

FIBARO
SMART MODULE
DOUBLE SMART MODULE


FGS-214/FGS-224

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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 can be dangerous or cause a violation of the law. The manufacturer, Nice-Polska Sp. z o.o. 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 can result in a fire or electric shock.



All works on the device can be performed only by a qualified and licensed electrician. Observe national regulations.

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




To avoid risk of electrical shock, don't operate the device with wet or moist hands.

Don't modify!



Don't modify this device in any way not included in this manual.

Other devices

 The manufacturer, Nice-Polska Sp. z o.o. will not be held responsible for any damage or loss of warranty privileges for other connected devices if the connection isn't compliant with their manuals.

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



Don't 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 isn't a toy. Keep away from children and animals!

2: Description and features

2.1: Description

The remotely operated **FIBARO Smart Module and Double Smart Module** are designed to turn electrical devices or circuits on and off.

Smart Module enables controlling one device or circuit and Double Smart Module enables controlling two devices or circuits.

The compact size of the device enables the product to be installed in the housings of other devices. The devices can be controlled either with the Z-Wave network or with buttons connected directly to them.


2.2: Main features

- Can control:
 - » lights
 - » garage doors, entrance gates (including automatic sliding gates, swing gates)
 - » sprinklers
 - » solenoid valves
 - » actuators
 - » boilers
 - » roller shutters/shades
- Works with various types of switches and buttons
- Supports the Z-Wave network Security Modes: S0 with AES-128 encryption and S2 Authenticated with the PRNG-based encryption
- Works as a Z-Wave signal repeater (all non-battery operated devices within the network act as repeaters to increase reliability of the network)
- Can 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 and a Security Enabled Z-Wave Controller must be used to fully utilize the product.

3: Specifications

Power supply	100-240 V~ 50/60 Hz or 24-30 V==
Rated load current	Smart Module (FGS-214): 6.5A Double Smart Module (FGS-224): 6A per one channel 9.5A total
Compatible load types	resistive or incandescent only
Active element	micro-gap relay μ
Maximum length of wires	3 meters
Recommended wire cross-section area	0.2 – 2.0mm ² (24–14 AWG) (depending on load current)
Operating temperature	0–35°C
Ambient humidity	0–95% RH without condensation
Radio protocol	Z-Wave (500 series chip)
Radio frequency band	868.0–868.6MHz; 869.7–870.0MHz
Max. transmitting power	+5dBm
Range	up to 50 m outdoors up to 40 m indoors (depending on a terrain and building structure)
Dimensions (Height x Width x Depth)	42.5 x 38.25 x 20.3 mm
Classification of installation and use	Automatic electrical control for use in equipment for household or similar use
Mode of operation	Type 1.C Action
Pollution degree	2
Software class	Class A
Protection against electric shock class	Class 0
Compliance with EU directives	2011/65/EU 2015/863 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 can cause risk to health, life or material damage.

- **Don't** power the device before fully assembling it in the protected environment
- Check operating/maintenance manual of the device you want to control, to make sure the connection is safe and allowed
- Connect only in accordance with the diagram
- Always use the same power source for L and IN terminals
- Check operating/maintenance manual for device you want to control to make sure the connection is correct and safe
- **Don't** connect devices which are not compliant with the specification or relevant safety standards.

Notes for figures:

S1 – terminal for the 1st button

S2 – terminal for the 2nd button

Q/Q1 – output terminal of the 1st channel

Q2 – output terminal of the 2nd channel

IN – input terminal for both channels

L – terminal for a live wire

N – terminal for a neutral wire

B – maintenance button

1 – device/system housing

2 – electrical device

4.2: Electrical connection

1. Switch off the mains voltage (disable the fuse) or disable the power supply.
2. Connect according to one of the figures below:

