

OPERATING MANUAL





FIBARO WALLI DIMMER

FGWDEU-111

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1: 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.

DANGER OF ELECTROCUTION!

The device is designed to operate in electrical home installation. Faulty connection or use may result in fire or electric shock.



• All works on the device may be performed only by a qualified (In the sector of the sector o

Even when the device is turned off, voltage may be present at its terminals. Any maintenance introducing changes into the configuration of connections or the load must be always performed with disabled fuse.



To avoid risk of electrical shock, do not operate the device with Δ wet or moist hands.

Do not modify!



Do not modify this device in any way not included in this manual.

Other devices

The manufacturer, Fibar Group S.A. will not be held responsi- Δ ble for any damage or loss of warranty privileges for other connected devices if the connection is not compliant with their manuals.

This product is intended for indoor use only in dry locations.

Do not use in damp or wet locations, near a bathtub, sink, shower, swimming pool, or anywhere else where water or moisture are present.

Not a toy!



This product is not a toy. Keep away from children and Δ animals!

2: Description and features

2.1: Description

FIBARO Walli Dimmer is a smart wall dimmer designed to control light source via Z-Wave network.

It measures active power and energy consumed by the controlled load.

You can install it with provided cover plate and switch button or other compatible.

2.2: Main features

- Can be used for dimming:
 - » 110/230V operated conventional incandescent and halogen,
 - » 12V operated ELV halogen lamps and dimmable LED bulbs (with electronic transformers),
 - » 12V operated MLV halogen lamps (with ferromagnetic transformers),
 - » dimmable LED bulbs,
 - » dimmable compact fluorescent CFL tube lamps,
 - » supported dimmable light sources (power factor > 0.5) with minimal power of 5VA using FIBARO Bypass 2.
- Can be used for switching:
 - » compact fluorescent CFL tube lamps with electronic ballast,
 - » fluorescent tube lamps with electronic ballast,
 - » LED bulbs (power factor > 0.7),
 - » supported light sources (power factor > 0.5) with minimal power of 5VA using FIBARO Bypass 2.
- Uses different operating modes:
 - » "Trailing edge" for resistive loads (R)
 - » "Trailing edge" for resistive-capacitive loads (RC)
 - » "Leading edge" for resistive-inductive loads (RL)
- Can be used with FIBARO Walli covers or other compatible (see "Parts compatibility" on page 42):
 - » GIRA System 55 (Standard 55, E2, Event, Event Clear),
 - » Legrand Céliane,
 - » Schneider Odace.
- Active power and energy consumption metering.

- Can be installed in two and three-wired configuration.
- Calibrates automatically to the connected light source.
- Supports Z-Wave network Security Modes: S0 with AES-128 encryption and S2 Authenticated with PRNG-based encryption.
- Works as a Z-Wave signal repeater (all non-battery operated devices within the network will act as repeaters to increase reliability of the network).
- May be used with all devices certified with the Z-Wave Plus certificate and should be compatible with such devices produced by other manufacturers.

The device is a Security Enabled Z-Wave Plus product i and a Security Enabled Z-Wave Controller must be used in order to fully utilize the product.

3: FIBARO Bypass 2 (FGB-002)

FIBARO Bypass 2 (FGB-002) is a device designed to work with FIBARO Dimmer 2 (FGD-212) and Walli Dimmer (FGWDEU-111). It should be used in case of connecting LED bulbs or energy saving compact fluorescent lamps. FIBARO Bypass 2 prevents flickering of the LED lights and glowing of the turned off compact fluorescent lamps.

In the case of 2-wire connection, FIBARO Bypass 2 allows to reduce minimum power of load required by the Dimmer for correct operation. FGB-002 provides powering of the Dimmer in case of controlling the low loads of minimum power down to 5VA (for $\cos \varphi > 0.5$).



In the case of 2-wire connection do not connect load i below minimal power without FGB-002.



Bypass 2 works only in trailing edge mode. Do not coni hect the Bypass 2 to the Dimmer operating in leading edge mode.

Bypass 2 is sensitive to the frequent changes of the i state of Dimmer (alternate switching on and off). Significant changes in brightness should not be performed more than once per second.

Power supply	110-230V-	~ 50/60 Hz
Compatible load types		Resistive loads
		Conventional incandescent and halogen light sources
		Fluorescent tube lamp (com- pact / with electronic ballast), electronic transformer, LED
	Û	Resistive-inductive loads
	Ŷ	Ferromagnetic transformers
Rated load current	0.22A-1.52 cent and h	2A – resistive loads (incandes- nalogen)
	0.22A-1.3/ (fluoresce former, LE	A – resistive-capacitive loads nt tube lamp, electronic trans- ED)
	0.22A-1.3/ (ferromag	A – resistive-inductive loads netic transformers)
	0.022A-0.2 cent tube	22A – with Bypass 2: fluores- lamp or LED
Active element	semicond	uctor electronic switch ε
Recommended external overcurrent protection	10A type I 13A type I	3 circuit breaker (EU) 3 circuit breaker (Sweden)
For installation in boxes	Ø = 60mm	n, depth ≥ 40mm
Recommended wires	cross-sect stripped 1	ion area between 1.5-4.0mm², 1.5-13mm of insulation
Operating temperature	0–35°C	
Ambient humidity	10–95% R	H without condensation
Radio protocol	Z-Wave (5	00 series chip)
Radio frequency band	868.0-868	8.6MHz; 869.7–870.0MHz
Max. transmitting power	+6dBm	
Range	up to 50m up to 40m (dependin structure)	n outdoors n indoors ng on terrain and building
Dimensions (Height x Width x Depth)	86 x 86 x 5	51 mm
Compliance with EU directives	RoHS 201 RED 2014	1/65/EU /53/EU

i 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.

5: Installation

5.1: Before installation

Connecting the device in a manner inconsistent with this manual may cause risk to health, life or material damage.

- **Do not** power the device before fully assembling it in the mounting box,
- Connect only in accordance with one of the diagrams,
- Install only in flush mounting boxes compliant with a relevant national safety standards and with depth no less than 40mm,
- **Do not** connect devices which are not compliant with the specification or relevant safety standards,
- Do not connect heating devices,
- Do not connect SELV or PELV circuits,
- **Do not** connect loads below minimal power in 2-wire connection without Bypass 2.
- **Do not** connect different types of light sources simultaneously
- **Do not** connect the power supply without a load
- **Do not** connect more than one transformer
- When using magnetic transformer load it with 50% of its nominal power at minimum
- Minimize number of electronic transformers in a circuit, noises caused by them in electrical grids may affect device operation.
- Make sure you have all required parts when installing with covers other than FIBARO (see "Parts compatibility" on page 42).

