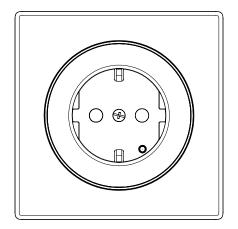


# OPERATING MANUAL





# **FIBARO WALLI OUTLET**

**FGWOE-011 and FGWOF-011** 

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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 and licensed electrician. Observe national regulations.

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  $\lambda$  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- $\Delta$  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 \ animals!

## 2: Description and features

### 2.1: Description

**FIBARO Walli Outlet** is a smart electrical outlet designed to control electrical devices via Z-Wave network.

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

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

#### 2.2: Main features

- Can turn ON/OFF plugged device remotely.
- Available in two versions for plug types:
  - » Type E,
  - » Type F.
- Can be used with FIBARO Walli covers or other compatible (see "Parts compatibility" on page 29):
  - » GIRA System 55 (Standard 55, E2, Event, Event Clear),
  - » Legrand Céliane,
  - » Schneider Odace.
- Active power and energy consumption metering.
- Displays current load using multicolour LED frame (with FIBARO cover plate).
- 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.

:	ן The	d€	evice is a	Security l	Enabled 2	Z-Wave Plus	s prod	uct
1	J and	а	Security	Enabled	Z-Wave	Z-Wave Plus Controller	must	be
us	ed in	ord	der to fully	y utilize th	ne produ	ct.		

# **3: Specifications**

Power supply	110-230V~ 50/60 Hz
Rated load current	16A – resistive loads
Active element	micro-gap relay μ
Recommended external overcurrent protection	16A type B circuit breaker
For installation in boxes	Ø = 60mm, depth ≥ 50mm
Recommended wires	cross-section area between 1.5-4.0mm², stripped 15.5-16.5mm of insulation
Operating temperature	0-40°C
Ambient humidity	0–90% RH without condensation
Radio protocol	Z-Wave (500 series chip)
Radio frequency band	868.0-868.6MHz; 869.7-870.0MHz
Max. transmitting power	+6dBm
Range	up to 50m outdoors up to 40m indoors (depending on terrain and building structure)
Dimensions (Height x Width x Depth)	FGWOE-011: 86 x 86 x 48 mm FGWOF-011: 86 x 86 x 51 mm
Compliance with EU directives	RoHS 2011/65/EU RED 2014/53/EU

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.

### 4: Installation

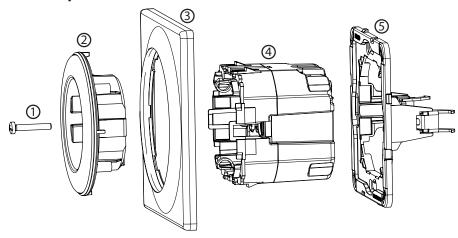
#### 4.1: Before installation



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 to the diagram,
- Install only in flush mounting boxes compliant with a relevant national safety standards and with depth no less than 50mm,
- **Do not** connect devices which are not compliant with the specification or relevant safety standards.
- Make sure you have all required parts when installing with covers other than FIBARO (see "Parts compatibility" on page 29).

#### **Device parts:**



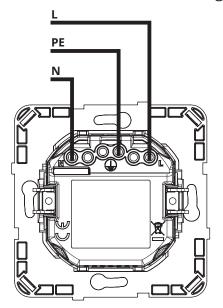
1 – screw, 2 – socket cover, 3 – cover plate, 4 – unit (device), 5 – mounting frame

## 4.2: Preparing for installation

- 1. Remove the screw.
- 2. Take off the socket cover and cover plate.
- 3. Prepare wires by removing 15.5-16.5mm of insulation from their ends. Groove on the back of the unit shows maximum wire length.