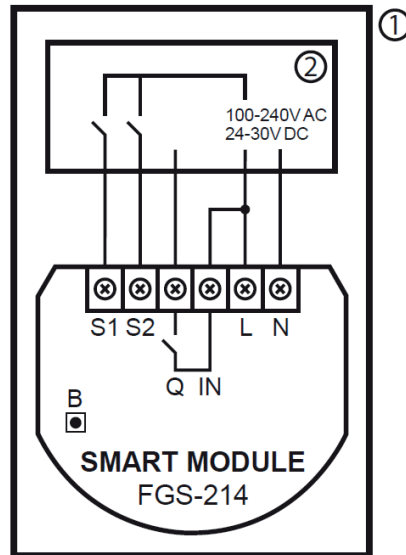


Figure 1: Example connection of Smart Module

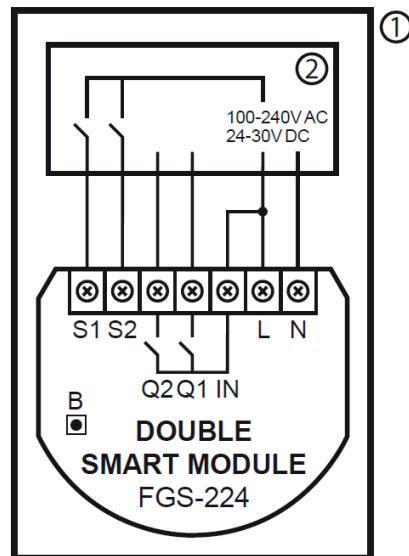


Figure 2: Example connection of Double Smart Module

3. Verify correctness of connection.
4. Tighten the terminal screws using PH1 screwdriver.
5. When the device is assembled fully, switch on the mains voltage or enable the power supply.
6. The LED light means the device is powered.
7. Add the device to the Z-Wave network (for more information, see the next chapter).

5: Adding to Z-Wave network

Adding (Inclusion) – Z-Wave device learning mode, which enables adding the device to an existing Z-Wave network.

5.1: Adding manually

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

1. Power the device.
2. Set the main controller in the (Security/non-Security Mode) add mode (for more information, see the controller manual).
3. Click quickly, three times button connected to S1 or the maintenance button.
4. If you are adding in the Security S2 Authenticated mode, input the underlined part of the device specific key (DSK), which is labeled on the bottom of the box.
5. LED starts blinking yellow, wait for the adding process to end.
6. Adding result is confirmed with the Z-Wave controller message and the LED frame:
 - **Green** – successful (non-secure, S0, S2 non-authenticated mode)
 - **Magenta** – successful (Security S2 Authenticated mode)
 - **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 is 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 (for more information, see the controller 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 a few minutes), which is signalled with yellow LED blinking.

5. Adding result is confirmed with the Z-Wave controller message and the LED frame:

- **Green** – successful (non-secure, S0, S2 non-authenticated mode)
- **Magenta** – successful (Security S2 Authenticated mode)
- **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

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



Make sure that restoring the parameters to factory defaults won't result in damaging the connected device. We recommend disconnecting the connected device first.

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

1. Power the device.
2. Set the main controller into the remove mode (for more information, see the controller manual).
3. Click quickly, three times the maintenance button.
4. LED starts blinking yellow, wait for the removing process to end.
5. Successful removing is confirmed with the Z-Wave controller message and the red LED color.

7: Operating the device

7.1: Controlling channels with inputs

Momentary switch (parameter 20 set to 0):

1x click – change the state of the channel to the opposite one

Toggle switch without memory (parameter 20 set to 1):

1x switch – change the state of the channel to the state of the switch (OFF if contacts opened, ON if contacts closed)

Toggle switch with memory (parameter 20 set to 2):

1x switch – change the state of the channel to the opposite one

i By default S1 input controls the 1st channel and S2 input controls the 2nd channel if present. It can be changed using parameters 24 and 25.

i By default outputs are set to NO (normally open). It means the contacts is opened when turned off and closed when turned on. It can be switched to NC (normally closed), which means the contacts is closed when turned off and opened when turned on using parameters 162/163.

7.2: 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 mode)
- Magenta – device added to a Z-Wave network (Security S2 Authenticated mode)
- Red – device not added to a Z-Wave network

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)
- Magenta – testing a Z-Wave network range
- Yellow – reset to factory defaults

7.3: Menu

Menu enables performing Z-Wave network actions.

To use the menu:

1. Press and hold the maintenance button.
2. LED signals adding status for 3 seconds (see 7.5: Visual indications), then it turns off for another 3 seconds.
3. Release the button when device signals desired position with colour:
 - **MAGENTA** – testing a Z-Wave network range
 - **YELLOW** – reset to factory defaults
4. Quickly click the button to confirm.

7.4: Resetting to factory defaults

Reset procedure enables you to restore the device back to its factory settings, which means all information about the Z-Wave controller and user configuration is deleted.



