each press of the button results in triggering the Fibaro Alarm.

With its small design and wireless communication, the FIBARO Button can be conveniently mounted on any surface and in any position or location at home, e.g. beside the bed or under the desk.

Prepare for Installation / Reset

Please read the user manual before installing the product.

In order to include (add) a Z-Wave device to a network it **must be in factory default state**. Please make sure to reset the device into factory default. You can do this by performing an Exclusion operation as described below in the manual. Every Z-Wave controller is able to perform this operation however it is recommended to use the primary controller of the previous network to make sure the very device is excluded properly from this network.

Reset to factory default

This device also allows to be reset without any involvement of a Z-Wave controller. This procedure should only be used when the primary controller is inoperable.

1. Click the Button exactly five times.
2. Press and hold the Button for at least 5 seconds.

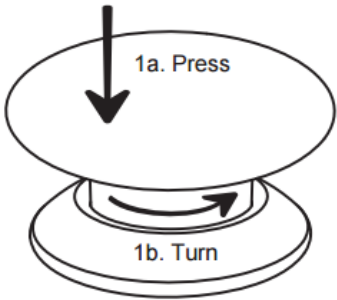
Safety Warning for Batteries

The product contains batteries. Please remove the batteries when the device is not used. Do not mix batteries of different charging level or different brands.

Installation

1. Press and turn the button counter-clockwise to open the casing.

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



FIBARO Button - Opening

Inclusion/Exclusion

On factory default the device does not belong to any Z-Wave network. The device needs to be **added to an existing wireless network** to communicate with the devices of this network. This process is called **Inclusion**.

Devices can also be removed from a network. This process is called **Exclusion**. Both processes are initiated by the primary controller of the Z-Wave network. This controller is turned into exclusion respective inclusion mode. Inclusion and Exclusion is then performed doing a special manual action right on the device.

Inclusion

Click the Button at least six times.

Exclusion

Click the Button at least six times.

Product Usage

Operating the Button

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

Scene activation

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

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 Hold Down
Release	Key Released

This device is battery operated and turned into deep sleep state most of the time to save battery life time. Communication with the device is limited. In order to communicate with the device, a static controller **C** is needed in the network. This controller will maintain a mailbox for the battery operated devices and store commands that can not be received during deep sleep state. Without such a controller, communication may become impossible and/or the battery life time is significantly decreased.

This device will wakeup regularly and announce the wakeup state by sending out a so called Wakeup Notification. The controller can then empty the mailbox. Therefore, the device needs to be configured with the desired wakeup interval and the node ID of the controller. If the device was included by a static controller this controller will usually perform all necessary configurations. The wakeup interval is a tradeoff between maximal battery life time and the desired responses of the device. To wakeup the device please perform the following action: Click the Button 4 times to wake it up

Quick trouble shooting

Here are a few hints for network installation if things dont work as expected.

1. Make sure a device is in factory reset state before including. In doubt exclude before include.
2. If inclusion still fails, check if both devices use the same frequency.
3. Remove all dead devices from associations. Otherwise you will see severe delays.
4. Never use sleeping battery devices without a central controller.
5. Dont poll FLIRS devices.
6. Make sure to have enough mains powered device to benefit from the meshing

Association - one device controls an other device

Z-Wave devices control other Z-Wave devices. The relationship between one device controlling another device is called association. In order to control a different device, the controlling device needs to maintain a list of devices that will receive controlling commands. These lists are called association groups and they are always related to certain events (e.g. button pressed, sensor triggers, ...). In case the event happens all devices stored in the respective association group will receive the same wireless command wireless command, typically a 'Basic Set' Command.

Association Groups:

Group Number	Maximum Nodes	Description
1	1	Lifeline reports the device status and allows for assigning single device only (main controller by default).
2	5	On/Off is assigned to clicking the button and is used to turn on/off associated devices.
3	5	Dimmer is assigned to holding the button and is used to change level of associated devices.
4	5	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.

Configuration Parameters

Z-Wave products are supposed to work out of the box after inclusion, however certain configuration can adapt the function better to user needs or unlock further enhanced features.

IMPORTANT: Controllers may only allow configuring signed values. In order to set values in the range 128 ... 255 the value sent in the application shall be the desired value minus 256. For example: To set a parameter to 200 it may be needed to set a value of 200 minus 256 = minus 56. In case of a two byte value the same logic applies: Values greater than 32768 may needed to be given as negative values too.

Parameter 1: Scenes sent to the controller

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

NOTE: 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.

Size: 1 Byte, Default Value: 127

Setting	Description
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 Hold Down
64	Key Released

Parameter 3: Associations in Z-Wave network security mode

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.

NOTE: Values of parameter 3 may be combined, e.g. 1+2=3 means that 2nd & 3rd group are sent as secure.