Device parts:



1 – switch button, 2 – cover plate, 3 – unit (device), 4 – mounting frame

Notes for diagrams:



N – terminal for neutral wire

S – support terminal of 2-wire connection

L – terminal for live wire

IQ – output terminal for controlled load

G – groove used to measure wire length

5.2: Preparing for installation

Prepare wires by removing 11.5-13mm of insulation from their ends. You can use groove on the side of the unit to measure the length.

When installing with FIBARO or GIRA covers:

- 1. Pull out the switch button.
- 2. Take off the cover plate.

When installing with Legrand or Schneider covers:

- 1. Pull out the original switch button.
- 2. Take off the original cover plate.
- 3. Dismount the original mounting frame.
- 4. Snap the new mounting frame*.

* Additional mounting frames are sold separately.

5.3: Electrical connection

- 1. Switch off the mains voltage (disable the fuse).
- 2. Connect with one of the diagrams below:



Diagram 1: Example connection for 3-wire installation



Diagram 3: Example connection for 2-wire installation



Diagram 2: Example connection for 3-wire installation with Bypass 2



Diagram 4: Example connection for 2-wire installation with Bypass 2

- 3. Verify correctness of connection.
- 4. Tighten the terminal screws using PH1 screwdriver.

5.4: Assembling the device

i When installing the device in the mounting box orient the device with terminal screws going up or to the left (for horizontal button position) to ensure button order.

i When installing with covers other than FIBARO, we recommend disabling the LED by changing parameter 13 to 0.

When installing with FIBARO covers:



- 1. Insert the device with mounting frame into the mounting box and secure with mounting claws and screws.
- 2. Snap the cover plate to the device.
- 3. Snap the switch button to the device.

When installing with GIRA covers:



- 1. Insert the device with mounting frame into the mounting box and secure with mounting claws and screws.
- 2. Snap the new cover plate to the device.
- 3. Snap the switch button adapter* to the device.
- 4. Snap the new switch button to the device.

When installing with Legrand covers:



- 1. Insert the device with mounting frame* into the mounting box and secure with mounting claws and screws.
- 2. Snap the switch button adapter* to the device.
- 3. Snap the new inner cover plate to the device.
- 4. Snap the new outer cover plate to the device.
- 5. Snap the new switch button to the device.

When installing with Schneider covers:



- 1. Insert the device with mounting frame* into the mounting box and secure with mounting claws and screws.
- 2. Snap the new cover plate to the device.
- 3. Snap the new switch button to the device.

* Switch button adapter and additional mounting frames are sold separately.

5.5: Activating the device

- 1. If the device fully assembled, switch on the mains voltage.
- 2. LED ring light means the device is powered.
- 3. Wait for the calibration process to end. Light may blink, the device will be switched off once the process is completed.
- 4. The device can be added to the Z-Wave network.

6: Adding to Z-Wave network

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

6.1: Adding manually

To add the device to the Z-Wave network **manually**:

- 1. Set the main controller in (Security/non-Security Mode) add mode (see the controller's manual).
- 2. Quickly, three times click one of the buttons.
- 3. If you are adding in Security S2 Authenticated, input the underlined part of the DSK (label on the bottom of the box).
- 4. LED will start blinking yellow, wait for the adding process to end.
- 5. Adding result will be confirmed by the Z-Wave controller's message and the LED frame:
 - Green successful (non-secure, S0, S2 non-authenticated),
 - Magenta successful (Security S2 Authenticated),
 - Red not successful.

6.2: Adding using SmartStart

SmartStart enabled products can be added into a Z-Wave network by scanning the Z-Wave QR Code present on the product with a controller providing SmartStart inclusion. SmartStart product will be added automatically within 10 minutes of being switched on in the network range.

To add the device to the Z-Wave network **using SmartStart**:

- 1. To use SmartStart your controller needs to support Security S2 (see the controller's manual).
- 2. Enter the full DSK string code to your controller. If your controller is capable of QR scanning, scan the QR code placed on the label on the bottom of the box.
- 3. Power the device.
- 4. Wait for the calibration process to end. Light may blink, the device will be switched off once the process is completed.
- 5. Wait for the adding process to start (up to few minutes), which is signalled with yellow LED blinking.
- 6. Adding result will be confirmed by the Z-Wave controller's message and the LED frame:
 - Green successful (non-secure, S0, S2 non-authenticated),
 - Magenta successful (Security S2 Authenticated),
 - Red not successful.

i In case of problems with adding the device, please reset the device and repeat the adding procedure.

7: Removing from Z-Wave network

Removing (Exclusion) - Z-Wave device learning mode, allowing to remove the device from existing Z-Wave network. Removing also results in resetting the device to factory defaults.

To **remove** the device from the Z-Wave network:

- 1. Set the main controller into remove mode (see the controller's manual).
- 2. Quickly, three times click one of the buttons.
- 3. LED will start blinking yellow, wait for the removing process to end.
- 4. Successful removing will be confirmed by the Z-Wave controller's message and red LED colour.
- 5. The device will start calibrating the load.



Removing device won't be possible if the central scene ¹ notifications have been activated by parameter 40 and 41.

8: Calibration

The device is equipped with an algorithm of smart light source detection. It automatically selects suitable control mode (leading edge for inductive loads, trailing edge for capacitive or resistive loads) and adjusts maximum and minimum light levels.

i Installer is obliged to verify the proper operation of the device. There is a small probability that calibration settings will require a manual correction.

i In a 2-wire connection for non-resistive loads minimum level (parameter 150) must be adjusted manually.

i In a 2-wire connection if calibration results in Voltage Drop error, maximum level (parameter 151) must be adjusted manually.

i Some types of LED and CF lamps are designed to operate in leading edge mode (with conventional dimmers).

The device starts calibration automatically depending on parameter 175 or can be started manually by:

- Setting parameter 159 to 1 or 2 (without or with Bypass 2),
- Selecting blue or red (without or with Bypass 2) menu position.

The result of calibration will be confirmed by the LED frame:

- **GREEN** Light source recognized as dimmable, dimming levels set,
- **YELLOW** Light source recognized as non-dimmable, only switching possible,
- **RED** Calibration failed: lack of connected load or connected light source exceeds maximum power,
- **BLINKING RED** Calibration failed: installation failure or damaged load.

