

When included in the Z-Wave network, Flator Smoke Sensor tests the network communication. By default the procedure is performed a each temperature report depending on parameters 20 and 21 settings. In addition, Z-Wave network communication may tron test a performed chring waiking up. Lack of the Z-Wave network communication may be signaled by an infermittent aliann sound and visual indicator binking violet. By default sound and visual signals are disabled but you can enable it by denging values of parameters 3 and 4 exclortor XVI.

Once a Flator Smoke Sensor has reported no ZVAve network communication, it's recommended to varied up the device by clicking the B-button (if it desart stops the alarm, Z-Wave networks operation and the main controllers operation need to be verified.

The Fibaro Smoke Sensor will cancel the Z-Wave network communication alarm once communicates with the network after manual or automatic wake up.

VIII. SENSOR'S SENSITIVITY LEVEL CONFIGURATION

Optical smoke detector used in the Fibaro Smoke Sensor has 3 levels of sensitivity, compliant with EN 14604.2005. By default, the detector is set to the middle sensitivity level. Sensitivity level depends on the parameter 1 settings (modified only through the main Z-Wave controller).

## IX. RESETTING THE FIBARO SMOKE SENSOR

Resetting the Fibaro Smoke Sensor erases the device memory, including all information on the Z-Wave network and the main controller.

Fibaro Smoke Sensor reset procedure:

 Make sure the device has the battery installed.
 Press and hold the B-button for 3 seconds until visual indicator 3) Short signal will sound. glows white

Release the B-button

6) Press the B-button briefly to confirm your choice. 5) Wait until the visual indicator glows yellow, signaling entering the 4th menu option

Successful reset will be confirmed with the visual indicator changing colour to red and fading. At the same time, short beep will sound, same as at the power connection.

Please use this procedure only in the event that the system primary controller is missing or otherwise inoperable.

CAUTION Reset procedure should remove Fiharo Smoke Sensor from the Z-Wave network main controller's memory (depending on the controller's version). Removing the device from the Z-Wave network will reset Fibaro Smoke Sensor automatically.

# X. OPERATING THROUGH THE Z-WAVE NETWORK

Fig. 1 - Fibaro Smoke Sensor top view

Fibaro Smoke Sensor has a built in smoke detector and a temperature sensor, which makes it a multi channel device. In the Home Center interface it will be presented as two depending on the main controller software version

22°C

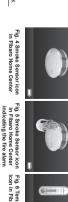


Fig. 6 Temperature Sensor icon in Fibaro Home Cente

Fbaro Smoke Sensor ignores incoming BASIC SET command and returns the status of alarm on BASIC GET command at the moment of wake up. (0 - no alarm, 255 - alarm active).

Through an association Flaaro Smoke Sensor may control another Z-Wave network device, e.g. a Dimmer, Relay Switch, Roller Shutter, RGBW Controller, Wall Plug, or a scene (scene only through the nani controller).

MECHANISM CLOSURE LOCK

Fire airm is signated by sending an appropriate airm command to devices. The Z-Wave controller and also by an intermittent source and visual indicator binking red. Once the fire airm has cassed the sensor directs whether the mixeds has actually disappeared before getting back to normal operation, i.e. performing a self test each 10 seconds and orderwing for generice of smoke.

Fibaro Smoke Sensor responds to the physical presence of smoke. Smoke presence is required for the device to react. Fibaro Smoke Sensor every 10 seconds devices for moke presence. Once the level of smoke exceeds value set in parameter 1, Fibaro Smoke Sensor triggers an alarm.

**XI. ASSOCIATIONS** 

WOTE As described in section IV the Fibaro Smoke Sensor checks for anote presence every 10 seconds in addition, the device checks for matinuction and tests the 2-VAriae network communication (see sector VII) at each wake up internal (6 hours by default) and when sending reports, provided that range test has been enabled in advanced configuration.

Compatible with any Z-Wave or Z-Wave+ Controller
 Supports protected mode (Z-Wave network security mode)
 AES-128 encryption

with

installation - simply install it in location prone to fire

Dimensions (Diameter x Height): Temperature Measuring Accuracy Measured Temperature Range Operational Humidity:

0,5°C (within 0°C - 55°C range)

Install the battery. Visual indicator will signal the Z-Wave network inclusion status (red. - device ready for inclusion, green - device included, remove firstly - see p. II.)
 Indice sure the device is located within direct range of the Z-Wave controller.
 Set the main controller into the learning mode (see main controller's operating

