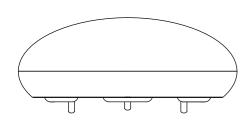
www.fiharo.com

© 2014 Fibar Group Sp. z.o.o. All rights reserved Distributed by Fibaro 1040 East Lake Ave, Glenview, IL 60025, USA



OPERATING MANUAL FLOOD SENSOR FGFS-101-USA-A-v1.00

Fibaro Flood Sensor is a universal 7-Wave compatible flood and temperature sensor. Device can be battery (ca. 2 years battery life) or VDC powered (12 or 24 VDC). Flood alarm is sent to the Z-Wave network devices or additionally to any alarm system controller, through opening a NC (Normally Closed) contact.

The device has built in temperature sensor, monitoring temperature of e.g. floor Fibaro Flood Sensor is designed to be placed on the floor or on a wall with a flood sensor probe extended by connected wire. The device has built in LED indicator and acoustic alarm. In addition, the sensor is equipped with a tilt sensor reporting tilt or movement to the main controller e.g. when someone has taken the Sensor from its original location, LED diode signals flood, operating mode or the Z-Wave network communication range. Fibaro Flood Sensor is sink-proof, which means it drifts on the water surface and keeps on sending alarm signal in case of

SPECIFICATIONS 12 - 24 VDC Power Supply CR123A Battery Type: Power Consumption (at VDC operation): 0.4W Output terminals maximum current 25mA carrying capacity (ALARM NC, TAMP NC): 24VDC / 20VAC Maximum voltage at output terminals:

Radio protocol

Operational Temperature:

Measured temperature range:

Temperature measuring accuracy:

Dimensions (Diameter x Height):

Compatible with any Z-Wave network controller

battery serves as an emergency power source

Radio frequency 868,4 MHz EU;

908,4 MHz US 921,4 MHz ANZ 869.2 MHz RU:

7 - Wave

0 to 40°C*

-20°C to 100°C

72 x 28 mm

0.5°C (within 0 - 40°C range)

up to 50m outdoors

(Depending on terrain and building structure)

* Operational temperature in VDC powering mode: -20°C to 70°C

· May be connected to any alarm system (potential free output terminal),

· Extremely easy installation - simply put on a surface prone to flooding,

· May be installed anywhere - flood sensor's contacts extended with a wire

. Battery or VDC powered. When connected to an external, VDC power source, the

. Theft protection - tilt is reported to the Z-Wave network or alarm system's main

• Two operating modes - flood / temperature sensor or just a temperature sensor

3) Triple click TMP button.

range (see main controllers operating manual). 2) Set the main controller into the learning mode. Fibaro Flood Sensor will be detected and included

III. Z-WAVE NETWORK EXCLUSION

Complete the following steps to exclude a Fibaro Flood Sensor from the Z-Wave

I. GENERAL INFORMATION ABOUT FIBARO SYSTEM

Fibaro is a wireless system, based on Z-Wave technology, Fibaro provides many

advantages when compared to similar systems. In general, radio systems create a

direct connection between the receiver and transmitter. However, the radio signal is weakened by various obstacles located in its path (apartment walls, furniture, etc.) and in extreme cases it fails to transfer required data. The advantage of

Fibaro System is that its devices apart from being transmitters and signal

receivers, also duplicate signal. When a direct connection path between the

transmitter and the receiver cannot be established, the connection may be achieved through other intermediate devices.

Fibaro is a bi-directional wireless system. This means that the signal is not only sent to the receivers but also the receivers send the confirmation of its reception. This operation confirms their status, which checks whether they are active or not.

Safety of the Fibaro System transmission is comparable to the safety of

Fibaro operates in the free bandwidth for data transmission. The frequency

depends on radio regulations in individual countries. Each Fibaro network has its

own unique network identification number (home ID), which is why it is possible to co-operate two or more independent systems in a single building without any

Although Z-Wave is guite a new technology, it has already become recognized and

officially a binding standard, similarly to Wi-Fi. Many manufacturers in various

industries offer solutions based on Z-Wave technology, guaranteeing their compatibility. This means that the system is open and it may be extended in the

Fibaro generates a dynamic network structure. After Fibaro System is switched on.

the location of its individual components is automatically updated in real-time

through status confirmation signals received from devices operating in a "mesh"

transmission in data bus wired systems.

future. Find more information at www.fibaro.com.

