The Fibaro Smoke Sensor is a universal, optical Z-Wave smoke sensor. Fire alarm is signaled by visual indicator blinks and by sending Z-Wave control commands. Fire alarm linkage is set to occur immediately after recognized smoke signal. Smoke signal is detected also during fire alarm linked linkage. The Fibaro Smoke Sensor is intended to be used in rooms prone to fire occurrence, e.g. fire alarm. 

VI. MALFUNCTION DETECTION
The Fibaro Smoke Sensor can automatically detect a malfunction. As described in section IV, the Fibaro Smoke Sensor performs an efficiency test every 10 seconds. If malfunction is detected (e.g. damaged smoke chamber) an intermittent sound and visual signal will start and after 30 minutes will be sent to the Z-Wave controller network and associated devices. Fibaro Smoke Sensor’s owners can be notified by visual and sound signal at the main controller. If a smoke alarm has been detected, its visual and sound signal cannot be disabled, while the smoke alarm duration cannot be changed.

VII. TESTING LACK OF Z-WAVE RANGE
When included in the Z-Wave network, the Fibaro Smoke Sensor tests the network communication. By default the procedure is performed at each temperature report depending on parameters (p. 35 and 35.1) In addition the Fibaro Smoke Sensor tests the Z-Wave signal twice during each power loss. The test may be performed by the user or the main controller may be configured to perform the test automatically.

VIII. SENSORS’ LEVEL SENSITIVITY CONFIGURATION
Optical smoke detector used in the Fibaro Smoke Sensor has 3 levels of sensitivity according to EN 14604:2005. By default, the device is set to the middle sensitivity level. Sensitivity level can be modified by selecting one of the 3 sensitivity levels of operating zone. In Z-Wave network communication alarm will be activated by the smoke alarm of the Z-Wave network controller and associated devices.

IX. RESETTING THE FIBARO SMOKE SENSOR
Resetting the Fibaro Smoke Sensor: 
- Remove the battery (see section IV), wait until the visual indicator glows yellow, signaling entering the 4th menu level.
- Wait until the visual indicator turns red, indicating entering the 5th menu level.
- Release the B-button.
- Repeat the previous procedure to exit.
- The alarm is reset.

X. 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 menu, it will be presented as two devices, depending on the main controller software version.

XI. ASSOCIATIONS
Through an association Fibaro Smoke Sensor may control another Z-Wave network device. Main controller does not take part in such communication. Using this mechanism, Fibaro Smoke Sensor may communicate with other controllers via the main controller only. It is set to each Z-Wave network device association group 5-6.

The Fibaro Smoke Sensor is a multiple use device; however, for general safety its recommended to replace the device with a new one after a service occurrence.

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To add an association (using Home Center interface) to the device settings and click the following icon:

XVI. SOFTWARE UPDATE
The Fibaro Smoke Sensor features remote software update. Complete the following steps to perform device update:

1. Turn-off the sensor.
2. Wait until the visual indicator glows violet, and then press the B-button briefly to make sure the device is in working property.

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

XVIII. ALARMS AND NOTIFICATIONS

XIV. Z-WAVE RANGE TEST
The Fibaro Smoke Sensor has built-in Z-Wave network range testers. Follow the below instructions to test the main controller.

1. Make sure the sensor is powered.
2. Press and hold the button for 3 seconds. Visual indicator will glow.
3. Release the button. The visual indicator will be flashing in yellow.

XVI. ADVANCED CONFIGURATION

Setting to 0 disables sending Wake Up Notification frame. Wake Up notification broadcast will be sent by sending any 1-byte or 1-byte long command.

1. Low battery alarm
2. Sensor status
3. Temperature report

NOTE

XII. MENU MODE AND VISUAL INDICATIONS
The Fibaro Smoke Sensor is equipped with visual indicator for indicating sensor’s warns and warning’s modes and alarms. In addition the visual indicator may display errors and warnings of the Z-Wave network range associated temperature thresholds.

Visual indicator modes:
- Alarm indicators (see p. XIII)
- Menu levels indicators
- Association group indicators

Visual indicator colors will change in the following sequence:

- green. Incorrect update process is indicated by the visual indicator changing colour (in case of update process is canceled or failed)
- green.
- cyan.
- red.
- violet.
- white.

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

X. Software Update
The Fibaro Smoke Sensor features remote software update. Complete the following steps to perform device update:

1. Turn-off the sensor.
2. Wait until the visual indicator glows violet, and then press the B-button briefly to make sure the device is in working property.

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

X. Software Update
The Fibaro Smoke Sensor features remote software update. Complete the following steps to perform device update:

1. Turn-off the sensor.
2. Wait until the visual indicator glows violet, and then press the B-button briefly to make sure the device is in working property.

XII. Menu Mode and Visual Indications
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