9: Operating the device

9.1: Controls



- 1. First/▲ button,
- 2. Second/▼ button,
- 3. LED ring.

9.3: Button control

Controlling connected load

Perform following actions on one of the buttons to change state of the connected load.

- Click \blacktriangle if turned off turn on with previous level,
- Click ▲ if turned on set to 100%,
- 2xClick ▲ set to 100%,
- Click ▼ turn off,
- Hold ▲ start brightening until released,
- Hold ▼ start dimming until released.

Other actions

Perform following actions on one of the buttons to:

- 3xClick start learn mode to add/remove to/from Z-Wave network,
- 1,2,3xClick/hold/release activate scene in the controller for specific action (requires prior configuration),
- 3xClick then press and hold enter the menu.

9.4: Visual indications

The built-in LED light shows current device status.

After powering the device:

• Green – device added to a Z-Wave network (non-secure, S0, S2 non-authenticated),

- Magenta device added to a Z-Wave network (Security S2 Authenticated),
- Red device not added to a Z-Wave network.

State of the device:

• White – load turned ON (configurable).

Update:

- Blinking cyan update in progress,
- Green update successful,
- Red update not successful.

Menu:

- Blinking green entering the menu (added as non-secure, S0, S2 non-authenticated),
- Blinking magenta entering the menu (added as Security S2 Authenticated),
- Blinking red entering the menu (not added to a Z-Wave network),
- Blue start load calibration
- Red start load calibration with FIBARO Bypass 2
- Green reset energy consumption memory,
- Magenta start Z-Wave range test,
- Yellow reset to factory defaults.

9.5: Menu

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

- 1. Quickly, three times click, then press and hold one of the buttons to enter the menu, device blinks to signal adding status (see 9.4: Visual indications).
- 2. Release the button when device signals desired position with colour:
 - **BLUE** start load calibration
 - **RED** start load calibration with FIBARO Bypass 2
 - **GREEN** reset energy consumption memory
 - MAGENTA start Z-Wave range test
 - YELLOW reset to factory defaults
- 3. Quickly click the button to confirm.

9.6: Resetting 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. Resetting to factory defaults does not reset energy consumption memory.

i 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 described.

- 1. Quickly, three times click, then press and hold one of the buttons to enter the menu.
- 2. Release the button when the device glows yellow.
- 3. Quickly click the button to confirm.
- 4. After a few seconds the device will be restarted, which is signalled with red LED colour.

10: Power and energy metering

The device allows for the active power and energy consumption monitoring. Data is sent to the main Z-Wave controller, e.g. Home Center.

Measuring is carried out by the most advanced microcontroller technology, assuring maximum accuracy and precision (+/- 1% for loads greater than 10W).

Electric active power – power that energy receiver is changing into a work or a heat. The unit of active power is Watt [W].



i Power measurement can contain mains voltage fluctu-ations within +/- 10%.

Electric energy – energy consumed by a device through a time period. Consumers of electricity in households are billed by suppliers on the basis of active power used in given unit of time. Most commonly measured in kilowatt-hour [kWh]. One kilowatt-hour is equal to one kilowatt of power consumed over period of one hour, 1kWh = 1000Wh.

Resetting consumption memory:

- 1. Quickly, three times click, then press and hold one of the buttons to enter the menu.
- 2. Release button when the device glows green.
- 3. Quickly click the button to confirm.
- 4. Device will blink two times green to confirm.

The device stores periodically the consumption data in i the device memory. Disconnecting the module from the power supply will not erase stored energy consumption data.

	3-wire connection	
	Brightness>70%	Brightness<70%
resistive load	±(0.5%+0.2W)	±(2%+0.2W)
resistive-inductive load	±(0.5%+0.2W)	±(2%+0.2W)
resisitve-capacitive load	±(0.5%+0.2W)	±(2%+0.2W)
	2-wire co	nnection
	Brightness>70%	Brightness<70%
resistive load	±(2%+0.2W)	±(4%+0.2W)
resistive-inductive load	Approximated*	Approximated*
resisitve-capacitive load	Approximated*	Approximated*

* Measurements are only illustrative, returned values may differ from the actual measurement. In the case of reporting incorrect values change the values of parameters 178 and 179.

11: Z-Wave range test

The device has a built in Z-Wave network main controller's range tester.

i To make Z-Wave range test possible, the device must be added to the Z-Wave controller. Testing may stress the network, so it is recommended to perform the test only in special cases.

To test the main controller's range:

- 1. Quickly, three times click, then press and hold one of the buttons to enter the menu.
- 2. Release button when the device glows magenta.
- 3. Quickly click the button to confirm.
- 4. Visual indicator will indicate the Z-Wave network's range (range signalling modes described below).
- 5. To exit Z-Wave range test, press the button briefly.

Z-Wave range tester signalling modes:

- Visual indicator pulsing green the device attempts to establish a direct communication with the main controller. If a direct communication attempt fails, the device will try to establish a routed communication, through other modules, which will be signalled by visual indicator pulsing yellow.
- **Visual indicator glowing green** the device communicates with the main controller directly.
- Visual indicator pulsing yellow the device tries to establish a routed communication with the main controller through other modules (repeaters).
- Visual indicator glowing yellow the device communicates with the main controller through the other modules. After 2 seconds the device will retry to establish a direct communication with the main controller, which will be signalled with visual indicator pulsing green.
- **Visual indicator pulsing violet** the device does communicate at the maximum distance of the Z-Wave network. If connection proves successful it will be confirmed with a yellow glow. It's not recommended to use the device at the range limit.
- **Visual indicator glowing red** the device is not able to connect to the main controller directly or through another Z-Wave network device (repeater).

i Communication mode of the device may switch between direct and one using routing, especially if the device is on the limit of the direct range.

12: Configuration

12.1: Associations

Association (linking devices) – direct control of other devices within the Z-Wave system network.

Associations allow:

- reporting the device status to the Z-Wave controller (using Lifeline group),
- creating simple automations by controlling other devices without participation of the main controller (using groups assigned to actions on the device).

i Commands send to 2nd and 3rd association groups reflect button operation according to device configuration, e.g. turning the load on using button will send frame responsible for the same action.

The device provides the association of 3 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 used to turn the associated devices on/off reflecting button operation (uses Basic command class).