#### 4.3: Electrical connection

- 1. Switch off the mains voltage (disable the fuse).
- 2. Connect the device according to the diagram:



#### Notes for the diagram:

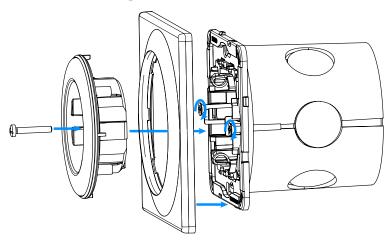
- N terminal for neutral wire
- terminal for earthing wire
- L terminal for live wire

Diagram: Example connection in electrical installation

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

## 4.4: First assembly

### 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 socket cover to the device.
- 4. Secure with a screw.
- 5. Add the device to Z-Wave network (see "Adding to Z-Wave network" on page 11)

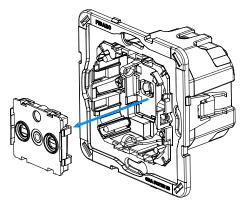
## 4.5: Changing covers

For safety reasons the button should be used only with FIBARO cover. We recommend adding the device to Z-Wave network before changing the cover plate.

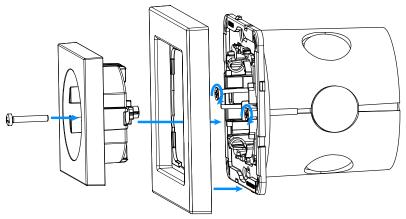
The light effect might look different for covers other than Walli. You can adjust colour and/or intensity of the LEDs to suit the particular cover (using parameters 11, 12, and 13) or disable it by changing parameter 13 to 0.

#### When installing with GIRA covers:

- 1. Switch off the mains voltage (disable the fuse).
- 2. Dismount the socket cover and cover plate.



3. Dismount shutter mechanism using pliers.

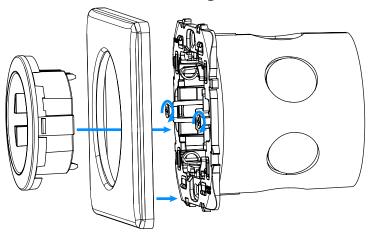


- 4. Snap the new cover plate to the device.
- 5. Snap the new socket cover to the device.
- 6. Secure with a screw.
- 7. Switch on the mains voltage.

#### When installing with Legrand covers:

- 1. Switch off the mains voltage (disable the fuse).
- 2. Dismount the socket cover and cover plate.
- 3. Take the device out of the mounting box and detach the wires.

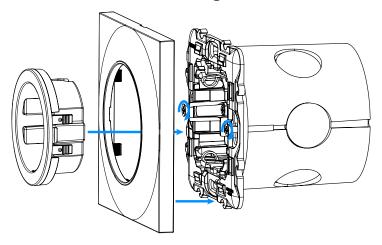
- 4. Replace FIBARO mounting frame with Legrand mounting frame (FG-Wx-AS-4002).
- 5. Connect wires according to "Electrical connection" on page 8.



- 6. Insert the device with mounting frame into the mounting box and secure with mounting claws and screws.
- 7. Snap the new cover plate to the device.
- 8. Snap the new socket cover to the device.
- 9. Switch on the mains voltage.

#### When installing with Schneider covers:

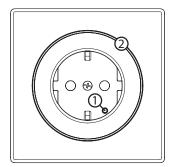
- 1. Switch off the mains voltage (disable the fuse).
- 2. Dismount the socket cover and cover plate.
- 3. Take the device out of the mounting box and detach the wires.
- 4. Replace FIBARO mounting frame with Schneider mounting frame (FG-Wx-AS-4003).
- 5. Connect wires according to "Electrical connection" on page 8.



- 6. Insert the device with mounting frame into the mounting box and secure with mounting claws and screws.
- 7. Snap the new cover plate to the device.
- 8. Snap the new socket cover to the device.
- 9. Switch on the mains voltage.

## 5: Adding to Z-Wave network

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



- 1. Button,
- 2. LED ring.

Full DSK code is present only on the box, make sure to keep it or copy the code.

### 5.1: Adding manually

Use the button only with FIBARO cover to ensure safety.

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

- 1. Power the device.
- 2. Set the main controller in (Security/non-Security Mode) add mode (see the controller's manual).
- 3. Quickly, three times click the button.
- 4. If you are adding in Security S2 Authenticated, input the underlined part of the DSK (label on the bottom of the box).
- 5. LED will start blinking yellow, wait for the adding process to end.
- 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.