. INCLUSION - the device sends out a Node Info frame, which

• EXCLUSION - remove the device from the Fibaro System

II. Z-WAVE NETWORK INCLUSION

Including the Fibaro Flood Sensor using auto inclusion mode:

5) Fibaro Flood Sensor will be detected and included.

inclusion procedure.

Sensor has been connected to a DC power supply

makes it possible to add it to the Fibaro System (HC 2 or HC Lite),

ASSOCIATION - controlling other devices included in the Fibaro System.

• Multi Channel Association - controlling other multi-channel devices included

Use TMP button to include the Fibaro Flood Sensor into the 7-Wave network. In

addition, the device may be included into the Z-Wave network in auto inclusion mode, at connecting a DC power source (mode active only after the built in battery

1) Make sure a DC power source is disconnected and the sensor is located within

3) Set the main controller into the learning mode (see a main controller's operating

4) Connect a DC power source to include the Fibaro Flood Sensor into the Z-Wave

To deactivate auto inclusion mode, press TMP button once, after the Fibaro Flood

Make sure the sensor is located within the Z-Wave network's main controller's

1) Connect a DC power supply to the Fibaro Flood Sensor or insert a battery.

In case the Sensor is not detected, proceed to the manual

inclusion (described below) or reset the Sensor and repeat auto

direct communication with the main controller's range. The battery must be

interference.

GLOSSARY OF TERMS:

has been disconnected).

removed

2) Open the cover

1) Remove sensor's cover.

2) Make sure sensor is connected to a battery or a DC power supply.

3) Set a main controller into learning mode (see main controllers operating

4) Triple click TMP button, located inside Flood Sensor's casing

TECHNICAL INFORMATION IV. SENSOR'S INSTALLATION

- 2) Include into the Z-Wave network (see pt. II).
- 3) Place sensor onto a surface prone to flooding. All three electrodes underneath the device should evenly touch the surface.
- 4) If the sensor is to be DC powered, drill holes in it's casing and connect wires
- observing the wiring diagram no.2.
- 5) Close sensor's casing.

After completing installation it's recommended to test sensor's operation by placing the entire sensor or it's probes' extension wire onto water surface.



The Sensor detects resistance (under 4MOhm) between electrodes 1 and 3 1 and 2 (according to scheme no 4) and electrodes connected to contacts (SENS1 and SENS2).

Contacts SENS1 and SENS2 are dedicated to flood detection only. Do not connect external voltage.



When changing the Sensor's location, it's recommended to wake up the device and reconfigure the Z-Wave network by triple clicking the TMP button.





The TMP button has two functions:

1) Including / Excluding the device into / from the Z-Wave network 2) Tamper contact for II-nd Association Group. When a sensor is included into the Z-Wave network, case opening alarm may be activated (according to parameter 74 settings).

V. POWERING MODE INFORMATION

There are two powering modes for the Fibaro Flood Sensor. By default it's powered by a factory included battery. In addition it can work with a constant current, after connecting a 12 / 24 VDC power supply to +12 and GND terminals (see diagram no 2) Powering mode configuration is carried out automatically while a sensor is being included into the Z-Wave network. When battery powered, a Fibaro Flood Sensor communicates with a Z-Wave network main controller periodically Detected alarms are sent immediately, but configuration parameters and associations settings only at specified wake up intervals, or at a manual wake up (TMP triple click). In DC powering mode, configuration and associations parameters are sent when necessary, and in addition a sensor serves as a Z-Wave signal repeater.

- Switching to a constant current powering mode:
- Exclude a sensor from the Z-Wave network.
- 2) Connect constant current power source (12 / 24 VDC) to +12 and GND

terminals observing wiring diagram no.2.