Make sure that restoring the parameters to factory defaults won't result in damaging the connected device. We recommend disconnecting the device first.



Resetting the device isn't a 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 with the procedure of removing described below.

1. Press and hold the maintenance button.
2. Release button when the device glows yellow.
3. Click quickly the button to confirm.
4. After a few seconds the device is restarted, which is signalled with the red LED color.

8: Z-Wave range test

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

i To make a Z-Wave range test possible, the device must be added to the Z-Wave controller. Testing can stress the network, so it's recommended to perform a test only if needed

To test the main controller range:

1. Press and hold the maintenance button to enter the menu.
2. Release button when the device glows magenta.
3. Click quickly the button to confirm.
4. Visual indicator indicates the Z-Wave network range (range signaling modes described below).
5. To exit the 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 tries to establish a routed communication, through other modules, which is signalled with the 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 re-tries to establish a direct communication with the main controller, which is signalled with the visual indicator pulsing green.
- **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 communicates at the maximum distance of the Z-Wave network. If connection proves successful it is confirmed with a yellow glow. It's not recommended to use the device at the range limit.
- **Visual indicator glowing red** - the device isn't able to connect to the main controller directly or through another Z-Wave network device (repeater).

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

9: Activating scenes

The device can activate scenes in the Z-Wave controller by sending scene ID and attribute of a specific action using the Central Scene Command Class.

By default all action are activated. Change settings of parameters 40 and 41 to disable scene activation for selected actions.

Switch	Action	Scene ID	Attribute
Switch connected to S1 terminal	Switch clicked once	1	Key Pressed 1 time
	Switch clicked twice	1	Key Pressed 2 times
	Switch clicked thrice*	1	Key Pressed 3 times
	Switch held**	1	Key Held Down
	Switch released**	1	Key Released
Switch connected to S2 terminal	Switch clicked once	2	Key Pressed 1 time
	Switch clicked twice	2	Key Pressed 2 times
	Switch clicked thrice*	2	Key Pressed 3 times
	Switch held**	2	Key Held Down
	Switch released**	2	Key Released

* Activating triple clicks disallows removing with this input.

** Not available for toggle switches.

10: Configuration

10.1: Associations

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

Associations enables:

- reporting the device status to the Z-Wave controller (using the 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 association groups reflect input operation according to device configuration. For example, turning the first channel on using button sends frame responsible for the same action.

Smart Module provides the association of 2 groups:

- **The 1st association group – “Lifeline”** reports the device status and enables assigning single device only (main controller by default).
- **The 2nd association group – “On/Off”** is used for turning the associated devices on/off reflecting input operation (uses the Basic command class).

Double Smart Module provides the association of 3 groups:

- **The 1st association group – “Lifeline”** reports the device status and enables assigning single device only (main controller by default).
- **The 2nd association group – “On/Off (1)”** is used for turning the associated devices on/off reflecting input operation for the 1st channel (uses the Basic command class).
- **The 3rd association group – “On/Off (2)”** is used for turning the associated devices on/off reflecting input operation for the 2nd channel (uses the Basic command class).

The device enables controlling 5 regular or multichannel devices per an association group, with the exception of the “LifeLine” group that is reserved solely for the controller and hence only 1 node can be assigned.

Commands sent to association groups depending on settings

Parameter 150/151	Parameter 152/153	1 click	2 click
Momentary or toggle switches with memory (parameter 20/21 set to 0 or 2)			
0, 1 or 3	–	ON if turned OFF OFF if turned ON	Double Click
2	0 or 1	ON if turned OFF OFF during countdown	Double Click
	2	ON	Double Click
Toggle switches without memory (parameter 20/21 set to 1)			
–	–	ON if turned OFF OFF if turned ON	Double Click

10.2: Advanced parameters

The device enables customizing its operation to user's needs with configurable parameters.

The settings can be adjusted using a Z-Wave controller to which the device is added. The way of adjusting them might differ depending on the controller.