Quickly, triple click the B-button, located on Fibaro Smoke Sensor's casing
 Fibaro Smoke Sensor will be detected and included in the Z-Wave network

**II. REMOVING FROM Z-WAVE NETWORK** 

65 x 28 mm

**FECHNICAL INFORMATION** 

Range

Operational Temperatur

0%

- 93%

Fibaro Smoke Sensor inclusion:

. ADDING TO Z-WAVE NETWORK

0°C - 55°C structure)

-20°C to 100°C

Radio frequency

868,4 or 869,8 MHz EU; 908,4 or 916 MHz US; 921,4 or 919,8 MHz ANZ; 869 MHz RU;

device state

up to 50m outdoors up to 30m indoors (depending on terrain and building

danger occurrence, e.g. fire alarm.
 multi-channel device - device having multiple endpoints

 various device

IV. FIRE DETECTION

report command - type of Z-Wave network command holding an additional information, e.g. alam state or measured temperature.
 alarm command - type of Z-Wave network command holding a warning of

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CAUTION It's strongly recommended to perform the self-test after each battery replacement to ensure correct device operation.

control command - type of Z-Wave network command enforcing change of multi-channel association - controlling other multi-channel devices within the

Radio protocol:

Z-Wave

Compliance with Battery Type: SPECIFICATIONS

EN 14604:2005 CR 123A

 removing - Z-Wave device learning mode, allowing to remove the device from existing Z-Wave network.  $\bullet$  adding - Z-Wave device learning mode, allowing to add the device to existing Z-Wave network.

association (linking devices) - direct control of other devices within the Z-Wave

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C AUTION Fibaro Smoke Sensor is equipped with dedicated safety mechanism (Fig. 2, Fig. 3) which prevents closing the casing without installed battery.

**GLOSSARY OF TERMS** 

Programmable excess temperature warning Automatic test performed every 10 seconds

CAUTION

Built-in casing opening detector Alarm is signaled by sound, visual indicator and Z-Wave control command

3) Quickly, triple click the B-button, located on Fibaro Smoke Sensor's casing. Make sure the sensor is connected to battery.
 Set the main controller into the learning mode (see main controller's operating

**III. SENSOR INSTALLATION** 

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CAUTION Fibero Smoke Sensor is a multiple use device, however, for greater safety, it's recommended to replace the device with a new , one after a fine occurrence.

Battery powered 3 levels of sensors sensitivity Extremely

Fig. 2 - Fibaro Smoke Sensor bottom view

without the battery installed

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CAUTION

Association allows for direct communication between Z-Wave network devices. Main controller does not take part in such communication. Using this mechanism, Fibaro Smoke Sersor may communicate with other devices even when the main controller is damaged, e.g. in a fire.

CAUTON If fer alarm is triggered, but the level of smoke did not exceed concentration equal to three times of the sensitivity set in parameter 1 (the individual levels of sensitivity are primed on the device casing), user cannute source and aims trybinging the B-button (temporarily reducing the sensor's sensitivity). Visual indicator will still indicate an aims state by binking red. If smoke level concentration is greater than three times of the sensitivity set in parameter 1, make will automatically turn of an othe device will alarm fire again (using visual and audible indicator). P 

CLOSURELOCK

group. 2nd group - Smoke Alarm. Sending the BASIC SET control command once smoke is detected. Its value may be motified in advanced parameters (see section XVI). Group may control up to five order devices. may control up to five order devices.

Fibero Smoke Sensor allows for the associations of five groups. **1st group – Lifeline**. Reporting device state. Only one device - Z-Wave network controller may be set in this group. It's not recommended to modify this association

3rd group - Tamper. Sending the notification NOTIFICATION REPORT (TYPE = BURGLAR EVENT = PRODUCT COVERING REMOVED) to associated devices once

casing opening is detected. Up to five devices supporting casing opening command (NOTIFICATION REPORT) may be induced in this group **4th group – Smoke Alarm**. Sending the notification SENSOR ALARM REPORT (TYPE = SMOYE ALARM) to associated devices once smoke as detected. Up to the devices supporting SMOYE ALARM command may be induced in this group **5th group – Tampe** Sending SENSOR ALARM REPORT molitation (TYPE = GENERAL) to associated devices once casing opening is detected. Up to five devices GENERAL to associated devices once casing opening is detected. Up to five devices GENERAL to associated devices once casing opening is detected.

GENERAL) to associated devices once casing opening is detected. Up to five devices supporting SENSOR ALARM REPORT command may be included in this group.