3) Include the Fibaro Flood Sensor into the Z-Wave network

In constant powering mode a sensor may operate without a battery. Installing a battery is recommended though, as it will serve as an emergency power source. When constant power fails, sensor will automatically shift to an emergency mode. All reports, including flood and temperature, will be sent immediately, but it will not be possible to modify the configuration or association settings until constant power returns. If a sensor served as a signal repeater for other Z-Wave devices, in emergency mode signal repeating function will be deactivated



Fibaro Flood Sensor will automatically exit emergency mode once 12/24 VDC at +12 and GND terminals is detected (according to diagram no.2) and the device wakes up after detecting an event e. flood alarm, temperature report, tilt, or manual wake up using TMP button

BATTERY TIPS



Fibaro Flood Sensor's battery life is ca. 2 years at factory default settings. The current battery level is displayed in a Home Center 2 interface. Red battery icon means a battery needs replacement. In order to avoid triggering tamper alarm while replacing the battery. II-nd association group's associations must be deleted, and Sensor's parameters' configuration set to default.

Alternatively, the Sensor may be powered by VDC power source (12 / 24 VDC in accordance with a wiring diagram no.2) - in such a configuration, a battery will serve as an emergency power

Mounting screws shown in a diagram no.3 are not included in the package. Choose a screw type depending on the building material it is being attached to.

DIAGRAMS' DESCRIPTION:

+12V - 12 / 24 VDC positive terminal

-GND - negative (ground) terminal

ALARM NC - potential-free flood sensor terminals (for wired systems) TAMP NC - potential-free tamper terminals (for wired systems)

SENS1, SENS2 - flood sensor electrodes' terminals



ALARM NC and TAMP NC connectors may be used as EOL protective loop's terminals.

VI. FIBARO FLOOD SENSOR RESET

Reset procedure deletes EPROM's memory, including all information on the 7-Wave network and the main controlle

Fibaro Flood Sensor's reset procedure:

- 1) Make sure the Sensor is powered. 2) Press and hold a TMP button for 15 - 20 seconds LED indicator glows yellow to confirm entering 4th sub-menu.
- 3) Release the TMP button 4) Click the TMP button, once.

The LED indicator glowing red and then turning off will confirm a successful reset Reset completion will be confirmed by an acousic signal, same as at the power source connection



Reset procedure doesn't remove the Sensor from the Z-Wave network's main controller memory. Prior to reset, a sensor must be deleted from the Z-Wave network.

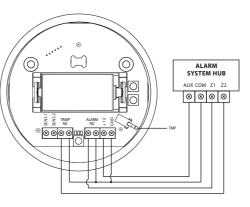


Fig. 1 - Connection with alarm system

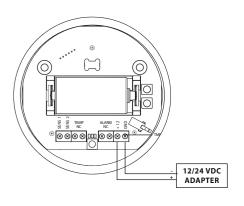


Fig. 2 - Connection to a constant power source

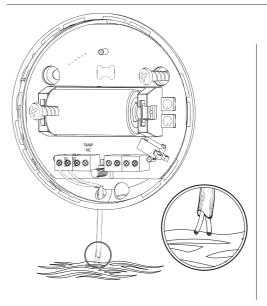


Fig. 3 - Flood sensor's contacts extended with a wire

Fig. 4 - Probes marking

VII. OPERATING THROUGH THE Z-WAVE NETWORK

Fibaro Flood Sensor has two sensors built in - flood and temperature sensors meaning it's a multichannel device. In the Z-Wave network's main controller the Sensor will be shown as two devices



Fig. 5 Flood Sensor icon in HOME CENTER 2

VIII. ASSOCIATIONS

Through an association Fibaro Flood Sensor may control another Z-Waye network device, e.g. a Dimmer, Relay Switch, Roller Shutter, RGBW Controller, Wall Plug, or a scene (scene only through the Home Center 2 main controller).



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

Fibaro Flood Sensor allows for the associations of three groups.

1-st Association Group is assigned to the device status - sending the BASIC SET default) or ALARM control frame to the associated devices.