### 5.2: Adding using SmartStart

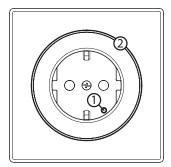
**SmartStart** enabled products can be added into a Z-Wave network by scanning the Z-Wave QR Code present on the product with a controller providing SmartStart inclusion. SmartStart product will be added automatically within 10 minutes of being switched on in the network range.

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 adding process to start (up to few minutes), which is signalled with yellow LED blinking.
- 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.
    - In case of problems with adding the device, please reset the device and repeat the adding procedure.

## 6: Removing from Z-Wave network

i Use the button only with FIBARO cover to ensure safety.



- 1. Button,
- 2. LED ring.

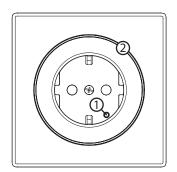
**Removing (Exclusion)** – Z-Wave device learning mode, allowing to remove the device from existing Z-Wave network. Removing also results in resetting the device to factory defaults.

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

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

## 7: Operating the device

### 7.1: Controls



- 1. Button,
- 2. LED ring.

Use the button only with FIBARO cover to ensure safety.

#### 7.2: Button control

- 1xClick change to the opposite state (ON/OFF),
- 3xClick start learn mode to add/remove to/from Z-Wave network,
- Press and hold enter the menu.

#### 7.3: 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:

Colour depending on current load – device turned ON (by default).

#### **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),
- Green reset energy consumption memory,
- Magenta start Z-Wave range test,
- Yellow reset to factory defaults,

#### 7.4: Menu

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

- 1. Press and hold the button to enter the menu, device blinks to signal adding status (see 7.3: Visual indications).
- 2. Release the button when device signals desired position with colour:
  - GREEN reset energy consumption memory
  - MAGENTA start Z-Wave range test
  - YELLOW reset to factory defaults
- 3. Quickly click the button to confirm.

## 7.5: 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.

:	Resetting the device is not the recommended way of
1	Resetting the device is not the recommended way of removing the device from the Z-Wave network. Use re-
set <sub> </sub>	procedure only if the primary controller is missing or
inop	erable. Certain device removal can be achieved by the
prod	cedure of removing described.

·	Use	the	button	only	with	FIBARO	cover	to	ensure
I	safe	ty.							

- 1. Press and hold the button to enter the menu.
- 2. Release the button when the device glows yellow.
- 3. Quickly click the button to confirm.
- 4. Device will blink yellow to confirm.
- 5. After a few seconds the device will be restarted, which is signalled with red LED colour.

## 8: 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 5W).

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

Power measurement can contain mains voltage fluctuations 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:**

- Use the button only with FIBARO cover to ensure safety.
- 1. Press and hold the button 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 (every hour) the consumption data in the device memory. Disconnecting the module from the power supply will not erase stored energy consumption data.

## 9: Z-Wave range test

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

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. Press and hold the button 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).

:	Commui	nication	mode	of t	the	device	may	switch	be-
1	tween d	irect and	d one	usin	g ro	outing,	espe	cially if	the
	ice is on t						-		

## 10: Configuration

#### 10.1: 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).

#### The device provides the association of 2 groups:

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

**2nd association group – "Power"** devices in this group will be switched on or off depending on the current load of plugged device (uses Basic command class). Power thresholds and behaviour are configured using parameters 45-49. Allows to control 5 regular or multichannel devices.

### 10.2: Advanced parameters

The device allows customizing its operation to user's needs using configurable parameters.

The settings can be adjusted via the 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 the Advanced Settings of the device.

#### **Available parameters:**

1.	Remember device state				
This parameter determines how the device will react in the eve of power supply failure (e.g. power outage).					
Parame	Parameter size 1B				
<b>Default value</b> 1 (restores the state)		1 (restores the state)			
Available		<ul><li>0 - remains switched off after restoring power</li><li>1 - restores remembered state after restoring power</li></ul>			

### 2. Overload safety switch

This function allows to turn off the controlled device in case of exceeding the defined power. Controlled device can be turned back on via button or sending a control frame.