Smoke Sensor allows for controlling 5 regular or 5 multichannel devices

group in groups 2-5 and one device in the 1st group

V. PROGRAMMABLE EXCESS TEMPERATURE WARNING

Agent from detecting presence of smoke. Fiano Smoke Sencer has an additional function or informing of exceeding the programmed temperature threaded. The function is disabled by default instances? 2 settings 2 setting 2 setting 4 setting

Fig. 3 - Fibaro Smoke Sensor bottom view with the battery installed

Fibaro

.....ververiarce inspectors should be performed regularly. Manufacturer recommends the functional and visual checks to be performed at least once a week. Functional check indudes self-test (see p. VI).

6) Test the Z-Wave network range (see p.XIV) assuring the device is within range 5) Test Fibaro Smoke Sensor's operation by performing a self-test - press & hold 4) If the sensor is already included into the Z-Wave network, wake it up by clicking the B-button. Otherwise, add the device as described in p. I.

the B-button (see p.VI)

Install the sensor's cover in desired location.
 Screw the Fibaro Smoke Sensor into the cover.

Include the device into the Z-Wave network (see p. I). Note the inclusion process may be performed ONLY in direct range of the main controller.

Installing Fibaro Smoke Sensor

CAUTION CAUTION within local code height requirements during installation of Work within local code interaction of the second precautions during installation and use tools and equipment in perfect working order installation and use tools and equipment in perfect working order its recommended to observe ladders it. Its and other obstacles its recommended to observe ladders it. Its and other obstacles

Read this manual before altempting to install the device. Failure to observe recommendations included in this manual may be dangerous or cause a violation of the law. The manufacturer, Fbar Group Sp. 2: or, will not be filter responsible for any loss or damage resulting from not following the instructions of operating manual.

NOTE Its recommended to install the sensor on the ceiling or upper portion of vali at least 40cm (2 feet) from corners and other objects Particular attention should be paid to any adjecent objects or devices which can impede smoke's access to the sensor. It's recommended to install Fabro Smoke Sensor in all rooms prove to the and in between such rooms as well.

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61 Do not install the sensor in places with high water vapor condensation, e.g. above stoves, ovens, kettles, etc. 7) The device can not be installed in places where the temperature exceeds operational values (0°C - 55°C). It's recommended to install the sensor in already decorated, painted rooms.
 It's recommended to install the sensor at least 1,5m from air conditioners.
 Do not install the sensor in direct sunlight. Keep at least 0,5m distance from The Flavo Smoke Sensor can automatically detect a maturciton. As described in section IV. Its device performs a test every 10 seconds it maturciton is beleased (e.g. damaged smoke chamber) an intermittent sound signal will start and alarm will be sent to be Z-Wave reavoir controller. On the commended to dismount the sensor Once troube alarm tabelen detected. Its econnended to dismount the sensor check the power source (replace battery)

CAUTION Viten handled carelessly or used in non-specified environment conditions, the device may not function properly. It's highly recommended to take all safety precautions to ensure safety and property protection.

When choosing location of smoke sensor, make sure the alarm sound can be easily audible in other rooms in the building.

VI. MALFUNCTION DETECTION

INSTALLATION NOTES:

check whether the Smoke Sensor is exposed to direct light.

Do not install the sensor in places prone to drafts

light sour

still If a trouble alarm is continually reported, it's recommended to replace Fibaro Smoke Sensor with new one or contact with guarantor if the product warranty is valid

Self-test may be triggered manually. 1) Males sure the down is powered by the battery 2) Press and hold the B-button. The visual indicator will gow white and the s alarm will sound. Keep holding the button. After 3 seconds from the first b sincke chamber operation will be checked. shord

The current battery level is displayed in the Z-Wave controller's interface, e.g. Home Center 2 or Home Center Like. Red battery commany that battery needs explanament, in addition, the device tasif, apart from the main controller, monitors the battery level and al two battery is signaled with a system binking vasial indicator and an intermittent sound alarm. The Flagro Smoke Sensor reports tow battery level for at least 30 days until it is completely discharged:

Triggering fire alarm and beep mean positive result and should occur within 10 seconds. No fire alarm means that the sensor is malfunctioning.

When the self-test is triggered manually the Fibaro Smoke Sensor sends control command to the Z-Wave network controller. The procedure will be performed at least as long as the B-button is not released (will be completed in up to 10 seconds after releasing B-button).

CAUTION Any service or repair must be carried out by the manufacturer. The expiry date of the device is indicated on its back.