2-nd Association Group is assigned to a TMP button and tilt sensor - ALARM GENERIC control frame will be sent to the associated devices in case a TMP button is released or a tilt sensor triggered (depending on parameter 74 settings)

3-rd Association Group reports the device status and allows for assigning single device only (the main controller by default - the device reports its status to the main controller). Fibaro Flood Sensor allows for controlling 5 regular and 5 multichannel devices per an association group, out of which 1 field is reserved for the Z-Wave network main

To add an association (using Home Center 2 interface) go to device settings and click the

following icon:

Select the "device options" tab. Then specify to which group and what devices are to be associated. Sending relevant information to devices that have been added to association groups may take even a few hours depending on configuration parameters' settings

IX. LED VISUAL SIGNALS AND SETTINGS

Fibaro Flood Sensor is equipped with a LED diode, signaling sensor's operating modes and alarms. In addition the LED indicator may inform of the Z-Wave network range and the current temperature.

LED indicator signaling modes:

1) Flood alarm is signaled with alternating white and blue light.

2) In battery powering mode, with parameter no.63 set to 1, LED indicator will periodically

show temperature readouts (depending on parameters 50, 51, 61 and 62 settings) 3) In constant powering mode, the current temperature readouts will be continuously signaled with a colour depending on the parameters 50, 51, 61 and 62 settings.

4) Currently chosen MENU position is signaled with an illumination colour.

Press and hold the TMP button for at least 3 seconds to enter MENU. Inside MENU, each of the positions will be signaled by another LED colour.

Connect while observing wiring diagram shown in this manual only. Incorrect wiring may be dangerous or result in the device

WHITE - entering MENU confirmation. GREEN - cancel alarm for associated devices PINK - Z-Wave network's range test, YELLOW - sensor reset.

X. CANCEL ALARM FOR ASSOCIATED DEVICES

It's possible to cancel alarm for associated devices simply by entering MENU -

XI. Z-WAVE RANGE TEST

Fibaro Flood Sensor has a built in the Z-Wave network main controller's range tester. Follow the following instructions to test the main controller's range:

- 1) Press and hold a TMP button for 10 15 seconds, until a LED indicator colour changes to violet.
- 2) Release the TMP button.
- 3) Click the TMP button.
- LED indicator will signal the Z-Wave network range (see description below).
- 5) To exit the Range Tester click the TMP button.

Z-Wave Range Tester signaling modes

LED Indicator pulsing green - Fibaro Flood Sensor attempts to directly communicate with the main controller. If the direct communication attempt fails, the sensor will try routed communication, through other devices, which will be signaled with LED Indicator blinking yellow.

LED Indicator glowing green - Fibaro Flood Sensor directly communicating with

LED Indicator pulsing vellow - Fibaro Flood Sensor tries to establish routed connection with the main controller, through intermediary devices.

LED Indicator glowing yellow - Fibaro Flood Sensor communicates with the main controller through other, intermediary devices. After two seconds the Sensor will retry to directly connect to the main controller, which will be signaled with the Indicator pulsing green.

LED Indicator pulsing violet - Fibaro Flood Sensor communicates at the range limit. If connection proves successful it will be confirmed with a yellow glow. It's not recommended to use the sensor at the range limit.

LED Indicator glowing red - Fibaro Flood Sensor unable to connect to the main controller directly or through another Z-Wave network nodes

XII. SENSOR OPERATION WARNING

By default, flood sensor's insensitivity is set to 1 second, which means flooding will be reported one second after it's been detected.

Tilt tamper is insensitive to little vibrations and turns. After its activation insensitivity is turned off for 15 seconds. After that, each Sensor's movement will trigger audible alarm, consisting of 3, brief acoustic signals

XIII. BATTERY USE WARNING

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

XIV. ADVANCED CONFIGURATION

Wake up interval (battery mode)

Available settings: 0 or 5 - 86399 (in seconds, 5 s. to 24 hours)

Default setting: 4 000 (each 66 minutes)

Defines a time period, in seconds, by which a Flood Sensor will perform a "Wake up" instruction - communicate with main controller, update parameters, update software. Flood Sensor will wake up each defined time interval and will always attempt to connect with the main controller, without retrying if connection fails (thus preventing a battery from discharging when the Sensor is used at the range limit, in case of the main controller's breakdown, or in case the sensor is taker away from the main controllers range). This parameter is relevant in case of battery operation - higher Wake up interval means the Sensor communicates less often saving a battery.

