The Fibaro Door/Window Sensor is a wireless, battery-powered, Z-Wave compatible sensor. Each time its two parts, i.e. sensor’s body and a magnet, are moved in relation to one another, it sends out a radio signal to the additional sensor’s body. The Wireless Door Windows sensors are Z-Wave compatible, and can be used at the same time with the following Fibaro modules:

- Fibaro Wall Switch
- Fibaro Remote Control
- Fibaro Switch Dimmer

Fibaro is a bi-directional wireless system. This means the signal is not only sent to the receiver, but also the receiver sends back acknowledgment to the device that sent the signal. This check condition of receivers, which allows to check whether or not a device has actually been activated or not. The safety of transmission of the Fibaro System is comparable with a wired bus system. Fibaro operates in the free band for data transmission. This frequency depends on the radio regulations in each individual country.

Each Fibaro network has its own unique network identification number (home ID), which is why two or more independent systems cannot communicate. Although the Z-Wave technology is fairly new, it has already been accepted as an official standard just like WiFi. Numerous manufactures from various fields offer solutions based on Z-Wave technology; compatible with one another. This makes the system fit for the future and allows for further development. For more information go to www.fibaro.com.

Fibaro establishes a dynamic network structure. From the moment of startup, the location of respective devices of the Fibaro System is updated automatically, in real time, by confirming their condition in the working mesh network.

**II Sensor Installation:**

1. Connect Fibaro Door/Window Sensor according to the appropriate diagram (if necessary).
2. Place battery inside the Sensor’s casing.
3. Install the battery.
4. Install Fibaro Door/Window Sensor observing diagram 4.

**Explanation of Conductor Markings:**

- **BELL-PUSH**
- **TP (VDQ)**
- **GROUND**
- **IN**
- **TM**

In accordance with EU standards:

- **R&TTE 1999/5/WE**
- **LVD 2006/95/WE**
- **EN 55014-1/2006**
- **EN 61000-6-3/2007**
- **EN 61000-6-2/2007**

**Power supply:**

- single CR123A (DDD) 3.0V battery

**Inputs:**

- single, potential-free

**Supported temperature sensors:**

- single, DS18B20

**Operating temperature:**

- 0 - 40 °C

**Radio protocol:**

- Z-Wave Basic

**Radio frequency:**

- 864 MHz EU
- 914 MHz US
- 921,4 MHz ANZ

**Range:**

- up to 30m indoors, depending on building materials used and the building structure

Dimensions (L x W x H): 76 x 17 x 19 mm

**Technical information:**

- Controlled via: Fibaro System components or any other Z-Wave compatible controller.
- Quick installation: easily mounted on doors, windows, garage gates, or similar, using double sided adhesive tape or screws.
- Compatible with Z-Wave 1.0, 1.1, 2.0, 2.5, 3.0, 3.1.x standards.
- The Fibaro Door/Window Sensor is a one, potential-free IN input. Potential-free inputs are used to create triggers in the system and can be modulated with a variety of external mechanisms, such as a magnet, a door handle, a light switch or a sensor.
- When connecting the door/window sensor it must be configured to the network.

**In Use:**

- The Fibaro Door/Window Sensor has a one, potential-free IN input. Potential-free inputs are used to create triggers in the system and can be modulated with a variety of external mechanisms, such as a magnet, a door handle, a light switch or a sensor.
- When connecting the door/door sensor it must be configured to the network.

**Temperature Sensing:**

**The DS18B20 temperature sensor may be installed anywhere where precise temperature resolution is required, or if a 1-Wire line is already available.**

**Glossary of terms:**

- **Inclusion:** the device sends out a one-time frame, which triggers a possible in the Fibaro System (Home Center 2).
- **Exclusion:** remove the device from the Fibaro System.
- **Association:** controlling other devices included in the Fibaro System.

**Installation:**

1. **Fibaro Sensor Start-up**

   **STEP 1**
   - Set the controller to the inclusion or exclusion mode (see: Z-Wave control instructions).
   - The Fibaro DoorWindow sensor is added to the network by quickly pressing the TMP button three times (the button is located on the underside of the device). The procedure cleans its EPROM memory, including the main controller and Z-Wave network data.
   - Every time any changes are made to the configuration, TP and TD lines (in diagram 6) are used.
   - The DS18B20 sensor is connected/decoupled, if necessary. It is necessary to exclude the configuration of inclusion and repeated inclusion of the sensor module to the Z-Wave network. The device will enter into the learning mode only after connected DS18B20 sensor has been activated (about 10 s).

2. **Resetting the Fibaro DoorWindow Sensor**

   - There is one way to reset the Fibaro DoorWindow Sensor. The procedure clears its ERROM memory, including the main controller and Z-Wave network data.
   - To reset the Fibaro DoorWindow Sensor please follow below instructions:
     1. Take off the Sensor’s cover and remove battery. Make sure the TMP button is intact.
     2. Touch the Sensor’s body with a magnet.
     3. Insert the battery.
     4. Within 2 seconds remove the magnet from the Sensor’s body. The LED will turn off. Within 3 seconds the LED will turn on again.
     5. Remove the battery.
     6. Re-install the battery.
     7. Reset will be confirmed by LED blinking.

