The Fibaro Smoke Sensor is a universal, optical Z-Wave smoke detector. Fire alarm is signaled by sound, visual indicator blinking and by sending Z-Wave alarm. The Fibaro Smoke Sensor is compliant with EN 14604:2005. By default, the device is set to the middle sensitivity; Sensitivity level depends on the parameter 1 settings (modified only through the main Z-Wave controller).

Temperature Measuring Accuracy:
0% - 93% (depending on terrain and building structure).
Operational Humidity:
0% - 93%.
Radio frequency:
869 MHz RU; 921,4 or 919,8 MHz ANZ; 868 MHz INT; 868 MHz USA.
Radio protocol:
Z-Wave.

I. ADDING TO Z-WAVE NETWORK

FIG. 1 - Fibaro Smoke Sensor top view

CAUTION
It is strongly recommended to perform the washout after each battery replacement to ensure correct device operation.

FIG. 2 - Fibaro Smoke Sensor bottom view without the battery installed

CAUTION
Fibaro Smoke Sensor is a multiple use device, however, for greater safety, it is recommended to replace with a new one after the first occurrence of smoke.

CAUTION
If the alarm is triggered, but the level of smoke did not exceed concentration equal to three times of the sensitivity in the parameter one (100% sensitivity is the upper level of sensitivity in the parameter one), the sensor will indicate a low battery. It is recommended to install Fibaro Smoke Sensor in all indoor prone to fire areas and visible such areas as well.

Note: It is recommended to install the sensor on the ceiling or upper part of walls in void of large objects and near fire sources. Particular attention should be paid to any adjacent objects of fire-risk. Also, it is recommended to install Fibaro Smoke Sensor in all indoor prone to fire areas and visible such areas as well.

Fibaro Smoke Sensor always operates with the battery, even if mains power is available.

Installing Fibaro Smoke Sensor:
1) Insert the device into the Z-Wave network (see Fig. 1). If the inclusion process may be performed ONLY in direct range of the main controller.
2) Power on the Fibaro Smoke Sensor. Include a device into the Z-Wave network, wake it up by clicking the B-button. Otherwise, the device is disabled (see below).
3) Screw the Fibaro Smoke Sensor into the cover of the fixture or into the Z-Wave network (see Fig. 2). It is possible to include the Fibaro Smoke Sensor into any Z-Wave network, wake it up by clicking the B-button. Otherwise, the device is disabled (see below).
4) Test the Z-Wave network range (see Fig. 2). Checking the Fibaro Smoke Sensor range is very important, because certain devices may not be able to detect smoke originating from adjacent units.

CAUTION
Fibaro Smoke Sensor allows for controlling 5 regular or 5 multichannel devices per an association. Fibaro Home Center software supports SENSOR ALARM REPORT command may be included in this group and SMOKE ALARM command may be included in this group as well.

VII. DETECTING LACK OF Z-WAVE RANGE

When included in the Z-Wave network, Fibaro Smoke Sensor tests the network range periodically. The test result is indicated on the display panel depending on parameters 36 and 21 settings. In additional, Z-Wave network communication link is performing periodically. Lack of Z-Wave network communication may be indicated by an alarm indicator sound and visual indicator blinking. By default these settings are disabled. To enable this feature parameters 13 and 14 (see section V.I) are set to 1. The Fibaro Smoke Sensor will be detected in the Z-Wave network alarm system it is connected to when the network communication link is unavailable or automatic wake up.

Fibaro Smoke Sensor allows for controlling 5 regular or 5 multichannel devices per an association group in zones 2-0 and device 1 in the 1st group.

VI. MALFUNCTION DETECTION

The Fibaro Smoke Sensor can automatically detect malfunction. As described in section VI, device performs a test every 10 seconds. If malfunction is detected (e.g. damaged smoke chamber) an intermittent sound signal will start and alarm will be sent to the Z-Wave network controller. After four alarm attempts have been performed, the alarm will be stopped, it is recommended to disconnect the sensor and:
1) Check the error source (battery replacement)
2) Check whether the sensor is exposed to direct light.
3) Check whether the sensor is exposed to direct light.
4) If a trouble alarm is continually repeated, it is recommended to replace Fibaro Smoke Sensor with one with contact or cover if the product warranty is still valid.

The Fibaro Smoke Sensor will be detected in the Z-Wave network alarm system it is connected to when the network communication link is unavailable or automatic wake up.

Fibaro Smoke Sensor allows for controlling 5 regular or 5 multichannel devices per an association group in zones 2-0 and device 1 in the 1st group.
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 reveal the current system’s state or range of expected temperatures according to the settings.

**Visual indicator modes:**
- **Red** - device fault
- **Yellow** - low battery
- **Green** - device powered

**Available settings:**
- 0
- 1
- 2

**Parameter size:** [bytes]

**11.X RAMS AND NOTIFICATIONS**

**FIRE alarm:**
- Three short beeps and visual indicator blinking red for 1.5 seconds.
- **Low battery alarm:**
- Short beep and visual indicator blinking red for 1 second, the alarm will be acknowledged after 30 seconds.

**Setting to 0 disables sending Wake Up Notification frame. Wake Up Notification frame can be sent by actuation of a button or using Wake Up Schedule.**

**12. BASIC ON frame value**

**Setting to 0 turns off the device.**

**13. Temperature threshold**

**Temperature threshold is determined by the built-in temperature sensor above which the device will send an alarm (see visual indicator flashing white).**

Available settings:
- [-100°C - 100°C]

**Parameter size:** [bytes]

**14. Associations in Zigbee network security mode automatically disables sending alarm in broadcast mode.**

**15. BATTERY USE WARNING**

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

**16. XVII. BATTERY USE WARNING**

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

**17. SIMPLIFIED EU declaration of conformity:**