After successful communication attempt, a sensor will go into standby mode. update parameters or will enter a software update mode.

After failed communication attempt, a sensor will go into standby mode until another time interval will have elapsed.

1. Alarm cancellation delay

Delays flood alarm cancelation for the device after flooding has ceased.

Available settings: 0 - 3 600 (in seconds, each 1s) Default setting: 0 (no delay, immediate alarm cancelation)

Parameter size: [2 bvtes]

Determines time period, in seconds, by which a Flood Sensor will retain the flood state after the flooding itself, has ceased. Sensor will keep on reporting flooding to the main controller. This parameter settings do not affect acoustic and visual

alarms, which turn off immediately after flooding ceases. 2. Acoustic and visual signals On / Off in case of flooding

The parameter allows for LED indicator and acoustic alarm deactivation in case of

Available settings:

- 0 acquistic and visual alarms inactive 1 - acoustic alarm inactive, visual alarm active
- 2 acoustic alarm active, visual alarm inactive
- 3 acoustic and visual alarms active

Default setting: 3

Parameter size: 1 [bvte]

Changes in this parameter settings allow for increasing a battery life. Settings changes will not affect the Sensors communication with the main controller commands to association groups, alarms and reports will still be sent.

5. Type of alarm frame sent to 1-st association group (FLOOD)

Available settings: 0 - ALARM WATER command frame 255 - BASIC SET command frame

Parameter size: 1 [hvte]

The parameter determines a type of command frame sent by the Sensor in case flooding has been detected or cancelled.

7. Forced dimming level / roller blind opening level, when sending turn on / open command to 1-st association group devices

In case of alarm frames, alarm priority is determined

Available settings: (1-99) or 255

Default setting: 255 Parameter size: 1 [bvte]

The value of 255 allows for turning a device on. In case of a Dimmer it means turning it on with the last memorized state, e.g. Dimmer set to 30% and turned off. turned on again using 255 command is turned on with last state i.e. 30%.

9. Alarm cancelling or turning a device off (Basic) command frame

Allows for deactivating device turn off and alarm cancellation functions for the devices assigned to 1-st association group (1 byte).

Setting the parameter's value to 0 results in stopping BASIC SET = 0 or ALARM WATER = 0 control frames from being sent. After sending flood alarm report the device will keep on reporting flooding after the flooding itself has ceased. Such a state can be cancelled by choosing alarm cancelation from the MENU, marked with green LED colour.

Available settings:

0 - alarm (flooding) cancellation inactive

1 - alarm (flooding) cancellation active Default setting: 1

Parameter size: 1 [byte]

10. Temperature measurement interval

Time interval in seconds, between consecutive temperature measurements done by built in temperature sensor. New temperature value is reported to the main controller if it differs from the previously measured by hysteresis (defined in parameter 12).

Available settings: 1 - 65535 (in seconds) Default setting: 300 (5 minutes)

Parameter size: 2 [bytes]

The parameter determines time interval, in seconds, at which a Flood Sensor measures and reports ambient temperature and battery level.

If a temperature value will differ from previously reported by a value determined in parameter 12 (e.g. P12 = 50, i.e. temperatures differ by 0.5oC), new temperature value will be reported. If a battery level changes, the device will report a battery status change - Battery Report.

The parameter is relevant when using a Flood Sensor in a battery power mode longer time interval means less frequent communication resulting in extended battery life.

After consecutive FAILED and SUCCESSFUL communication attempts, the Sensor will go to standby mode.