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

Available parameters:

1.	Remember relays state
Description	This parameter determines the state of relays after power supply failure (e.g. power outage). For the auto OFF and flashing modes the parameter isn't relevant and the relay always remains switched off.
Parameter size	1B
Default value	1 (restore the state)
Available values	0 – relays remain switched off after restoring power 1 – restore the remembered state of relays after restoring power 2 – restore the remembered state of relays after restoring power, but for toggle switches set the same state as the current state of the switches
20.	S1 input – switch type
Description	This parameter defines as what type the device should treat the switch connected to the S1 terminal.
Parameter size	1B
Default value	0 (momentary switch)
Available values	0 – momentary switch 2 – toggle switch (contact closed - ON, contact opened - OFF) 3 – toggle switch (the device changes status when the switch changes status)
21.	S2 input – switch type
Description	This parameter defines as what type the device should treat the switch connected to the S2 terminal.
Parameter size	1B
Default value	0 (momentary switch)

Available values	0 – momentary switch 2 – toggle switch (contact closed - ON, contact opened - OFF) 3 – toggle switch (device changes status when switch changes status)
24.	Inputs orientation
Description	This parameter enables reversing operation of S1 and S2 inputs without changing the wiring. Use in case of incorrect wiring.
Parameter size	1B
Default value	0 (default)
Available values	0 – default (S1 - 1st channel, S2 - 2nd channel) 1 – reversed (S1 - 2nd channel, S2 - 1st channel)
25.	Outputs orientation
Only in Double Smart Module	
Description	This parameter enables reversing operation of Q1 and Q2 outputs without changing the wiring. Use in case of incorrect wiring.
Parameter size	1B
Default value	0 (default)
Available values	0 – default (Q1 - 1st channel, Q2 - 2nd channel) 1 – reversed (Q1 - 2nd channel, Q2 - 1st channel)
30.	Alarm configuration - 1st slot
Description	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	[0x00, 0x00, 0x00, 0x00] (disabled)
Available values	1B [MSB] – Notification Type 2B – Notification Status 3B – Event/State Parameters 4B [LSB] – action: 0x00 – no action, 0x01 – turn ON, 0x02 – turn OFF, 0x03 – turn ON/OFF continuously

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 significant bytes are set according to the official Z-Wave protocol specification.	
Parameter size	4B	
Default value	[0x05, 0xFF, 0x00, 0x00] (Water Alarm, any notification, no action)	
Available values	1B [MSB] – Notification Type 2B – Notification Status 3B – Event/State Parameters 4B [LSB] – action:	
	0x00 – no action, 0x01 – turn ON, 0x02 – turn OFF, 0x03 – turn ON/OFF continuously	
32.	Alarm configuration - 3rd slot	
Description	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	[0x01, 0xFF, 0x00, 0x00] (Smoke Alarm, any notification, no action)	
Available values	1B [MSB] – Notification Type 2B – Notification Status 3B – Event/State Parameters 4B [LSB] – action:	
	0x00 – no action, 0x01 – turn ON, 0x02 – turn OFF, 0x03 – turn ON/OFF continuously	
33.	Alarm configuration - 4th slot	
Description	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	[0x02, 0xFF, 0x00, 0x00] (CO Alarm, any notification, no action)	

Available values	1B [MSB] – Notification Type 2B – Notification Status 3B – Event/State Parameters 4B [LSB] – action: 0x00 – no action, 0x01 – turn ON, 0x02 – turn OFF, 0x03 – turn ON/OFF continuously
34.	Alarm configuration - 5th slot
Description	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)
Available values	1B [MSB] – Notification Type 2B – Notification Status 3B – Event/State Parameters 4B [LSB] – action: 0x00 – no action, 0x01 – turn ON, 0x02 – turn OFF, 0x03 – turn ON/OFF continuously
35.	Alarm configuration – duration
Description	This parameter defines duration of alarm sequence. When time set with this parameter elapses, alarm is cancelled, LED frame and relay restore normal operation, but don't recover state from before the alarm.
Parameter size	2B
Default value	600 (10 min)
Available values	0 – infinite 1-32400 (1 s-9 h, 1 s step) – duration
40.	S1 input – 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 learning mode by triple clicking.
Parameter size	1B
Default value	15 (all active)