Parame	eter size	4B
Default value		0 (disabled)
Available values		0 – function disabled
		10-36800 (1.0-3680.0W, step 0.1W) – power threshold
10		I FD frame - nower limit

This parameter determines maximum active power. Exceeding it results in the LED frame flashing violet. Function is active only when parameter 11 is set to 8 or 9.

Parameter size		4B	
Default value		36800 (3680W)	
	lable ues	500-36800 (50.0-3680.0W, step 0.1W) – power threshold	
11.	11. LED frame – colour when ON		

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 parameter 10. Other colours are set permanently and do not depend on power consumption.

Parameter size	1B			
Default value	8 (depending on measured power)			
	0 – LED disabled			
	1 – White			
	2 – Red			
	3 – Green			
	4 – Blue			
Available	5 – Yellow			
values	6 – Cyan			
	7 – Magenta			
	8 – colour changes smoothly depending on measured power			
	9 – colour changes in steps depending on measured power			

12.	LED frame – colour when OFF				
This p	arameter	defines the LED colour when the device is OFF.			
Parame	eter size	1B			
Defau	lt value	0 (disabled)			
		0 – LED disabled			
		1 – White			
		2 – Red			
Avai	ilable	3 – Green			
val	ues	4 – Blue			
		5 – Yellow			
		6 – Cyan			
	,	7 – Magenta			
13.		LED frame – brightness			
This	paramet	er allows to adjust the LED frame brightness.			
Parame	eter size	1B			
Defau	lt value	100 (100%)			
		0 – LED disabled			
		1-100 (1-100% brightness)			
	lable lues	101 – brightness directly proportional to measured power			
		102 – brightness inversely proportional to measured power			

30.		Alarm configuration - 1st slot			
device s	hould rea	determines to which alarm frames and how the ct. The parameters consist of 4 bytes, three most are set according to the official Z-Wave protocol specification.			
Parame	eter size	4B			
Defaul	lt value	[0x00, 0x00, 0x00, 0x00] (disabled)			
		<b>1B</b> [MSB] – Notification Type			
		<b>2B</b> - Notification Status			
		<b>3B</b> - Event/State Parameters			
		<b>4B</b> [LSB] – action:			
Available values		0xX0 – 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 – disable LED frame, 0xFX – LED frame LAPD signal (red-white-blue)			
31.		Alarm configuration - 2nd slot			
device s	hould rea	determines to which alarm frames and how the ct. The parameters consist of 4 bytes, three most are set according to the official Z-Wave protocol specification.			
Parame	eter size	4B			
Dofaul	lt value	[0x05, 0xFF, 0x00, 0x00]			
Delaul	it value	(Water Alarm, any notification, no action)			
		<b>1B</b> [MSB] – Notification Type			
		<b>2B</b> - Notification Status			
		<b>3B</b> - Event/State Parameters			
		<b>4B</b> [LSB] – action:			
_	lable ues	0xX0 – no action on output,, 0xX1 – turn ON, 0xX2 – turn OFF, 0xX3 – turn ON/OFF continu-			

ously, **0x0X** - no action on LED frame,

LAPD signal (red-white-blue)

0x1X - LED frame blinks red, 0x2X - LED frame blinks green, 0x4X - LED frame blinks blue,
 0x8X - disable LED frame, 0xFX - LED frame