3rd association group – "Dimmer" is used to change level of associated devices reflecting button operation (uses Switch Multilevel command class).

The device 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.

	1 click	2 click	Hold	Release
Button 1	Basic Set: 2nd group, Multilevel Set: 3rd group	Basic Set: 2nd group, Multilevel Set: 3rd group	Multilevel Start Change: 3rd group	Multilevel Stop Level Change: 3rd group
Button 2	Basic Set: 2nd group, Multilevel Set: 3rd group	_	Multilevel Start Change: 3rd group	Multilevel Stop Level Change: 3rd group

Commands sent to association groups

12.2: Advanced parameters

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.

In the FIBARO interface parameters are presented as simple options in Advanced Settings of the device.

Available parameters:

1.		Remember device state
Descr	iption	This parameter determines how the device will react in the event of power supply failure (e.g. power outage).
Parame	eter size	1B
Defaul	t value	1 (restores the state)
Δνοί	lahlo	0 – remains switched off after restoring power
val	ues	1 – restores remembered state after restoring power
2.		Overload safety switch
Descr	iption	This function allows to turn off the controlled device in case of exceeding the defined power. Controlled device can be turned back on via the button or sending a control frame.
Parame	eter size	4B
Defaul	t value	3500 (350W)
٨٧٦١	lablo	0 – function disabled
val	ues	10-5000 (1.0-500.0W, step 0.1W) – power threshold
10.		LED frame – power limit
Description		This parameter determines maximum active power. Exceeding it results in the LED frame flashing violet. Function is active only when pa- rameter 11 is set to 8 or 9.
Parame	eter size	4B
Defaul	t value	3500 (350W)
Avai val	lable ues	100-5000 (10.0-500.0W, step 0.1W) – power threshold

11.		LED frame – colour when ON	
Description		This parameter defines the LED colour when the device is ON.	
		When set to 8 or 9, LED frame colour will change depending on the measured power and param- eter 10. Other colours are set permanently and do not depend on power consumption.	
Parame	eter size	1B	
Defaul	t value	1 (white)	
		0 – LED disabled	
		1 – White	
		2 – Red	
		3 – Green	
		4 – Blue	
Avai	lable	5 – Yellow	
Val	ues	6 – Cyan	
		7 – Magenta	
		8 – colour changes smoothly depending on mea- sured power	
		9 – colour changes in steps depending on mea- sured power	
12.		LED frame – colour when OFF	
Descr	iption	This parameter defines the LED colour when the device is OFF.	
Parame	eter size	1B	
Defaul	t value	0 (disabled)	
		0 – LED disabled	
		1 – White	
		2 – Red	
Avai	lable	3 – Green	
val	ues	4 – Blue	
		5 – Yellow	
		6 – Cyan	
		7 – Magenta	

13.		LED frame – brightness
Descr	ription	This parameter allows to adjust the LED frame brightness.
Parame	eter size	1B
Defaul	t value	100 (100%)
		0 – LED disabled
		1-100 (1-100% brightness)
Avai val	lable ues	101 – brightness directly proportional to set level
		102 – brightness inversely proportional to set level
24.		Buttons orientation
Descr	iption	This parameter allows reversing the operation of the buttons.
Parame	eter size	1B
Defaul	t value	0
Avai	lable	0 – default (1st button brightens, 2nd button dims)
val	ues	1 – reversed (1st button dims, 2nd button brightens)
30.		Alarm configuration - 1st slot
Descr	iption	This parameter determines to which alarm frames and how the device should react. The parameters consist of 4 bytes, three most sig- nificant bytes are set according to the official Z-Wave protocol specification.
Parame	eter size	4B
Defaul	t value	[0x00, 0x00, 0x00, 0x00] (disabled)
		1B [MSB] – Notification Type
		2B – Notification Status
		3B – Event/State Parameters
		4B [LSB] – action:
Available values		0x00 – no action on output, 0xX1 – turn ON, 0xX2 – turn OFF, 0xX3 – turn ON/OFF continu- ously, 0x0X – no action on LED frame, 0x1X – LED frame blinks red, 0x2X – LED frame blinks green, 0x4X – LED frame blinks blue, 0x8X – dis- able LED frame, 0xFX – LED frame LAPD signal (red-white-blue)

31.		Alarm configuration - 2nd slot
Description		This parameter determines to which alarm frames and how the device should react. The parameters consist of 4 bytes, three most sig- nificant bytes are set according to the official Z-Wave protocol specification.
Parame	eter size	4B
Dofaul	t value	[0x05, 0xFF, 0x00, 0x00]
Delaul	t value	(Water Alarm, any notification, no action)
		1B [MSB] – Notification Type
		2B – Notification Status
		3B – Event/State Parameters
		4B [LSB] – action:
Available values		0x00 – no action, 0xX1 – turn ON, 0xX2 – turn OFF, 0xX3 – turn ON/OFF continuously, 0x0X – no action on LED frame, 0x1X – LED frame blinks red, 0x2X – LED frame blinks green, 0x4X – LED frame blinks blue, 0x8X – disable LED frame, 0xFX – LED frame LAPD signal (red-white-blue)
32.		Alarm configuration - 3rd slot
32. Descr	iption	Alarm configuration - 3rd slot This parameter determines to which alarm frames and how the device should react. The parameters consist of 4 bytes, three most sig- nificant bytes are set according to the official Z-Wave protocol specification.
32. Descr Parame	iption eter size	Alarm configuration - 3rd slot This parameter determines to which alarm frames and how the device should react. The parameters consist of 4 bytes, three most sig- nificant bytes are set according to the official Z-Wave protocol specification. 4B
32. Descr Parame	iption eter size	Alarm configuration - 3rd slot This parameter determines to which alarm frames and how the device should react. The parameters consist of 4 bytes, three most sig- nificant bytes are set according to the official Z-Wave protocol specification. 4B [0x01, 0xFF, 0x00, 0x00]
32. Descr Parame Defaul	iption eter size t value	Alarm configuration - 3rd slotThis parameter determines to which alarm frames and how the device should react. The parameters consist of 4 bytes, three most sig- nificant bytes are set according to the official Z-Wave protocol specification.4B[0x01, 0xFF, 0x00, 0x00] (Smoke Alarm, any notification, no action)
32. Descr Parame Defaul	iption eter size t value	Alarm configuration - 3rd slotThis parameter determines to which alarm frames and how the device should react. The parameters consist of 4 bytes, three most sig- nificant bytes are set according to the official Z-Wave protocol specification.4B[0x01, 0xFF, 0x00, 0x00] (Smoke Alarm, any notification, no action)1B [MSB] – Notification Type
32. Descr Parame Defaul	iption eter size t value	Alarm configuration - 3rd slotThis parameter determines to which alarm frames and how the device should react. The parameters consist of 4 bytes, three most sig- nificant bytes are set according to the official Z-Wave protocol specification.4B[0x01, 0xFF, 0x00, 0x00] (Smoke Alarm, any notification, no action)1B [MSB] – Notification Type 2B – Notification Status
32. Descr Parame Defaul	iption eter size t value	Alarm configuration - 3rd slotThis parameter determines to which alarm frames and how the device should react. The parameters consist of 4 bytes, three most sig- nificant bytes are set according to the official Z-Wave protocol specification.4B[0x01, 0xFF, 0x00, 0x00] (Smoke Alarm, any notification, no action)1B [MSB] – Notification Type 2B – Notification Status 3B – Event/State Parameters
32. Descr Parame Defaul	iption eter size t value	Alarm configuration - 3rd slotThis parameter determines to which alarm frames and how the device should react. The parameters consist of 4 bytes, three most sig- nificant bytes are set according to the official Z-Wave protocol specification.4B[0x01, 0xFF, 0x00, 0x00] (Smoke Alarm, any notification, no action)1B [MSB] – Notification Type 2B – Notification Status 3B – Event/State Parameters 4B [LSB] – action:

33.	Alarm configuration - 4th slot	
Descr	iption	This parameter determines to which alarm frames and how the device should react. The parameters consist of 4 bytes, three most sig- nificant bytes are set according to the official Z-Wave protocol specification.
Parame	eter size	4B
Defaul	t value	[0x02, 0xFF, 0x00, 0x00]
Berdu	value	(CO Alarm, any notification, no action)
		1B [MSB] – Notification Type
		2B – Notification Status
		3B – Event/State Parameters
		4B [LSB] – action:
Available values		0x00 – no action, 0xX1 – turn ON, 0xX2 – turn OFF, 0xX3 – turn ON/OFF continuously, 0x0X – no action on LED frame, 0x1X – LED frame blinks red, 0x2X – LED frame blinks green, 0x4X – LED frame blinks blue, 0x8X – disable LED frame, 0xFX – LED frame LAPD signal (red-white-blue)
34.		Alarm configuration - 5th slot
34. Descr	iption	Alarm configuration - 5th slot This parameter determines to which alarm frames and how the device should react. The parameters consist of 4 bytes, three most sig- nificant bytes are set according to the official Z-Wave protocol specification.
34. Descr Parame	iption eter size	Alarm configuration - 5th slot This parameter determines to which alarm frames and how the device should react. The parameters consist of 4 bytes, three most sig- nificant bytes are set according to the official Z-Wave protocol specification. 4B
34. Descr Parame	iption eter size	Alarm configuration - 5th slot This parameter determines to which alarm frames and how the device should react. The parameters consist of 4 bytes, three most sig- nificant bytes are set according to the official Z-Wave protocol specification. 4B [0x04, 0xFF, 0x00, 0x00]
34. Descr Parame Defaul	iption eter size t value	Alarm configuration - 5th slotThis parameter determines to which alarm frames and how the device should react. The parameters consist of 4 bytes, three most sig- nificant bytes are set according to the official Z-Wave protocol specification.4B[0x04, 0xFF, 0x00, 0x00] (Heat Alarm, any notification, no action)
34. Descr Parame Defaul	iption eter size t value	Alarm configuration - 5th slotThis parameter determines to which alarm frames and how the device should react. The parameters consist of 4 bytes, three most sig- nificant bytes are set according to the official Z-Wave protocol specification.4B[0x04, 0xFF, 0x00, 0x00] (Heat Alarm, any notification, no action)1B [MSB] – Notification Type
34. Descr Parame Defaul	iption eter size t value	Alarm configuration - 5th slot This parameter determines to which alarm frames and how the device should react. The parameters consist of 4 bytes, three most sig- nificant bytes are set according to the official Z-Wave protocol specification. 4B [0x04, 0xFF, 0x00, 0x00] (Heat Alarm, any notification, no action) 1B [MSB] – Notification Type 2B – Notification Status
34. Descr Parame Defaul	iption eter size t value	Alarm configuration - 5th slot This parameter determines to which alarm frames and how the device should react. The parameters consist of 4 bytes, three most sig- nificant bytes are set according to the official Z-Wave protocol specification. 4B [0x04, 0xFF, 0x00, 0x00] (Heat Alarm, any notification, no action) 1B [MSB] – Notification Type 2B – Notification Status 3B – Event/State Parameters
34. Descr Parame Defaul	iption eter size t value	Alarm configuration - 5th slot This parameter determines to which alarm frames and how the device should react. The parameters consist of 4 bytes, three most sig- nificant bytes are set according to the official Z-Wave protocol specification. 4B [0x04, 0xFF, 0x00, 0x00] (Heat Alarm, any notification, no action) 1B [MSB] – Notification Type 2B – Notification Status 3B – Event/State Parameters 4B [LSB] – action:

35.		Alarm configuration – duration
Descr	iption	This parameter defines duration of alarm se- quence. When time set in this parameter elaps- es, alarm is cancelled, LED frame and relay restore normal operation, but do not recover state from before the alarm.
Parame	eter size	2B
Defaul	t value	600 (10min)
Avai	lable	0 – infinite
val	ues	1-32400 (1s-9h, 1s step) – duration
40.		First button – scenes sent
Description		This parameter determines which actions result in sending scene IDs assigned to them. Values can be combined (e.g. 1+2=3 means that scenes for single and double click are sent).
		Enabling scenes for triple click disables entering the device in learn mode by triple clicking.
Parame	eter size	1B
Defaul	t value	0 (no scenes)
		1 – Key pressed 1 time
Avai	lable	2 – Key pressed 2 times
val	ues	4 – Key pressed 3 times
		8 – Key hold down and key released
41.		Second button – scenes sent
Description		This parameter determines which actions result in sending scene IDs assigned to them. Values can be combined (e.g. 1+2=3 means that scenes for single and double click are sent).
		Enabling scenes for triple click disables entering the device in learn mode by triple clicking.
Parame	eter size	1B
Defaul	t value	0 (no scenes)
		1 – Key pressed 1 time
Avai	lable	2 – Key pressed 2 times
val	ues	4 – Key pressed 3 times
		8 – Key hold down and key released