Available values	1 – Key pressed 1 time 2 – Key pressed 2 times 4 – Key pressed 3 times 8 – Key hold down and key released
41.	S2 input – 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 learning mode by triple clicking.
Parameter size	1B
Default value	15 (all active)
Available values	1 – Key pressed 1 time 2 – Key pressed 2 times 4 – Key pressed 3 times 8 – Key hold down and key released
150.	First channel – operating mode
Description	This parameter enables choosing an operating mode for channel controlled with Q/Q1 output.
Parameter size	1B
Default value	0 (standard operation)
Available values	0 – standard operation 1 – delayed OFF 2 – auto OFF 3 – flashing
151.	Second channel – operating mode
Only in Double Smart Module	
Description	This parameter allows to choose operating mode for channel controlled with Q2 output.
Parameter size	1B
Default value	0 (standard operation)
Available values	0 – standard operation 1 – delayed OFF 2 – auto OFF 3 – flashing

152.	First channel – reaction to input change in delayed/auto OFF modes
Description	This parameter determines how the device reacts when changing state of S1 input in timed modes for the 1 st channel.
Parameter size	1B
Default value	0 (cancel mode)
Available values	0 – cancel mode and set default state 1 – no reaction, mode runs until it ends 2 – reset timer, start counting time from the beginning
153.	Second channel – reaction to input change in delayed/auto OFF modes
Only in Double Smart Module	
Description	This parameter determines how the device reacts when changing state of S2 input in timed modes for the 2 nd channel.
Parameter size	1B
Default value	0 (cancel mode)
Available values	0 – cancel mode and set default state 1 – no reaction, mode runs until it ends 2 – reset timer, start counting time from the beginning
154.	First channel – time parameter for delayed/auto OFF and flashing modes
Description	This parameter enables setting time parameter used in timed modes (delayed/auto OFF and flashing) for the 1 st channel.
Parameter size	2B
Default value	5 (0.5s)
Available values	0 – 0.1 seconds 1-32000 – 0.1-3200 seconds, 0.1s step

155.	Second channel – time parameter for delayed/auto OFF and flashing modes
Only in Double Smart Module	
Description	This parameter enables setting the time parameter used in timed modes (delayed/auto OFF and flashing) for the 2 nd channel.
Parameter size	2B
Default value	5 (0.5s)
Available values	0 – 0.1 seconds 1-32000 – 0.1-3200 seconds, 0.1s step
156.	S1 input – Switch ON value sent to 2nd association group
Description	This parameter defines value sent with Switch ON command to devices in the 2 nd association group when using S1 input.
Parameter size	2B
Default value	255
Available values	0-99 or 255
157.	S1 input – Switch OFF value sent to 2nd association group
Description	This parameter defines value sent with Switch OFF command to devices in 2 nd association group when using S1 input.
Parameter size	2B
Default value	0
Available values	0-99 or 255
158.	S1 input – Double Click value sent to 2nd association group
Description	This parameter defines value sent with the Double Click command to devices in 2 nd association group when using S1 input.
Parameter size	2B
Default value	99
Available values	0-99 or 255

159.	S2 input – Switch ON value sent to 3rd association group	
Description	This parameter defines value sent with the Switch ON command to devices in the 3 rd association group when using S2 input.	
Parameter size	2B	
Default value	255	
Available values	0-99 or 255	
160.	S2 input – Switch OFF value sent to 3rd association group	
Description	This parameter defines value sent with Switch OFF command to devices in the 3 rd association group when using S2 input.	
Parameter size	2B	
Default value	0	
Available values	0-99 or 255	
161.	S2 input – Double Click value sent to 3rd association group	
Description	This parameter defines value sent with Double Click command to devices in the 3 rd association group when using S2 input.	
Parameter size	2B	
Default value	99	
Available values	0-99 or 255	
162.	Q/Q1 output type	
Description	This parameter determines type of Q/Q1 output.	
Parameter size	1B	
Default value	0 (Normally Open)	
Available values	0 – NO (Normally Open) 1 – NC (Normally Closed)	
163.	Q2 output type	
Only in Double Smart Module		
Description	This parameter determines type of Q/Q1 output.	
Parameter size	1B	
Default value	0 (Normally Open)	

Available values	0 – NO (Normally Open) 1 – NC (Normally Closed)
162.	Lock simultaneous switching of Q1 and Q2 outputs
Only in Double Smart Module	
Description	When the lock is enabled, both outputs can't be turned on at the same time.
Parameter size	1B
Default value	0 (lock disabled)
Available values	0 – lock disabled 1 – lock enabled