### 32. 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 significant bytes are set according to the official Z-Wave protocol specification. 4B Parameter size [0x01, 0xFF, 0x00, 0x00] **Default value** (Smoke Alarm, any notification, no action) **1B** [MSB] – Notification Type 2B - Notification Status 3B - Event/State Parameters **4B** [LSB] – action: **Available 0xX0** – no action on output, **0xX1** – turn ON, values 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) 33. Alarm configuration - 4th slot This parameter determines to which alarm frames and how the device should react. The parameters consist of 4 bytes, three most significant bytes are set according to the official Z-Wave protocol specification. Parameter size **4**B [0x02, 0xFF, 0x00, 0x00] **Default value** (CO Alarm, any notification, no action) 1B [MSB] - Notification Type 2B - Notification Status **3B** - Event/State Parameters **4B** [LSB] – action: **Available 0xX0** – no action on output, **0xX1** – turn ON, values 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		
This parameter determines to which alarm frames and how the device should react. The parameters consist of 4 bytes, three most significant bytes are set according to the official Z-Wave protocol specification.			
Parameter size	4B		
Default value	[0x04, 0xFF, 0x00, 0x00] (Heat Alarm, any notification, no action)		
	<b>1B</b> [MSB] – Notification Type		
	<b>2B</b> - Notification Status		
	<b>3B</b> - Event/State Parameters		
	<b>4B</b> [LSB] – action:		
Available values	<ul> <li>0xX0 - no action on output, 0xX1 - turn ON,</li> <li>0xX2 - turn OFF, 0xX3 - turn ON/OFF continuously, 0x0X - no action on LED frame,</li> <li>0x1X - LED frame blinks red, 0x2X - LED frame blinks green, 0x4X - LED frame blinks blue,</li> <li>0x8X - disable LED frame, 0xFX - LED frame LAPD signal (red-white-blue)</li> </ul>		
35.	35. Alarm configuration – duration		
in this parameter	efines duration of alarm sequence. When time set relapses, alarm is cancelled, LED frame and relay operation, but do not recover state from before the alarm.		
Parameter size	2B		
Default value	600 (10min)		
Available	0 – infinite		
values	1-32400 (1s-9h, 1s step) – duration		
45.	Associations - 2nd group		
This parameter determines which actions will result in sending control frames to devices associated in 2nd group.			
Parameter size 1B			
Default value	3		
	1 – Power exceeds UP threshold		
Available	2 – Power drops below DOWN threshold		
values	3 – Power exceeds UP threshold or drops below DOWN threshold		

46.	Associations – UP threshold			
		etermines upper power threshold for 2nd associmter 45). Exceeding it will result in sending value set in parameter 47.		
Ca	nnot be lo	ower than DOWN threshold (parameter 48).		
Parame	eter size	4B		
Defaul	t value	500 (50W)		
_	lable ues	100-36800 (10-3680W, 0.1W step) – power threshold		
47.	Α	ssociations – UP threshold frame value		
		defines value sent to devices in 2nd association er exceeds UP threshold set in parameter 46 (using Basic Command Class).		
Parame	eter size	2B		
Defaul	t value	255		
A :	Labla	0 – turn off		
_	lable ues	1-99 – set level		
		255 – turn on with previous level		
48.		Associations – DOWN threshold		
	This parameter determines lower power threshold for 2nd association group (paramter 45). Exceeding it will result in sending values set in parameter 49.			
Parame	eter size	4B		
Defaul	t value	300 (30W)		
	lable ues	0-36700 (0-3670W, 0.1W step) – power threshold		
49. Ass		ociations – DOWN threshold frame value		
	This parameter defines value sent to devices in 2nd association group when power drops below DOWN threshold set in parameter 48 (using Basic Command Class).			
Parame	eter size	2B		
Defaul	t value	0		
		0 – turn off		
	lable ues	1-99 – set level		
		255 – turn on with previous level		

60.	Po	ower reports – include self-consumption			
	This parameter determines whether the power measurements should include power consumed by the device itself.				
Parameter 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			
in meas	This parameter defines minimal change (from the last reported) in measured power that results in sending new report. For loads under 50W the parameter is irrelevant, reports are 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				
		efines reporting interval for measured power. Pe- e independent from changes in value (parameter 61).			
Parame	eter size	2B			
Default value 3600 (1)		3600 (1h)			
Avai	lable	0 – periodic reports disabled			
val	ues	30-32400 (30s-9h, 1s step) – time interval			
65.		Energy reports – on change			
	This parameter defines minimal change (from the last reported) in measured energy that results in sending new report.				
Parameter size 2B		2B			
Defaul	t value	10 (0.1kWh)			
Δνεί	lahle	0 - reporting on change disabled			
Available values		1-500 (0.01-5kWh, 0.01kWh step) – minimal change			