Once a Fibaro Smoke Sensor has reported low battery level or battery discharged, it should be replaced observing the following procedure:

BATTERY REPLACEMENT PROCEDURE:

B- BUTTON AND VISUAL NDICATOR

 $\left( \right)$ 

Detach the sensor from its cover by turning the device counter-clockwise.
 Remove the flat batteny from the device. Then press and hold the B-button for 3 seconds.

3) Insert a new CR123A battery observing the polarities shown inside. Visual Indicator will signal Z-Wave network inclusion status (green - device included). red - device not included). 4) Test Fibaro Smoke Sensor's operation by performing a self-test (see p. VI). 5) Attach the device into the cover by turning clockwise

The Fbaro Smoke Sensor is designed to be placed on a wall or ceiling. Visual indicator signals fine, operating mode and is used to see if device is within the Z-Ware network. The smoke sensor is designed to operate in oriented spaces, under normal conditions (lacking smoke, dust, condensed water vapor).

NOTE The Fibaro Smoke Sensor is a Security Enabled Z-Wave Plus product and a Security Enabled Z-Wave Controller must be used in order to fully utilize the product.

The Flags Single Sensor is a universal potical Z-Wave single detector. Fire atom is signaled by avourd, visual indicator binking and by sending Z-Wave atam and control commands. The optical sensor detects smoke at an early stage of fire, often before flames appear and temperature starts to rise significantly. Necevole the device has a built-in temperature sensor, which is programmable indicator of exceeding set temperature sensor.

**!→** 

CAUTOM Council studies show that fire alarms may not awake all skeeping Council studies and that it is the responsibility of other residents to assist those who may not be awakened by the alarm sound or those who may be incapable of tably leaving the area unassist those who may be incapable of tably leaving the area unassist

OPERATING MANUAL FGSD-002-EN-A-v1.01 SMOKE SENSOR

There are various situations against which the fire alarm may not be effective, for example, 1) Fires where the valum is intimate with a faming initiated fire; for example, when a person's clothes call in fire while cooking; 2) Fires where the smoke is prevented from reacting the detector due to a closed door or other obstruction; 3) Incendary fires where the fire grows so rapidly that an occupant's egress is blocked even with properly located

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battery can decrease significantly

The wake-up interval is recommended to be set at a default value (6 hours). In case of choosing a smaller value, the lifetime of a Fibaro Smoke Sensor's battery life is at least equal to two years Depending on the Smoke Sensors internal conditions (e.g. battery discharge, device failure, etc.) and ambient conditions. The alarness are not always effective in al stuations. Smoke Sensors must be teaster regularly according to this operating manual and local code. Venitation systems, chinneys and operating vangenzous devices that can cause a fire should be regularly inspected as well.

BATTERY TIPS

CAUTION

o add an association (using Home Center interface) go to device settings and

### click the following icon \$

Select the "Advanced" tab and specify to which group and what devices are to be associated. Sending relevant information configuring associations of the to be associated as configuration gravitate up to a few hours depending on the previous configuration parameters settings. Wake up the device manually to speed up the configuration Drocess

Detach the sensor from its cover by turning the device counter-clockwise.
 Make sure the device is located within direct range of the Z-Wave network

main controller into update mode (see controller's manual) nd hold the B-button for 3 seconds. Visual indicator will glow white

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Set the

follo

Fibaro Smoke Sensor features remote software wing steps to perform device update:

update. Complete

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XV. SOFTWARE UPDATE

### XII. MENU MODE AND VISUAL INDICATIONS

The Fibaro Smoke Sensor is equipped with visual indicator for indicating and signaling sensor's operating modes and alarms. In addition the visual indicator may inform of the Z-Wave network range or exceeded temperature threshold. Visual indicator modes

Alarms indications (see p
 Added device status is

(see p. XIII)

signaled by a single green blink while inserting the 7) Successful update will be confirmed with the visual indicator changing colour to green. Incorrect update process is indicated by the visual indicator changing colour

signal will sound. 5) Reease the E-button briefly to confirm menu level choice (white visual indicator) (b) Press the E-button briefly to confirm menu level choice (white visual indicator) Update process will be signaled be the visual indicator binking cyan. The update process may take up to 10 minutes. During the update process, please do not remove the battery, will be orofilmed with the visual indicator changing colour to the process of the battery.

to red, regardless of the reason. 8) After the software update software should be performed manually (see p. VI) to make sure the device is working properly.



4) Software update procedure is signaled by blinking in cyan 5) Successful software update is signaled with glowing in green 6) Unsuccessful software update is signaled with glowing in red 7) MENU levels are signaled with glowing in certain colour.

