The Fibaro Smoke Sensor is a versatile device that can be used in various ways. It is designed to operate in confined spaces, and it is easy to install. The sensor is designed to be placed on a wall or ceiling. LED through a NC (normally closed) contact terminals.

There are two ways to include a Fibaro Smoke Sensor into the Z-Wave network:
1) manually, using the B button (option available in both powering modes - hard wired or battery powered).

In order to turn off the Z-Wave inclusion function, press the B Button once after the power source has been connected to the Smoke Sensor.

- EXCLUDING FIABRO SMOKE SENSOR FROM THE Z-WAVE NETWORK:
1) Make sure the sensor is connected to power source (battery and/or hard wired).
2) Set the main controller into the learn mode (see main controller’s operating manual).
3) Quickly, trip the B button, located on Fibaro Smoke Sensor’s enclosure.
4) Fibaro Smoke Sensor will be excluded and included into the Z-Wave network.

EyeNote: It’s recommended to exclude the Fibaro Smoke Sensor from the Z-Wave network to prevent too many devices to be excluded at a time. To avoid it, it’s recommended to exclude the Fibaro Smoke Sensor during the night time.

VII. DETECTING FIARE THROUGH TEMPERATURE ALARM
Apart from detecting smoke presence, Fibaro Smoke Sensor can detect fire by according to a rapid rise in temperature. The smoke presence is confirmed, (e.g. damaged smoke chamber) an intermittent sound alarm will start, LED indicator changes its colour to red, the sensor is malfunctioning.

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VIII. DETECTING LACK OF Z-WAVE RANGE
When included in the Z-Wave network, Fibaro Smoke Sensor tests the network communication. The Z-Wave network communication test is performed at every 2% of wake up interval. In constant power mode, the Z-Wave network communication test is performed every 500 ms after Z-Wave network communication is signaled by an intermittent sound alarm and LED blinking.

If a Fibaro Smoke Sensor triggers an alarm, the Z-Wave network operation and the main controller operation need to be verified. This Fibaro Smoke Sensor will communicate with the main controller only if a Fibaro Smoke Sensor communicates with the network after manual or automatic wake up.

IX. SENSORS SENSITIVITY LEVEL CONFIGURATION
There are 3 sensitivity levels of the optical smoke detector used in Fibaro Smoke Sensor. By default, the sensor is set to medium sensitivity.

EyeNote: It’s recommended to change Fibaro Smoke Sensor’s sensitivity level.

X. RESETTING THE FIBARO SMOKE SENSOR
The Fibaro Smoke Sensor resets the SMIKOM memory, including all information on the Z-Wave network and the main controller.

EyeNote: It’s recommended to reset the Fibaro Smoke Sensor.

XI. OPERATING THROUGH THE Z-WAVE NETWORK
Fibaro Smoke Sensor has a built-in smoke detector and a temperature sensor, which makes it a multi-channel device. In the Home Center 2 menu it will be presented as two devices, depending on the main controller software version.

EyeNote: It’s recommended to exclude it from the Z-Wave network main controller’s memory. Before resetting the device, it must be excluded from the Z-Wave network.

EyeNote: It’s recommended to deactivate the Z-Wave network communication test.

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XII. ASSOCIATIONS

Through an association Fibaro Smoke Sensor can control another Z-Wave network devices. Main controller does not take part in such association.

1-st Association Group is assigned to the device named "Simple SWITCH" (or any other name). The device should be in OFF state.

2-nd Association Group is assigned to the device named "Dimmer" (or any other name). The device should be set on "dimmer mode".

3-rd Association Group is assigned to the device named "RGBW Controller" (or any other name). The device should be in "off" state.

Fibaro Smoke Sensor allows for controlling 1 regular and 5 multi-channel devices in one association group, out of which 1 field is reserved for the 2nd Z-Wave main controller.

To add an association (using Home Center 2 interface) go to device settings. Select the device options tab. Then specify to which group and which devices are assigned. Sending relevant information to devices that have been added to association group may take up to a few hours depending on the previous configuration/settings parameters.

XIII. LED VISUAL INDICATORS AND SETTINGS

The Fibaro Smoke Sensor is equipped with a LED status indicator. It is used for signaling sensor’s operating modes and alarms. It also may inform about the Z-Wave network range and the current temperature.

LED indicator signaling modes:

1) LED alarm indicator blinking in red - The sensor is in alarm state. The sensor sends temperature-related data to associated devices. The value of 255 allows for turning on a device. In case of Dimmer, the value of 255 means full power/illumination.

2) LED.alarm indicator blinking in yellow - There is a low battery (below 3.0V) warning. In case of Dimmer, the value of 0 means full power/illumination.

3) LED indicator in green is pulsing - The sensor is in normal state.

4) The delayed alarm indicator is blinking in pink or violet - The sensor sends smoke-related data.  

5) The delayed alarm indicator is blinking in green - The sensor sends temperature-related data.

6) The delayed alarm indicator is pulsing violet with LED blinking in green.

Parameters:

- temperature change reporting inactive
- broadcast (2-nd association group) active.

XVI. BLACK BOX

The Fibaro Smoke Sensor has a built-in memory for recording smoke and temperature information. Having received even the smallest amount of smoke, the sensor records the smoke level measured, time and temperature measured at that precise moment. This information is sent to the Z-Wave network main controller every 60 seconds. Home Center 2 allows for monitoring Black Box recordings (see "Temperature information - Black Box").

WARNING: To stop sending temperature data from the 2-rd Z-wave main controller, Black Box sensitivity may be modified through the parameter 63-3.

XVII. ADVANCED CONFIGURATION

WAKE UP INTERVAL (3 bytes)

Note: "Black Box" reports are stored for about 24 hours, depending on the parameter 41 settings and working environment conditions. User may force sending these recordings to the Z-Wave network main controller, depending on its model and software version.

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1. Smoke alarm cancellation delay

Default value of the Wake up in Home Center 2 is 6 hours

NOTE

دیده 24 ساعت می‌باشد.

2. LED indicator ranging test (4 bytes)

- No battery, immediate cancellation
- "Smoke Sensor" will keep indicating smoke unless smoke is detected. The alarm can be only cancelled manually, by entering 2nd menu level (see section XII).

Default value: 0

Parameter size: 2 bytes

NOTE

Parameter settings do not influence the visual and acoustic alarms, which are turned off when the smoke has disappeared.

3. Temperature alarm threshold.

Available settings: 0 - 14400 (5min – 24h)

Default setting: 20

Parameter size: 2 bytes

NOTE

The change in the parameter’s settings may cause a Fibaro Smoke Sensor to operate contrary to valid safety regulations of the environment.

XVIII. DEVICE USE WARNING

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

XIX. GUARANTEE

1. The Guarantee is provided by FIBARGROUP Sp. z o.o. (hereinafter: Manufacturer) to the end-user, and is valid in the following cases:

   a) The Guarantee is valid for Z-Wave network devices. For devices other than Z-Wave wireless devices, theGuarantee will be included in the guarantee Conditions of the manufacturer of the device.

b) The Guarantee is valid for initial defective components of the Device with new or regenerated components, that is free of any repair, that are produced by the Manufacturer or third party device manufacturers acting under the Manufacturer’s name.

2. The Manufacturer is responsible for equipment malfunction resulting from physical damage, fire, natural disasters, vandalism, accidents, or illegal use.