**Battery use:**

- The Fibaro DoorWindow Sensor’s battery life is up to 3 years, on default settings.
- Current battery level is displayed in the Home Center 2 configuration interface. If a battery icon turns red, it means the battery needs replacement.
- In order to trigger an alert when replacing the battery, the Battery Icon will need to be configured. This will allow devices that listen to the battery icon to be notified of the battery change.

NOTE!

- Do not connect sensors other than DS18B20 to the 1-wire line (TP and TD terminals).

- It is prohibited to connect the TP and TD lines to devices not compatible with the 1-wire protocol.

**II Note:**

- If a battery is replaced with an incorrect type, Batteries should be recycled properly.
- Dispose of used batteries according to the instructions.

2. Setting the Fibaro DoorWindow Sensor

   - The procedure cleans its ERROM memory, including the main controller and Z-Wave network data.

3. Controlling the Fibaro DoorWindow Sensor with the Home Center 2 Controller

   - The DoorWindow sensor is a multi-channel device. This means that it is equipped with an independent input circuit in a 1-wire bus allowing to be connected to any Z-Wave compatible device. As a result, each device is represented by an independent icon in the System.
V Configuration

Wake-up interval (battery mode)

Available settings:
- 0 – 18772214 (seconds)

Default value: 15

Defines a time period, in seconds, by which a Fibaro Door/Window Sensor will perform a “Wake up” instruction - communication with main controller, update parameters, update software. Fibaro Door/Window Sensor will wake up at each defined time interval and will always attempt to connect with the main controller, and only after the connection attempt was being downgraded when the Sensor is used at the rate limit. In case of the network’s breakdown, it will be in the standby mode, which will be automated at the next wake-up interval.

Parameter size: 1 byte

Parameter no. 9

The temperature of the alarm cancelling frame or the control frame describing the device (the device and cancelling alarm does not associate with its input).

Default value: 0

Available parameter settings:
- 0 – for association group no. 1 information is sent
- 1 – for association group no. 2 information is not sent

Parameter size: 1 byte

Parameter no. 10

Temperature alarm.

Default value: 0

- 0 – Temperature alarm cancellation inactive
- 1 – Temperature alarm active

Parameter size: 1 byte

Parameter no. 12

Sensitivity to temperature changes. The maximum acceptable temperature difference between the temperature read by the sensor from the current temperature value to the value sent to the device assigned to association group no. 3.

Available parameter settings:
- 0 – 255 (1°C – 1°F) [00 – D7 0F 0F]

Parameter size: 1 byte

Parameter no. 13

The Fibaro Door / Window Sensor offers a wide range of advanced parameters. The parameters listed below are available in the Fibaro configuration interface. In order to configure the Fibaro Door / Window Sensor (using the Home Center 2 controller) go to the device options tab by clicking on the number (RMA-number).

Parameter no. 14

Describes alarm frame support in the context of association groups. If the associated sensor ID21/14/8/0 has the ID21/14/8/0 functionality, the device will support the following parameter types:

Available parameter settings:
- 0 – unsupported
- 1 – supported

Default value: 0

Parameter size: 1 byte

Parameter no. 15

The Fibaro Door / Window Sensor allows you to set the device’s reaction to alarm frames with the following types: ALARM SMOKE frame (value of 1 should be entered), to assert the “smoke detector connected to IN input” the user should declare the type of alarm frame for each connected sensor. For example, for a single detector connected to the input the user should declare the type of alarm frame. The device will automatically set the device’s reaction to the alarm frames declared above.

Available parameter settings:
- 0 – in IN broadcast mode
- 1 – in TMP broadcast mode

Parameter size: 1 byte

VI Additional Functionality

Alarm Frame Support.

The Fibaro System allows you to set the device’s reaction to alarm frames with the following types: ALARM SMOKE frame (value of 1 should be entered), to assert the “smoke detector connected to IN input” the user should declare the type of alarm frame for each connected sensor. For example, for a single detector connected to the input the user should declare the type of alarm frame. The device will automatically set the device’s reaction to the alarm frames declared above.

VIII Door / Window Sensor operation

The Fibaro Door / Window Sensor may be used for:
- Any system compatible control (e.g. home center 2)
- Cellular phone (e.g. iPhone or phones from other manufacturers)
- Smart home control, web-based controllers
- Tablets (e.g. iPad)
- Using the Tuya app, located inside the housing

VIII Procedure to be followed in case of interference

I. The manufacturer reserves the right to change or replace the device of the same type (e.g. available functionality may not be defined or diminished) without prior notice from the original device owner by the Customer.

2. In special cases, when the device cannot be replaced with the same type or the required functionality is not available (within the commercial offer), the manufacturer may replace it with a different one having technical parameters similar to the faulty one. Such activity shall be considered as fulfilling the obligations of the Manufacturer to the Customer.

3. For 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 by e-mail. More than 90% of operational problems is resolved remotely, saving time and money to clients in guarantee services. If the product is out of support, the Manufacturer shall not take any responsibility for the guarantee claim. The Manufacturer reserves the right to replace the device with a new one or pay the difference.

4. In case the guarantee claim is submitted, the Customer shall submit it via the Internet or in written form to the Manufacturer. The guarantee period shall be extended by the time in which the Device was used by AGS.

5. The fibaro system may be used with all devices certified with Z-Wave certificate and should be compatible with such devices produced by FIBARO.

FIBARO GROUP FIBARO

In any technical questions contact customer service in your country.

www.fibargroup.com

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