60.	Power reports – include self-consumption	
Descr	iption	This parameter determines whether the power measurements should include power consumed by the device itself.
Parame	eter size	1B
Defaul	t value	0 (not included)
Avai	lable	0 – Self-consumption not included
val	ues	1 – Self-consumption included
61.		Power reports – on change
Descr	iption	This parameter defines minimal change (from the last reported) in measured power that re- sults in sending new report. For loads under 50W the parameter is irrelevant, report is sent every 5W change.
Parame	eter size	2B
Defaul	t value	15 (15%)
Avai	lable	0 – reporting on change disabled
val	ues	1-500 (1-500%, 1% step) – minimal change
62.	Power reports – periodic	
Descr	iption	This parameter defines reporting interval for measured power. Periodic reports are indepen- dent from changes in value (parameter 61).
Parame	eter size	2B
Defaul	t value	3600 (1h)
Avai	lable	0 – periodic reports disabled
val	ues	30-32400 (30s-9h, 1s step) – time interval
65.	65. Energy reports – on change	
Descr	iption	This parameter defines minimal change (from the last reported) in measured energy that results in sending new report.
Parame	eter size	2B
Defaul	t value	10 (0.1kWh)
		0 reporting on change disabled
Avi	lahlo	o – reporting on change disabled

66.		Energy reports – periodic
Descr	iption	This parameter defines reporting interval for measured energy. Periodic reports are indepen- dent from changes in value (parameter 65).
Parame	eter size	2B
Defaul	t value	3600 (1h)
Avai	lable	0 – periodic reports disabled
val	ues	30-32400 (30s-9h, 1s step) – time interval
150.		Minimum brightness level
Descr	iption	This parameter is set automatically during the calibration process, but can be changed manual-ly after the calibration.
Parame	eter size	1B
Defaul	t value	1
Avai val	lable ues	1-98 (1-98%, 1% step) – level of brightness
151.		Maximum brightness level
Descr	iption	This parameter is set automatically during the calibration process, but can be changed manual-ly after the calibration.
Parame	eter size	1B
Defaul	t value	99
Avai val	lable ues	2-99 (2-99%, 1% step) – level of brightness
152.	Incande	scence level of dimmable compact fluorescent lamps
Descr	iption	The virtual value set as a percentage level be- tween parameters MIN (1%) and MAX. (99%). The device will set to this value after the first switch on. It is required for warming up and switching dimmable compact fluorescent lamps and certain types of light sources.
Parame	eter size	1B
Defaul	t value	1
Avai val	lable ues	1-99 (1-98%, 1% step) – level of brightness

153.	Incandescence time of dimmable compact fluorescent lamps		
Description		This parameter determines the time required for switching compact fluorescent lamps and certain types of light sources. Setting this pa- rameter to 0 will disable the incandescence functionality.	
Parame	eter size	2B	
Defau	lt value	0	
Avai val	lable ues	0-255 (0-25.5s, 0.1s step) – incandescence time	
154.		Automatic control – dimming step size	
Descr	ription	This parameter defines the percentage value of dimming step during the automatic control.	
Parame	eter size	1B	
Defau	lt value	1	
Avai val	lable ues	1-99 (1-99%, 1% step) – dimming step	
155. Au		tomatic control – time of dimming step	
Descr	ription	This parameter defines the time of performing a single dimming step set in parameter 154 during the automatic control.	
Parame	eter size	2B	
Defau	t value	1 (10ms)	
Avai val	lable ues	0-255 (0-2.55s, 10ms step)	
156.		Manual control – dimming step size	
Descr	ription	This parameter defines the percentage value of the dimming step during the manual control.	
Parame	eter size	1B	
Defau	t value	1	
Available values		1-99 (1-99%, 1% step) – dimming step	

157.	I	Manual control – time of dimming step		
Description		This parameter defines the time of performing a single dimming step set in parameter 156 during the manual control.		
Parame	eter size	2В		
Defaul	t value	5 (50ms)		
Avai val	lable ues	0-255 (0-2.55s, 10ms step)		
158.		Auto-off functionality		
Description		This parameter allows to automatically switch off the device after a specified time from switch- ing the light source on. It may be useful when the device is installed in the stairway.		
Parame	eter size	2В		
Defaul	t value	0		
Avai	lable	0 – auto-off disabled		
val	ues	1-32767 (1s-9.1h, 1s step) – auto-off time		
159.		Force auto-calibration		
Description		Changing value of this parameter will force the calibration process. During the calibration pa- rameter is set to 1 or 2 and switched to 0 upon completion.		
Parame	eter size	1B		
Defaul	t value	0		
		0 – readout		
Avai val	lable ues	1 – force auto-calibration without FIBARO Bypass 2		
		2 – force auto-calibration with FIBARO Bypass 2		
160.	Auto	o-calibration status (read-only parameter)		
Descr	iption	This parameter determines operating mode of the device (automatic/manual settings).		
Parame	eter size	1B		
Defaul	t value	0		
Available values		0 – calibration procedure not performed or the device operates on manual settings		
		1 – the device operates on auto-calibration settings		