) Removed device status is signaled by a single red blink while inserting the

o enter MENU, press and hold the B-button for 3 seconds

 $\left| \rightarrow \right|$ CAUTION Update procedure needs to be performed twice in order to update the device completely.

Visual indicator colours will change in the following sequence: WHITE - entering MENU + software update procedure, GREEN - sending device state to associated devices, VIOLET - Z-Wave range test,

Press the B-button briefly to confirm choice

YELLOW - device

rese

The Fibaro Smoke Sensor indicates particular states as follows: • Fire alarm - three short beeps and visual indicator blinking red every 1,5

XIII. ALARMS AND NOTIFICATIONS

Visual indicator publing violet - Flator Stroke Sensor communicates a the range limit I connection proves successful a valible commer with a yellow glow. It's not recommended to use the sensor at the range limit. Visual indicater glowing rot -Flator Stroke Sensor is not able to connect to the main controller directly or through automatic 724 ware relevant nodes.

with blinking in green

7) To exit Z-Wave range test, press the B-button briefly.

Visual indicator glowing green - Fibaro Smoke Sensor main controller directly.

6) Visual indicator will modes described below)

will indicate the Z-Wave network's

range

start the test

Release the B-buttor

HIGH Sensitivity
 MEDIUM Sensitivity
 LOW Sensitivity
 Default setting: 2
 Parameter size: 1 [byte]

Available settings: 0-3 0 - Evolucies in calive 1 - SMOKE ALARM command broadcast (2-rd & 4-th Association Group) nathre casing opening notification broadcast (2-rd & 5-th Association Group) inathre 2 - SMOKE ALARM command broadcast (2-rd & 4-th Association Group) inathre 3 - SMOKE ALARM command broadcast (2-rd & 5-th Association Group) active: casing opening notification broadcast (2-rd & 5-th Association Group) active: a sing opening notification broadcast (2-rd & 5-th Association Group) active: Casing opening notification broadcast (2-rd & 5-th Association Group) active: Dataut setting: (0-troadcast inactive) Parameter size: 1 (byte) all groups sent as non-secure
 2nd group sent as secure
 3nd group sent as secure
 4th group sent as secure
 5th group sent as secure Available settings: 0-99, 255 0 - turn off the device 1-99 - set the device to 1-99% 255 - set the last status 11. BASIC ON frame value BASIC ON frame is sent in cc triggering. Its value is defined by Available settings: 0-99, 255 0 - turn off the device 1-99 - set the device to 1-99% 255 - set the last status Available settings: 0 • 7. 0. all notifications disabled 1. casing opening notification enabled 2. exceeding temperature threshold notification enabled 4. lack of Z-Wave augn notification 4. lack of Z-Wave augn notifications Default setting: 0 (notifications disabled) Parameter size: 1 (potentions disabled) 10. Configuration of control frames in BASIC command class This parameter defines which frames will be sent in the 2-rd Association Group (SMOKE ALARM). The values of BASIC ON and BASIC OFF frames may be defined as described in further parameters. (4) Associations in Z-Wave network security mode This parameter defines how commands are sent in specified association groups: as secure or non-secure. Parameter is active only in Z-Wave network security mode. It doesn't apply to 1st Lifeline group. 13. Alarm broadcast A value other than 0 means that alarms are being Default setting: 0 (both frames enabled) Parameter size: 1 [byte] Available settings: 0 - 2 0 - BASIC ON & BASIC OFF enabled 1 - BASIC ON enabled 2 - BASIC OFF enabled 4. Sound notifications status This parameter allows to activate sound signals but alarms, such as Fire, Trouble and Low battery alarm. 12. BASIC OFF frame value BASIC OFF frame is sent in c Default setting: 255 Parameter size: 2 [bytes] enabled Default setting: 0 (notifications disabled) Parameter size: 1 [byte] Parameter values may be combined, e.g. 1+2+4=7, means Available settings: 0 - 7 0 - all notifications disabled 3. Visual indicator notifications status This parameter allows to activate visual indici-alarms, such as Fire, Trouble and Low battery. Available settings: 0 - 15 all devices within a Fibaro Smoke Sensor's range. Parameter size: 2 [bytes Default setting: 0 (turn off the device) enabled casing opening notification enabled
 exceeding temperature threshold notification
 lack of Z-Wave range notification Dai al la la la set the device to 1-99%
 set the last status **-**• frame is sent in case of Fire NOTE Operating in Z-Wave I disables sending alarms i by the paramete case of smoke network
 in broadc indications but does not apply to major / alarm 'k security dcast mode sent in broadcast aoes detection that all . Its mode not value is defined by and apply notification: automatically mode Fire to major i.e. to Alarn are are