Size: 1 Byte, Default Value: 7

Setting	Description
1	2nd group sent as secure
2	3rd group sent as secure
4	4th group sent as secure

Parameter 10: Key Pressed 1 time - command sent to 2nd association group*This parameter defines commands sent to devices associated in 2nd association group after a single click.*

Size: 1 Byte, Default Value: 3

Setting	Description
0	no action
1	SWITCH ON
2	SWITCH OFF
3	SWITCH ON/OFF - alternately

Parameter 11: Key Pressed 1 time - value of SWITCH ON command sent to 2nd association group*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**This parameter defines value of SWITCH ON command sent to devices in 2nd association group after a single click. 1-255- sent value*

Size: 2 Byte, Default Value: 255

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

Parameter 12: Key Pressed 2 times - command sent to 2nd association group*This parameter defines commands sent to devices associated in 2nd association group after a double click.*

Size: 1 Byte, Default Value: 1

Setting	Description
0	no action
1	SWITCH ON
2	SWITCH OFF
3	SWITCH ON/OFF - alternately

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

Size: 2 Byte, Default Value: 99

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

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

Size: 1 Byte, Default Value: 0

Setting	Description
0	no action
1	SWITCH ON
2	SWITCH OFF
3	SWITCH ON/OFF - alternately

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

Size: 2 Byte, Default Value: 255

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

Parameter 20: Key Pressed 1 time - command sent to 3rd association group*This parameter defines commands sent to devices associated in 3rd association group after a single click.*

Size: 1 Byte, Default Value: 3

Setting	Description
0	no action
1	SWITCH ON
2	SWITCH OFF
3	SWITCH ON/OFF - alternately

Parameter 21: Key Pressed 1 time - value of SWITCH ON command sent to 3rd association group

This parameter defines value of SWITCH ON command sent to devices in 3rd association group after a single click.

Size: 2 Byte, Default Value: 255

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

Parameter 22: Key Pressed 2 times - command sent to 3rd association group

This parameter 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

Size: 1 Byte, Default Value: 1

Setting	Description
0	no action
1	SWITCH ON
2	SWITCH OFF
3	SWITCH ON/OFF - alternately

Parameter 23: Key Pressed 2 times - value of SWITCH ON command sent to 3rd association group

This parameter defines value of SWITCH ON command sent to devices in 3rd association group after a double click.

Size: 2 Byte, Default Value: 99

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

Parameter 24: Key Pressed 3 times - command sent to 3rd association group

This parameter defines commands sent to devices associated in 3rd association group after a triple click.

Size: 1 Byte, Default Value: 0

Setting	Description
0	no action
1	SWITCH ON
2	SWITCH OFF
3	SWITCH ON/OFF - alternately

Parameter 25: Key Pressed 3 times - value of SWITCH ON command sent to 3rd association group

This parameter defines value of SWITCH ON command sent to devices in 3rd association group after a triple click.

Size: 2 Byte, Default Value: 255

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

Parameter 29: Key Held Down - command sent to 3rd association group

This parameter defines commands sent to devices associated in 3rd association group after holding the button down.

Size: 1 Byte, Default Value: 3

Setting	Description
0	no action
1	START LEVEL CHANGE UP (brightening)
2	START LEVEL CHANGE DOWN (dimming)
3	START LEVEL CHANGE UP/DOWN (brightening/dimming) - alternately

Parameter 30: Alarm frame triggers

Parameter determines which actions result in sending alarm frames to 4th association group.

NOTE: 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.

Size: 1 Byte, Default Value: 127

Setting	Description
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

Technical Data

Dimensions	46x34 mm
Weight	31 gr
Hardware Platform	ZM5101
EAN	5902020528968
Battery Type	1 * ER 14250 1/2 AA 3,6V
Device Type	Wall Controller
Network Operation	Portable Slave
Z-Wave Version	6.51.09
Certification ID	ZC10-16105252
Z-Wave Product Id	0x010F.0x0F01.0x1000
Frequency	Europe - 868,4 Mhz
Maximum transmission power	5 mW

Supported Command Classes

- Association Grp Info
- Association V2
- Battery
- Central Scene V3
- Configuration
- Crc 16 Encap
- Device Reset Locally
- Firmware Update Md V3
- Manufacturer Specific V2
- Multi Channel Association V2
- Notification V5
- Powerlevel
- Security
- Version V2
- Wake Up V2
- Zwaveplus Info V2

Controlled Command Classes

- Sensor Alarm
- Basic
- Switch Multilevel V3

Explanation of Z-Wave specific terms

- **Controller** — is a Z-Wave device with capabilities to manage the network. Controllers are typically Gateways, Remote Controls or battery operated wall controllers.
- **Slave** — is a Z-Wave device without capabilities to manage the network. Slaves can be sensors, actuators and even remote controls.
- **Primary Controller** — is the central organizer of the network. It must be a controller. There can be only one primary controller in a Z-Wave network.
- **Inclusion** — is the process of adding new Z-Wave devices into a network.
- **Exclusion** — is the process of removing Z-Wave devices from the network.
- **Association** — is a control relationship between a controlling device and a controlled device.
- **Wakeup Notification** — is a special wireless message issued by a Z-Wave device to announce that it is able to communicate.
- **Node Information Frame** — is a special wireless message issued by a Z-Wave device to announce its capabilities and functions.

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