161.	Burnt out bulb detection		
Description		This parameter defines percentage power vari- ation (compared to power consumption mea- sured during the calibration) to be interpreted as load error/burnt out bulb.	
Parame	eter size	1B	
Defaul	t value	0	
Available		0 – function disabled	
val	ues	1-99 (1-99%, 1% step) – power variation	
162.	Time de	lay of a burnt out bulb and overload detection	
Descr	iption	This parameter defines detection delay for the burnt out bulb (parameter 161) and overload (parameter 2).	
Parame	eter size	2B	
Defaul	t value	5	
Avai	lable	0 – detection of a burnt out bulb disabled	
values		1-255 (1-255s, 1s step) – time delay	
163.	First button – Switch ON value sent to 2nd and 3rd association groups		
		0 1	
Descr	iption	This parameter defines value sent with Switch ON command to devices associated in 2nd and 3rd association group.	
Descr	iption eter size	This parameter defines value sent with Switch ON command to devices associated in 2nd and 3rd association group. 2B	
Descr Parame Defaul	iption eter size t value	This parameter defines value sent with Switch ON command to devices associated in 2nd and 3rd association group. 2B 255	
Descr Parame Defaul Avai	iption eter size t value lable	This parameter defines value sent with Switch ON command to devices associated in 2nd and 3rd association group. 2B 255 0-99, 255 – value sent	
Descr Parame Defaul Avai val	iption eter size t value lable ues	This parameter defines value sent with Switch ON command to devices associated in 2nd and 3rd association group. 2B 255 0-99, 255 – value sent 254 – send value equal to the current level	
Descr Parame Defaul Avai val 164.	iption eter size t value lable ues Second	This parameter defines value sent with Switch ON command to devices associated in 2nd and 3rd association group. 2B 255 0-99, 255 – value sent 254 – send value equal to the current level button – Switch OFF value sent to 2nd and 3rd association groups	
Descr Parame Defaul Avai val 164. Descr	iption eter size t value lable ues Second	This parameter defines value sent with Switch ON command to devices associated in 2nd and 3rd association group. 2B 255 0-99, 255 – value sent 254 – send value equal to the current level button – Switch OFF value sent to 2nd and 3rd association groups This parameter defines value sent with Switch OFF command to devices associated in 2nd and 3rd association group.	
Descr Parame Defaul Avai val 164. Descr Parame	iption eter size t value lable ues Second iption	This parameter defines value sent with Switch ON command to devices associated in 2nd and 3rd association group. 2B 255 0-99, 255 – value sent 254 – send value equal to the current level button – Switch OFF value sent to 2nd and 3rd association groups This parameter defines value sent with Switch OFF command to devices associated in 2nd and 3rd association group. 2B	
Descr Parame Defaul Avai val 164. Descr Parame Defaul	iption eter size t value lable ues Second iption eter size t value	This parameter defines value sent with Switch ON command to devices associated in 2nd and 3rd association group. 2B 255 0-99, 255 – value sent 254 – send value equal to the current level button – Switch OFF value sent to 2nd and 3rd association groups This parameter defines value sent with Switch OFF command to devices associated in 2nd and 3rd association group. 2B 0	
Descr Parame Defaul Avai val 164. Descr Parame Defaul Avai	iption eter size t value lable ues Second iption eter size t value lable	This parameter defines value sent with Switch ON command to devices associated in 2nd and 3rd association group. 2B 255 0-99, 255 – value sent 254 – send value equal to the current level button – Switch OFF value sent to 2nd and 3rd association groups This parameter defines value sent with Switch OFF command to devices associated in 2nd and 3rd association group. 2B 0 0-99, 255 – value sent	

165.		Double click – set level		
Description		This parameter defines brightness level set after double-clicking any of the buttons. The same value is also sent to devices associated with 2nd and 3rd association group.		
Parame	eter size	1B		
Defaul	t value	99		
Avai val	lable ues	0-99 (0-99%, 1% step) – set level		
170.		Load control mode		
Description		This parameter allows to set the desired load control mode. Auto-calibration sets value of this parameter to 2 (control mode recognized during auto-calibration), but the installer may force control mode using this parameter.		
		After changing parameter value, turn the load OFF and ON to change control mode.		
Parameter size		1B		
Defaul	t value	2		
		0 – forced leading edge		
Avai	lable	1 – forced trailing edge		
val	ues	2 – control mode selected automatically (based on auto-calibration)		
171.	171. Load control mode recognized during auto-calibra (read only)			
Description		This parameter allows to read load control mode that was set during auto-calibration.		
Parame	eter size	1B		
Defaul	t value	-		
Avai	lable	0 – leading edge		
values		1 – trailing edge		

172.	ON/OFF mode			
Description		This mode is necessary while connecting non-dimmable light sources. Setting this param- eter to 1 automatically ignores brightening/dim- ming time settings. Forced auto-calibration will set this parameter's value to 2.		
Parame	eter size	1B		
Defau	lt value	2		
		0 – ON/OFF mode disabled (dimming is possible)		
Avai val	lable ues	1 – ON/OFF mode enabled (dimming is not possible)		
		2 – mode selected automatically		
173.		Dimmability of the load (read only)		
Descr	ription	This parameter allows to read if the load detected during calibration procedure is dimmable.		
Parame	eter size	1B		
Defau	lt value			
Avai	lable	0 – load recognized as dimmable		
val	ues	1 – load recognized as non-dimmable		
174.		Soft-start functionality		
Descr	ription	This parameter allows to set time required to warm up the filament of halogen bulb.		
Parame	eter size	1B		
Defau	lt value	1		
		0 – no soft-start		
Avai val	lable ues	1 – short soft-start (0.1s)		
Values		2 – long soft-start (0.5s)		

175.	Auto-calibration after power on		
Description		This parameter determines the trigger of au- to-calibration procedure, e.g. power on, load error, etc.	
Parame	eter size	1B	
Defaul	t value	0	
		0 – no auto-calibration after power on	
		2 – Auto-calibration after each power on	
Available values		3 – Auto-calibration after each LOAD ERROR (no load, load failure, burnt out bulb), if parameter 176 is set to 1 also after SURGE (output overvolt- age) and OVERCURRENT (output overcurrent)	
		4 – Auto-calibration after each power on or after each LOAD ERROR (no load, load failure, burnt out bulb), if parameter 176 is set to 1 also after SURGE (output overvoltage) and OVERCURRENT (output overcurrent)	
176.	B	ehaviour after OVERCURRENT or SURGE	
Description		Error occurrences related to surge or overcur- rent results in turning off the output to prevent possible malfunction. By default the device per- forms three attempts to turn on the load (useful in case of temporary, short failures of the power supply).	
Parameter size		1B	
Default value		1	
Available values		0 – device permanently disabled until re-en- abling by command or external switch 1 – three attempts to turn on the load	

177.	Brightness level correction for flickering loads		
Description		Correction reduces spontaneous flickering of some capacitive loads (e.g. dimmable LEDs) at certain brightness levels in 2-wire installation.	
		In countries using ripple-control, correction may cause changes in brightness. In this case it is necessary to disable correction or adjust the time of correction for flickering loads.	
Parame	eter size	2B	
Defaul	t value	255	
		0 – automatic correction disabled	
Avai	lable ues	1-254 (1-254s, 1s step) – duration of correction	
		255 – automatic correction always enabled	
178.	Ν	Method of calculating the active power	
Descr	iption	This parameter defines how to calculate active power. It is useful in a case of 2-wire connection with light sources other than resistive.	
Parame	eter size	1B	
Defaul	t value	0	
Avai	lable	0 – measurement based on the standard algorithm	
val	ues	1 – approximation based on the calibration data	
		2 – approximation based on the control angle	
179. Approxim		ximated power at the maximum brightness level	
Description		This parameter determines the approximate value of the power that will be reported by the device at its maximum brightness level.	
Parame	eter size	2B	
Defaul	t value	0	
Available values		0-500 (0-500W, 1W step) – power consumed by the load at the maximum brightness level.	