Temperature value measured by the built-in temperature sensor above which excess temperature notification is sent (visual indication/sound/Z-Wave report) Available settings: 1 - 100 1-100 - (1°C - 100°C)

30. Temperature threshold

the

14. The quartete shall not cover: • mechanical damages (cracks, frectures, cuts, abrasions, physical deformations caused by impact. Jalleng or dropping the device or other object, improper use or not observing the operating manually. • damages resulting from external causes, s.g.: food storm, file, lightning, natural disasters earthquases war: oni distances force majoreurs unforeseen accidents thread disasters earthquase, war: oni distances force majoreurs unforeseen accidents thread unter damage, liquid leakage, battery split, weather conditions, sunlight, sand, moisture, high or fow tempetature, all pollution; of major converting and pollution; damages caused by maintinotioning sinkare, a tack of a computer virus, or by failure to damages caused by mainting of the pollution.

31. Excess temperature signaling interval Time interval of signaling (visual indication/s Default setting: 55 (55°C) Parameter size: 1 [byte] Ind) excess

temperature level

Available settings: **1-8640** (multiply by 10 seconds) [10s-24h] **1-8640** - [10s-24h] Default setting: **1**(10 seconds) Parameter size: **2** [bytes]

32. Lack of Z-Wave range indication interval Time interval of signaling (visual indication/sour

Time interval of signaling (visual indication/sound) lack of Z-W Available settings :-**18640** (multiply by 10 seconds) [10s-24h] **1-8640** - [10s-24h] Default setting : **18**0 (30min) Parameter size: **2** [bytes]

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CAUTION Parameters 30, 31 and 32 are associated with parameters 2, 3 and 4 settings. Their modification may have no effect if configured functionality is not activated in the corresponding parameter.

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**CAUTION** Default values of advanced parameters the device is added to the main Z-Wave s may be changed e network controller. only if

### XVII. BATTERY USE WARNING

protection rules Fibaro Smoke Sensor is a battery-powered device. Using batteries other than specified may result in explosion. Dispose of properly, observing environmental

### XVIII. GUARANTEE

4. The Guarantee is provided by FIBAR GROUP Sp. 2 on. (hereinafter "Manufacture") based in Porzan viu. Unicean 1: 60:421; Porzana, entered in the register of the National Court Register kept by the District Court in Poznan'. VIII Economic Department or the National Court Register, no. 370151; NIP770183097, RECON301505064.

date of its purchasing . The Manufacturer is responsible for equipment malfunction resulting from hysical defects (manufacturing or material) of the Device for 12 months from the

3. During the Guarantee privid, the Manufacturer shall remove any defeets, free of charge, by repaining or replacing (at the sete discretion of the Manufacturer) any defective components of the Duvice with new or reginerated components, india are free of defects. When the repair impossible, the Manufacturer reserves the night or replace the device with a new or regenerated one, which shall be free of any defects and its condition shall not be worse than the original device owned by the construction.

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When the guarantee claim form is submitted correctly, a representative of the Authorised Guarantee Service (hereinafter as "AGS") shall contact the Customer.

 The faulty device shall be provided by the Customer with complete equipment and documents proving its purchase. standard

shall not be exter

20. Temporature report interval 20. Temporature imporature reports. The interval between consecutive temporature reports. Report is sent when new imporature value is different from the one previously reported -according to the set hysteresis (parameter 21). Temperature reports can be also sent as a result of poling.

Available settings: 0, 1-8640 (multiply by 10 seconds) [10s-24h] 0 – reports inactive

11. Costs of delivering the faulty device shall be borne unjustified service calls, the Service may charge the expenses and handling costs related to the case.

defect of the Device

Inequarties document is not valid or there is no proof of purchase.
Ine guarantes document is not valid or there is no proof of purchase.
The Manufacturer shall not be liable for damages to property caused by deficitly device. The Manufacturer shall not be liable for indirect, inclendar, speal, consequential or purble damages, or for anyos.
The Manufacturer shall not be benefits, clearing by third parties and any property damage or personal injuries anising from or related to the use of the benefits.