12. Temperature measurement hysteresis

Determines a minimum temperature change value (insensitivity level), resulting in a temperature report being sent to the main controller, according to the Parameter 10 settings

Available settings: 1 - 1 000 (each 0,01oC) Default setting: 50 (0.5°C)

Parameter size: 2 [bytes]

13 Alarm BROADCAST

Value other than 0 means alarms are sent in BROADCAST mode (with a priority over other communicates), to all devices within the Fibaro Flood Sensor's range.

Available settings:

- 0 broadcasts inactive
- 1 flood (1-st Association Group) broadcast active, tamper (2-nd Association
- Group) broadcast inactive
- 2 flood broadcast inactive, tamper broadcast active 3 - flood broadcast active tamper broadcast active

Default setting: 0

Parameter size: 1 [bvte]

50. Low temperature alarm threshold

Available settings: - 10 000 to +10 000 (each 0,01°C)

Default setting: 1 500 (15,00°C) Parameter size: 2 [bvtes]

The parameter stores a temperature value, below which LED indicator blinks with a colour determined by a Parameter 61 settings. By default the LED indicator

51. High temperature alarm threshold

Available settings: - 10 000 to +10 000 (each 0 01°C)

Default setting: 3 500 (35°C)

Parameter size: 2 [bvtes]

The parameter stores a temperature value, above which LED indicator blinks with a colour determined by the Parameter 62 settings. By default the LED indicator hlinks red



The main controller does not interpret negative numbers as decimals. That's why read value may be different than entered

Decimal	Hexadecimal (U2)	Value in main controller
32767	0x7FFF	32767
1	0x0001	1
0	0x0000	0
-1	0xFFFF	65535
-10000	0xD8F0	55536
-32768	0x8000	32768

61. Low temperature alarm indicator colour

Parameter stores RGB colour value. Available settings: 0 - 16777215 Default setting: 255 (blue 0x000000FF) Parameter size: 4 [bytes]



NOTE

A main controller interprets colours as a sum of it component colours value. Each colours value is a number from 0 to 255.

Indicated colour = 65536 * RED value + 256 * GREEN value + BLUE value

62 High temperature alarm indicator colour

Parameter stores RGB colour value. Available settings: 0 - 16777215 Default setting: 16711680 (red 0x00FF0000) Parameter size: 4 [bytes]



A main controller interprets colours as a sum of it component colours value. Each colours value is a number from 0 to 255.

Indicated colour = 65536 * RED value + 256 * GREEN value + BLUE value

Colour	Decimal value
Red	16711680
Green	65280
Blue	255
Yellow	16776960
Turquoise	65535
Orange	16750848
White	16777215
LED indicator turned off	0

63. Managing a LED indicator under standard operation

Parameter determines LED indicator's operation. Set to 0 turns the indicator off, saving a battery life.

Available settings:

0 - LED indicator doesn't indicate the temperature

LED indicator indicates the temperature (blink) every Temperature Measurement Interval (Parameter 10, constant current and hattery) or Wake Up Interval (battery mode)

2 - LED indicator indicates the temperature continuously, only in constant power

Default setting: 2 Parameter size: 1 [byte]

73. Temperature measurement compensation

Available settings: -10 000 to +10 000 Default setting: 0 (0.00oC)

Parameter stores a temperature value to be added to or deducted from the current temperature measured by internal temperature sensor in order to compensate the difference between air temperature and temperature at the floor level.

74 Alarm frame sent to 2-nd Association Group activation (MOVEMENT_TAMPER / BUTTON_TAMPER) (1 byte)

Available settings:

- tamper alarms inactive
- 1 button tamper alarm active
- 2 movement tamper alarm active

button and movement tampers alarm active

Default setting: 2

The device is able to turn on alarms resulting from sensor's vibrations e.g. when the sensor is moved, or the TMP button released. 2-nd Association Group alar are not cancelled.

75. Visual and audible alarms duration

The user can silence the Flood Sensor. Because the Sensor's alarm may last for a long time, it's possible to turn off visual and audible alarm signaling to save battery.