13: Z-Wave specification

Generic Device Class: GENERIC_TYPE_SWITCH_MULTILEVEL Specific Device Class: SPECIFIC_TYPE_POWER_SWITCH_MULTILEVEL Supported Command Classes

	Command Class	Version	Secure
1.	COMMAND_CLASS_ZWAVEPLUS_INFO [0x5E]	V2	
2.	COMMAND_CLASS_SWITCH_MULTILEVEL [0x26]	V4	YES
3.	COMMAND_CLASS_ASSOCIATION [0x85]	V2	YES
4.	COMMAND_CLASS_MULTI_CHANNEL_ASSOCI- ATION [0x8E]	V3	YES
5.	COMMAND_CLASS_ASSOCIATION_GRP_INFO [0x59]	V2	YES
6.	COMMAND_CLASS_TRANSPORT_SERVICE [0x55]	V2	
7.	COMMAND_CLASS_VERSION [0x86]	V2	YES
8.	COMMAND_CLASS_MANUFACTURER_SPECIFIC [0x72]	V2	YES
9.	COMMAND_CLASS_DEVICE_RESET_LOCALLY [0x5A]	V1	YES
10.	COMMAND_CLASS_POWERLEVEL [0x73]	V1	YES
11.	COMMAND_CLASS_SECURITY [0x98]	V1	
12.	COMMAND_CLASS_SECURITY_2 [0x9F]	V1	
13.	COMMAND_CLASS_SUPERVISION [0x6C]	V1	
14.	COMMAND_CLASS_METER [0x32]	V3	YES
15.	COMMAND_CLASS_CONFIGURATION [0x70]	V1	YES
16.	COMMAND_CLASS_CRC_16_ENCAP [0x56]	V1	
17.	COMMAND_CLASS_NOTIFICATION [0x71]	V8	YES
18.	COMMAND_CLASS_PROTECTION [0x75]	V2	YES
19.	COMMAND_CLASS_CENTRAL_SCENE [0x5B]	V3	YES
20.	COMMAND_CLASS_FIRMWARE_UPDATE_MD [0x7A]	V4	YES
21.	COMMAND_CLASS_APPLICATION_STATUS [0x22]	V1	
22.	COMMAND_CLASS_BASIC [0x20]	V1	YES

Notification Command Class

The device uses Notification Command Class to report different events to the controller ("Lifeline" group).

Notifica- tion Type	Event	Parameter	Status
Power Man- agement [0x08]	Over-current de- tected [0x06/V3]		0xFF – enable (non-changeable)
Power Man- agement [0x08]	Over-load detect- ed [0x08]		0xFF – enable (non-changeable)
Power Man- agement [0x08]	Load error [0x09]		0xFF – enable (non-changeable)
Power Man- agement [0x08]	Surge detected [0x04]		0xFF – enable (non-changeable)
Power Man- agement [0x08]	Voltage Drop/Drift [0x05]		0xFF – enable (non-changeable)
System [0x09]	System hardware failure with man- ufacturer propri- etary failure code [0x03]	MP code: 0x01 [device overheat]	0xFF – enable (non-changeable)

Protection CC

Protection Command Class allows to prevent local or remote control of the outputs.

Туре	State	Description	Hint
Local	0	Unprotected - The device is not protected, and may be operated normally via the user interface.	Inputs connected with outputs.
Local	2	No operation possible – button can not change relay state, any other functionality is available (menu).	Inputs discon- nected from outputs.
RF	0	Unprotected - The device accept and respond to all RF Commands.	Outputs can be controlled via Z-Wave.
RF	1	No RF control – command class ba- sic and switch binary are rejected, every other command class will be handled.	Outputs cannot be controlled via Z-Wave.

Meter CC

Meter Type	Scale	Rate Type	Precision	Size
Electric [0x01]	Electric_kWh [0x00] (default)	lmport [0x01]	2	4
Electric [0x01]	Electric_W [0x02]	lmport [0x01]	1	2

14: Parts compatibility

Available FIBA	Included in		
Name	Symbol	FGWDEU-111	
Walli Dimmer Unit	FG-WDEU111-AS-8001	х	
Switch Button with Lightguide	FG-WDSEU221-AS-8100	х	
Switch Button Adapter	FG-WDSEU221-PP-0007		
Mounting Frame FIBARO/ GIRA	FG-Wx-AS-4001	х	
Mounting Frame Legrand	FG-Wx-AS-4002		
Mounting Frame Schneider	FG-Wx-AS-4003		
Single Cover Plate	FG-Wx-PP-0001	х	
Double Cover Plate	FG-Wx-PP-0003		
Triple Cover Plate	FG-Wx-PP-0004		

Parts required for GIRA System 55 (only with non-metalised outer surface: Standard 55, E2, Event, Event Clear) covers

Required FIBARO parts		
Name	Symbol	
Walli Dimmer Unit	FG-WDEU111-AS-8001	
Switch Button Adapter	FG-WDSEU221-PP-0007	
Mounting Frame FIBARO/GIRA	FG-Wx-AS-4001	

Parts required for Legrand Céliane covers

Required FIBARO parts	
Name	Symbol
Walli Dimmer Unit	FG-WDEU111-AS-8001
Switch Button Adapter	FG-WDSEU221-PP-0007
Mounting Frame Legrand	FG-Wx-AS-4002

Parts required for Schneider Odace covers

Required FIBARO parts	
Name	Symbol
Walli Dimmer Unit	FG-WDEU111-AS-8001
Mounting Frame Schneider	FG-Wx-AS-4003

15: Regulations

Legal Notices

All information, including, but not limited to, information regarding the features, functionality, and/or other product specification are subject to change without notice. Fibaro reserves all rights to revise or update its products, software, or documentation without any obligation to notify any individual or entity.

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Declaration of conformity

Hereby, Fibar Group S.A. declares that the device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.manuals.fibaro.com

WEEE Directive Compliance

Device labelled with this symbol should not be disposed with other household wastes. It shall be handed over to the applicable collection point for the recycling of waste electrical and electronic equipment.