sound) lack of Z-Wave range

update the software as recommended by the Maufachurer.
dranges relating form: surgers in the power and/or ideomnuturation network improves connection to the girld in a manner increasistent with the operating manual or from connecting other devices not recommended by the Maufachurer.
dranges caused by operating to reform the device in enterney devices conditions in high hum/dity. (Act too low interacting the reflection is the operating manual or increasing the conditions the operating the device in enterney devices conditions in high hum/dity. (Act too low interacting the the operating the Maufachurer.
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15. The scope of the guarantee repairs shall not include periodic maintenance and inspections, in particular cleaning, adjustments, operational checks, correction of errors or parameter programming and other activities that studie be performed by the user (Buyer). The guarantee shall not cover natural wear and tear of the Device and its components listed in the operating manual and in technical documentation as such elements have a defined operational line.

rights wher

17. This guarantee shall not exclude, limit or suspend the Customer provided product is inconsistent with the purchase agreement. 16. If a defect is not covered by the guarantee, the Manufacturer reserves the right to remove such defect at its sole discretion, repairing the damaged or destroyed parts or providing components necessary for repair or replacement. n the

This Device may be used with all devices certified with Z-Wave certificate and should be compatible with such devices produced by other manufactures. Any device compatible with Z-Wave may be added to Fibaro system

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PLUS FIBAR GROUP FIBARO

In case of any technical of your country. contact customer

service centre ir

CERTIFICATE 1438-CPR-0403 Notified certifying body No 1438 Smoke alarm device FGSD-002 European harmonised standardc1 4604-2005/AC:2009 Declaration of performance No DWU001/015/FG/15 Fibar Group Sp. z o.o. ul. Lotnicza 1, 60-421 Poznań

4. In special cases, when the device cannot be replaced with the device of the same type (ag. the device is no longer available in the connected offer) the same type (ag. the device is no longer available in the connected offer) the flavoration of the faulty one. Such activity shall be considered as fulfilling the obligators of the Mandacurer. The biandacurer shall not retund connect pad for explanations of the faulty one. Such activity shall be considered as fulfilling the obligators of the Mandacurer. The shall be available on the faulty of the obligators of the Mandacurer. The shall be available on the faulty of the obligators of the Mandacurer. The shall be available on the faulty of the obligators of the Mandacurer. The shall be available on the faulty of the faulty of the faulty of the faulty one. Such activity is the faulty of the faulty of the obligators of the Mandacurer. The Mandacurer shall not retund connect pad for the faulty of the obligators of the Mandacurer. The Mandacure shall not the faulty of the obligators of the Mandacure is the faulty of the faulty of the faulty of the obligators of the Mandacure is the faulty of the faulty of the faulty of the obligators of the Mandacure is the faulty of the faulty of the faulty of the obligators of the Mandacure is the faulty of the faulty of the faulty of the obligators of the Mandacure is the faulty of the faulty of the faulty of the obligators of the faulty of the obligators of the faulty of the obligators of the faulty of th

the device.

authorization. When the guarantee claim form is submitted correctly, the Clustomer shall receive the claim confirmation with an unique number (Return Merchandise Authorization -RNM).

6. The daim may be also submitted by telephone. In this case, the call is recorded and the Customer shall be informed about thy a consultant before submitting the daim. Immediately after submitting the claim, the consultant shall provide the Customer with the claim number (RMA-number).

8. Defects revealed within the guarantee period shall be removed not later than 30 days from the date of delivering the Device to AGS. The guarantee period shall be extended by the time in which the Device was kept by AGS.

values may be combined, e.g. 1+2=3 means

that 2nd & 3rd group are

10. Parts replaced under the guarantee are the property of the Manufacturer. guarantee for all parts replaced in the guarantee process shall be equal to guarantee period of the original device. The guarantee period of the replaced 1 the

by the Customer. Customer with t travel

 AGS shall not accept a complaint claim only when:
 the Device was misused or the manual was not obsen
 the Device was provided by the Customer incomplete, nameplate, Ned

 It was determined that the fault was caused by other reasons than a material or without accessories or

r (hysteresis).

21. Temperature report hystenesis The temperature report will only be sent (there is a difference in temperature v from the previous value reported, defined in this perameter (hystene temperature reports can be also sent as a result of polling. Available settings: 1-40 (no. 1/rC steps) 1-100 - (multiply by 0, 1) [0, 1/C - 10/C]

that all notifications are Default setting: 10 (1°C) Parameter size: 1 [byte]

1-8640 - [10s-24h] Default setting: 1 (10 seconds) Parameter size: 2 [bytes]

Available settings: 0-3 0- all notifications disabled 1- casing opening notification enabled 2- exceeding temperature threshold notification enabled Default setting: 0 (notifications disabled) Parameter size: 1 [byte] Parameter values may be combined, e.g. 1+2=3, means 2. Z-Wave notifications status This parameter allows to activate ex notifications sent to the main controller. excess temperature and/o casing opening

CAUTION: During the Z-Wave network range test, F-baro Smoke Sensor is not detecting fire. Device resumes previous operation mode once the Z-Wave network range rest has been finished. Z-Wave range test may be enabled only by user.