Available settings: 0 - 65535 (each 1 second)

Default setting: 0

Parameter size: 2 [bytes]

The parameter determines a time period after which alarm will become "quiet" still active but the device will go into battery saving mode. Visual or acoustic alarm will be reactivated after time period specified in the Parameter 76. When alarm status ceases, alarm will be turned off immediately

The value of 0 means visual and acoustic alarms are active indefinitely. In battery power mode the Sensor will never go to sleep which may shorten battery life significantly.



The parameter is ignored when Parameter 2 is set to 0.

76. Alarm frame / Basic Set frame retransmission time when retaining flood

Allows for turning of the internal flood sensor. Tamper and built in temperature

1 - Built in flood sensor TURNED OFF (doesn't change its state in the main

controller, doesn't send Alarms and Basic Set frames with flood state changes.

1. The Guarantee is provided by FIBAR GROUP Sp. z o.o. (hereinafter

"Manufacturer"), based in Poznan, ul. Lotnicza 1; 60-421 Poznan, entered in the

omic Department of the National Court Register, no. 370151, NIP

register of the National Court Register kept by the District Court in Poznań. VIII

2. The Manufacturer is responsible for equipment malfunction resulting from

physical defects (manufacturing or material) of the Device for 12 months from the

3. During the Guarantee period, the Manufacturer shall remove any defects, free

of charge, by repairing or replacing (at the sole discretion of the Manufacturer) any

defective components of the Device with new or regenerated components, that

are free of defects. When the repair impossible, the Manufacturer reserves the

right to 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

4. In special cases, when the device cannot be replaced with the device of the

same type (e.g. the device is no longer available in the commercial offer), the

Manufacturer may replace it with a different device having technical parameters

similar to the faulty one. Such activity shall be considered as fulfilling the

obligations of the Manufacturer. The Manufacturer shall not refund money paid for

5. The holder of a valid guarantee shall submit a guarantee claim through the

guarantee service. Remember: before you submit a guarantee claim, contact our

technical support using telephone or e-mail. More than 50% of operational problems is resolved remotely, saving time and money spent to initiating

guarantee procedure. If remote support is insufficient, the Customer shall fill the

guarantee claim form (using our website - www.fibargroup.com) in order to obtain

claim authorization. When the guarantee claim form is submitted correctly, the

Customer shall receive the claim confirmation with an unique number (Return

6. The claim may be also submitted by telephone. In this case, the call is recorded

and the Customer shall be informed about it by a consultant before submitting the

claim. Immediately after submitting the claim, the consultant shall provide the

7. When the guarantee claim form is submitted correctly, a representative of the

Authorised Guarantee Service (hereinafter as "AGS") shall contact the Customer.

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

9. The faulty device shall be provided by the Customer with complete standard

10. Parts replaced under the guarantee are the property of the Manufacturer. The

guarantee for all parts replaced in the guarantee process shall be equal to the

guarantee period of the original device. The guarantee period of the replaced part

11. Costs of delivering the faulty device shall be borne by the Customer. For

unjustified service calls, the Service may charge the Customer with travel

• the Device was provided by the Customer incomplete, without accessories or

• it was determined that the fault was caused by other reasons than a material or

13. The Manufacturer shall not be liable for damages to property caused by

defective device. The Manufacturer shall not be liable for indirect, incidental,

special, consequential or punitive damages, or for any damages, including, inter

alia, loss of profits, savings, data, loss of benefits, claims by third parties and any

property damage or personal injuries arising from or related to the use of the

mechanical damages (cracks, fractures, cuts, abrasions, physical deformations

caused by impact, falling or dropping the device or other object, improper use or

damages resulting from external causes, e.g.: flood, storm, fire, lightning, natural

disasters, earthquakes, war, civil disturbance, force majeure, unforeseen

accidents, theft, water damage, liquid leakage, battery spill, weather conditions,

sunlight, sand, moisture, high or low temperature, air pollution;

damages caused by malfunctioning software, attack of a computer virus, or by

· damages resulting from: surges in the power and/or telecommunication network,

improper connection to the grid in a manner inconsistent with the operating manual, or from connecting other devices not recommended by the Manufacturer damages caused by operating or storing the device in extremely adverse conditions, i.e. high humidity, dust, too low (freezing) or too high ambient

failure to update the software as recommended by the Manufacturer;

the guarantee document is not valid or there is no proof of purchase.

he extended by the time in which the Device was kent by AGS.