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
COMMAND_CLASS_ZWAVEPLUS_INFO [0x5E]	V2	
COMMAND_CLASS_SWITCH_BINARY [0x25]	V1	YES
COMMAND_CLASS_ASSOCIATION [0x85]	V2	YES
COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION [0x8E]	V3	YES
COMMAND_CLASS_ASSOCIATION_GRP_INFO [0x59]	V2	YES
COMMAND_CLASS_TRANSPORT_SERVICE [0x55]	V2	
COMMAND_CLASS_VERSION [0x86]	V2	YES
COMMAND_CLASS_MANUFACTURER_SPECIFIC [0x72]	V2	YES
COMMAND_CLASS_DEVICE_RESET_LOCALLY [0x5A]	V1	YES
COMMAND_CLASS_POWERLEVEL [0x73]	V1	YES
COMMAND_CLASS_SECURITY [0x98]	V1	
COMMAND_CLASS_SECURITY_2 [0x9F]	V1	
COMMAND_CLASS_CONFIGURATION [0x70]	V1	YES
COMMAND_CLASS_CRC_16_ENCAP [0x56]	V1	
COMMAND_CLASS_PROTECTION [0x75]	V2	YES
COMMAND_CLASS_CENTRAL_SCENE [0x5B]	V3	YES
COMMAND_CLASS_FIRMWARE_UPDATE_MD [0x7A]	V4	YES
COMMAND_CLASS_APPLICATION_STATUS [0x22]	V1	
COMMAND_CLASS_SUPERVISION [0x6C]	V1	YES
COMMAND_CLASS_MULTI_CHANNEL [0x60] (only in FGS-224)	V4	YES
COMMAND_CLASS_BASIC [0x20]	V1	YES

Multichannel Command Class (only in FGS-224)

Command Class
Endpoint 1
COMMAND_CLASS_ZWAVEPLUS_INFO [0x5E]
COMMAND_CLASS_ZWAVEPLUS_INFO [0x5E]
COMMAND_CLASS_SWITCH_BINARY [0x25]
COMMAND_CLASS_ASSOCIATION [0x85]
COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION [0x8E]
COMMAND_CLASS_ASSOCIATION_GRP_INFO [0x59]
COMMAND_CLASS_SECURITY [0x98]
COMMAND_CLASS_SECURITY_2 [0x9F]
COMMAND_CLASS_SUPERVISION [0x6C]
COMMAND_CLASS_PROTECTION [0x75]
COMMAND_CLASS_APPLICATION_STATUS [0x22]
Endpoint 2
COMMAND_CLASS_ZWAVEPLUS_INFO [0x5E]
COMMAND_CLASS_SWITCH_BINARY [0x25]
COMMAND_CLASS_ASSOCIATION [0x85]
COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION [0x8E]
COMMAND_CLASS_ASSOCIATION_GRP_INFO [0x59]
COMMAND_CLASS_SECURITY [0x98]
COMMAND_CLASS_SECURITY_2 [0x9F]
COMMAND_CLASS_SUPERVISION [0x6C]
COMMAND_CLASS_APPLICATION_STATUS [0x22]

Basic to Binary Switch CC mapping

Basic is mapped to Switch Binary and reflects the state of the device.

Command	Value	Level	State
SET/REPORT	0 (0x00)	0%	Off
SET/REPORT	1..99 (0x01..0x63)	100%	On
SET	100-254 (0x64-0xFE)	Reserved	Reserved
SET/REPORT	255 (0xFF)	100%	On

Protection CC

Protection Command Class enables preventing the local or remote control of the outputs.


Type	State	Description	Hint
Local	0	Unprotected - The device isn't protected, and may be operated normally via the user interface.	Inputs connected with outputs.
Local	2	No operation possible – button can't change a relay state, any other functionality is available (menu).	Inputs disconnected from outputs.
RF	0	Unprotected - The device accepts and responds to all RF Commands.	Outputs can be controlled with Z-Wave.
RF	1	No RF control – command class basic and switch binary are rejected, every other command class is handled.	Outputs cannot be controlled with Z-Wave.

12: Regulations

Warranty

Simplified EU declaration of conformity: Hereby, Nice-Polska Sp. z o.o. declares that the device is in compliance with Directives 2014/53/EU and 2011/65/EU, 2015/863. The full text of the EU declaration of conformity is available at the following internet address: <https://www.fibaro.com/warranty>

Declaration of conformity

 Hereby, Nice-Polska Sp. z o.o. 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.