2: Vave range tester signafing modes: Visual indicator puteling green. Fears Smoke Sensor attempts to establish a direct communication with the main controller. If a direct communication attempt fails, sensor will try to establish a outled communication, through other modules, which will be signaled by visual indicator pulsing vettors. The Fibaro Smoke Sensor has a bull in Z-Wave network main controller's range tester. Fichwiths leiven instructions to lest the main controller's range: 1) Make sure the sensor is powered. 2) Press and hold the B-bull of a sound. Visual indicator praking validaw. Fibro Schole Sensor trets to establish a noted communication with the main controls through other modules. Visual indicator glowing validar. Fibaro Stroke Serior communicates with the main controller through the other modules. After 2 seconds the sensor will retry to establish a direct communication with the main controller, which will be signated exercise (high priority)
I-ow battery at am-to be ablery at am-seconds (normal priority)
For the priority of the priority o Once the indicator glows white, release the B-button. Visual indicator will then start changing colours in sequence. Each colour means different MENU level. Transitions between the MENU levels will be signaled with a short beep as well. ) Wait until the visual indicator glows violet, and then press the B-button briefly to communicates with the (range signaling Wale up interval is specified in seconds. At each wale up Snoke Sensor communicates with the main controls truth wale up at defined the interval and sphare if reessary. The Snoke Sensor will wale up at defined the interval will AUWXS by to communicate with the main controlser. After each flated communication alternity is easier will dery to establish controlser. After each flated communication alternity is easier will dery to establish controlser. After each flated communication alternity is easier will dery to establish controlser. After each flated communication alternity is being the truth of the main controlser. After each flated communication alternity is the truth of the sensor will dery to establish and controlser after (a) sensor will dery to establish control and the topgened. Longer that here are an each of the subset of and thus a longer that letter life. The Zaviere arrays after minimum at the topgened competition and thus a longer that the first successful control control and a subset of the first successful control controls and the set of automatical, after first successful control control and per valide up interval value reason of after a server to truth as control controls. and thus a longer battery life. The Z-Wave re automatically, after first successful connection. Ch does not affect alarms or trouble signals operation. Fibaro Smoke Sensor sensitivity There are 3 keyels of sensitivity to smoke presence. Level 1 means sensitivity. Rising the parameter value bovers the sensitivity to smoke valiable settings: 1 - 3 4 Luto Location. Default setting: 21600 (21600s = 6h) Available WAKE UP IN TERVAL: (3 bytes) **XVI. ADVANCED CONFIGURATION** •  $\left| \rightarrow \right|$  $\rightarrow$ **--**• CAUTON Setting to 0 disables sending Wake Up Notification frame. Wake up may be still performed manually by a single B-button click or by sending Node Info frame (triple click the B-button). ings: 0, 4200 - 65535 (4200s - 65535s) NOTE If azameter 2 value responsible for activation of casing opening notification has been set to active mode, please consider deactivating it for the upgrade procedure duration. NOTE Update will CAUTON Software update may be enabled only by user. During the update Fibaro Smoke Sensor does not detect fire. Once the software update is completed the device resumes normal operation. CAUTION If the sensor has not completed the self-test successfully after the software update, please try to perform the test again. After two consecutive self-test attempts has failed, Fabra Smoke Sensor is considered to be faulity and should be subject to service procedure. Controllerst activating t manual). If update fails or update time exceeds 10 minutes, please remove the battery, press and hold the B-button for 3 seconds, instal the battery again and repeat an update procedure. If that does not work please contact our tech support team. CAUTION the not be performed if battery level is low n various r software manufacturers can have different ways of pupdate procedure (see controller's s the highest e presence. Default setting: 15 (all groups sent as secure) Parameter size: 1 [byte] sent as secure.

# Lack of Z-Wave range - short beep and visual indicator blinking violet diode once per specified time interval (parameter 32 - 30 minutes by default) (low

 Except Fire, Low battery and Trouble alarm, the other notifications are by default disabled. Opened casing detection - short beep and visual indicator blinking white

Fibaro Smoke Sensor automatically cancels fire alarms sent to the main Z-Wave network main controller and associated devices as well.
 The casing opening notification cannot be cancelled through MENU.

XIV. Z-WAVE RANGE TEST

If more than one alarm is triggered, the alarm with the highest priority is