In case a time period set in this parameter is shorter than the one

specified in parameter 75, the device will not quiet the alarm, it will

ted. The value of 0 cancels an alarm frame retransmission.

0 - Default flood sensor operation (flood detection, reactions)

Always visible in the main controller as turned off)

Available settings: 0 - 65535 (each 1 second)

remain active

77. Flood sensor functionality turned off

Default setting: 0

Parameter size: 2 [bytes]

sensor will remain active.

Available settings:

Default setting: 0

Parameter size: 1 [hvte]

XV. GUARANTEE

7811858097, REGON: 301595664

Merchandise Authorization -RMA)

Customer with the claim number (RMA-number).

equipment and documents proving its purchase

expenses and handling costs related to the case

manufacturing defect of the Device

14. The guarantee shall not cover:

not observing the operating manual):

12. AGS shall not accept a complaint claim only when:

the Device was misused or the manual was not observed.

shall not be extended.

nameplate.

date of its purchasing.

the Customer

· damages caused by using accessories not recommended by the Manufacturer Parameter determines a time period after which an alarm frame will be retransmit-

· damages caused by faulty electrical installation of the Customer, including the use of

- damages caused by Customer's failure to provide maintenance and servicing activities

temperature. Detailed permissible conditions for operating the Device are defined in the

- defined in the operating manual; damages resulting from the use of spurious spare parts or accessories improper for
- given model, repairing and introducing alterations by unauthorized persons; defects caused by operating faulty Device or accessories.
- 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 should 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 life.
- 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.
- 17. This guarantee shall not exclude, limit or suspend the Customer rights when the provided product is inconsistent with the purchase agreement.



OPERATE THE EQUIPMENT

operating manual:

This Device may be used with all devices certified with Z-Wave certificate and should be compatible with such devices produced by other manufacturers.

Any device compatible with Z-Wave may be added to Fibaro system

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT, SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference
- 2. This device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no quarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- · Reorient or relocate the receiving antenna.

that to which the receiver is connected

- Increase the separation between the equipment and receiver.
- · Connect the equipment into an outlet on a circuit different from
- Consult the dealer or an experienced radio/TV technician for help

responsible for any Third-Party Products or Services.

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

Fibaro, Fibar Group logo, and Fibaro Flood Sensor are trademarks of Fibar Group Sp. z.o.o. All other brands and product names referred to herein are trademarks of their

The information contained herein is provided in connection with Fibaro products. No license, expressed or implied by estoppel or otherwise, to any intellectual property rights is granted by this documents

This documentation may contain references to third-party sources of information. hardware or software, products or services ("collectively the "Third-Party Products or Services"). Fibaro does not control the Third-Party Products or Services and is not

Except as provided above or except to the extent prohibited by applicable law. Fibaro shall not be liable for any incidental or consequential damages caused by the breach of any express or implied warranty. Fibaro assumes no liability whatsoever, and Fibaro disclaims any express or implied warranty, relating to the sale and/or use of the Fibaro products including but to limited to liabilities and/or warranties relating to fitness for a particular purpose, merchantability, and/or infringement of any patent, copyright and/or other intellectual property right.

Except to the extent prohibited by applicable law, Fibaro's liability shall not exceed the price paid for the Fibaro products from direct, indirect, special, incidental or consequential damages resulting from the sue of the products, its accompanying software, or product specifications, manuals, installation guides and/or any other documentation.

Some states, provinces or jurisdictions do not allow the exclusion or limitation of incidental or consequential damages or other limitations on warranties, so the above limitations or exclusion may not apply to you. You may also have other rights that vary from state to state or province to province

FIBARGROUP

In case of any technical questions contact customer service centre in your country www.fibaro.com