66.	Energy reports - periodic		
This parameter defines reporting interval for measured energy.  Periodic reports are independent from changes in value (parameter 65).			
Parame	Parameter size 2B		
Default value 3600 (1h)		3600 (1h)	
Available		0 – periodic reports disabled	
values		30-32400 (30s-9h, 1s step) – time interval	

# 11: Z-Wave specification

**Generic Device Class**: GENERIC\_TYPE\_SWITCH\_BINARY

**Specific Device Class**: SPECIFIC\_TYPE\_POWER\_SWITCH\_BINARY

## **Supported Command Classes**

Command Class	Version	Secure
1.COMMAND_CLASS_ZWAVEPLUS_INFO [0x5E]	V2	
2.COMMAND_CLASS_SWITCH_BINARY [0x25]	V1	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_METER [0x32]	V3	YES
14. COMMAND_CLASS_CONFIGURATION [0x70]	V1	YES
15.COMMAND_CLASS_CRC_16_ENCAP [0x56]	V1	
16.COMMAND_CLASS_NOTIFICATION [0x71]	V8	YES
17.COMMAND_CLASS_PROTECTION [0x75]	V2	YES
18. COMMAND_CLASS_FIRMWARE_UPDATE_MD [0x7A]	V4	YES
19. COMMAND_CLASS_APPLICATION_STATUS [0x22]	V1	
20.COMMAND_CLASS_SUPERVISION [0x6C]	V1	
21.COMMAND_CLASS_BASIC [0x20]	V1	YES

#### **Notification Command Class**

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

Notification Type	Event	Parameter	
Power Management [0x08]	Over-current detected [0x06/V3]		
Power Management [0x08]	Over-load detected [0x08/V3]		
System [0x09]	System hardware fail- ure with manufactur- er proprietary failure code [0x03]	MP code: 0x01 [device overheat]	

#### **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 – state of output cannot be changed by the B-button or corresponding Input	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 basic and switch binary are reject- ed, 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)	Import [0x01]	2	4
Electric [0x01]	Electric_W [0x02]	Import [0x01]	1	2

# **12: Parts compatibility**

Available FIBAR	Included		
Name	Symbol	FGWOF-011	FGWOE-011
Socket F Unit	FG-WO-AS-4002	Х	
Socket E Unit	FG-WO-AS-4003		Х
Socket F	FG-WO-PP-0010	Х	
Socket E	FG-WO-PP-0009		X
Outer Lightguide	FG-WO-PP-0004	Х	X
Shutter Unit	FG-WO-AS-4001	Х	X
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	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) selected covers\*

Required FIBAR	Socke	t type	
Name	Symbol	GIRA Type F	GIRA Type E
Socket F Unit	FG-WO-AS-4002	Х	
Socket E Unit	FG-WO-AS-4003		X
Mounting Frame FIBARO/ GIRA	FG-Wx-AS-4001	Х	Х

## Parts required for Legrand Céliane selected covers\*

Required FIBAR	Socket type		
Name	Symbol	Legrand Type F	Legrand Type E
Socket F Unit	FG-WO-AS-4002	Х	
Socket E Unit	FG-WO-AS-4003		х
Mounting Frame Legrand	FG-Wx-AS-4002	Х	х
Shutter Unit	FG-WO-AS-4001	Х	Х

## Parts required for Schneider Odace selected covers\*

Required FIBARO parts		Socket type	
Name	Symbol	Schneider Type F	Schneider Type E
Socket F Unit	FG-WO-AS-4002	Х	
Socket E Unit	FG-WO-AS-4003		Х
Mounting Frame Schneider	FG-Wx-AS-4003	Х	Х
Shutter Unit	FG-WO-AS-4001	Х	Х

<sup>\*</sup> Go to https://manuals.fibaro.com/walli-outlet/ for the list of compatible parts or contact our support team.

## 13: 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.

