The Fibaro Door/Window Sensor is a wireless, battery powered, Z-Wave compatible sensor. Each time it is used, it sends a signal via a magnet-attached sensor and a radio frequency (RF) antenna. The Fibaro System is updated automatically, in real-time, by confirming its condition in the working mesh network.

### Technical data:
- **Power supply**: single CR14250 (1/2AA) 3.6V battery
- **Input**: single, potential-free
- **Supported temperature sensors**: single, DS18B20
- **Operating temperature**: 0 - 46 °C
- **Radio protocol**: Z-Wave
- **Radio frequency**:
  - 869.4 MHz EU;
  - 921.4 MHz AU/NZ;
  - 908.4 MHz US;
- **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.
- **Overview**: opening detected through Sensor’s body and a magnet-attached sensor.
- **Quick installation**: easily mounted on doors, windows, garage gates.
- **Compatible with**: DS18B20 temperature sensors.
- **Battery life**: up to 10 years.

### General Information on the Fibaro System:
- Fibaro’s Z-Wave system is a bidirectional wireless system. This means the signal is not only emitted from the receiver, but also from the transmitter. This bidirectional communication is achieved by using a technique called the CRS (Carrier Sensing Multiple Access) condition of receivers, which allows us to check whether or not a device has actually been existent 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 only one or more independent systems may be installed in a single building without any interference.

Although the Z-Wave technology is fairly new, it has already been accepted as an official standard, just like Wi-Fi. 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.

### II Sensor Installation:
1. Connect Fibaro Door/Window Sensor according to the diagram (if necessary)
2. Place battery inside the Sensor’s casing.
3. Include into the Z-Wave network.
4. Install Fibaro Door/Window Sensor observing diagram 4.

### EXPLANATION OF CONDUCTOR MARKINGS:

#### TMP
- **Terminal**: Power out for DS18B20 temperature sensor
- **Function**: May be connected to a switch via potential-free IN input.
- **Notes**: To ensure the most accurate temperature detection always install the magnate in relation to the Sensor’s body, as shown in diagram 4.

#### IN
- **Terminal**: Signal terminal for DS18B20 temperature sensor
- **Function**: Compatible with DS18B20 temperature sensors.
- **Notes**: To ensure correct installation always install the magnate in relation to the Sensor’s body, as shown in diagram 4.

#### GND
- **Terminal**: Ground terminal

#### TD (DQ)
- **Function**: Connect to TP (VDD) to enable the TD line of the Z-Wave network.

#### TP (VDD)
- **Function**: Connect to TD (DQ) to enable the TP line of the Z-Wave network.

### III Fibaro Sensor Start-up

#### 1. Installation of the Door/Window Sensor

1. Take off the sensor’s cover and remove battery. Make sure the TMP button is pressed.
2. Touch the Sensor’s body with a magnet.
3. Re-install the battery.
4. Remove the battery.
5. Re-install the battery.

### IV. IIW Sensor Start-up

1. Take off the sensor’s cover and remove battery. Make sure the TMP button is pressed.
2. Touch the Sensor’s body with a magnet.
3. Re-install the battery.
4. Remove the battery.
5. Re-install the battery.

### V. IIW Sensor Start-up

1. Take off the sensor’s cover and remove battery. Make sure the TMP button is pressed.
2. Touch the Sensor’s body with a magnet.
3. Re-install the battery.
4. Remove the battery.
5. Re-install the battery.

### GLOSSARY OF TERMS:

- **INCLUSION**: the device sends out a Node Info frame, which is received and stored in the Home Center 2 controller. The device sends out a Node Info frame, which is received and stored in the Home Center 2 controller.
- **EXCLUSION**: remove the device from the Fibaro System.
- **ASSOCIATION**: connecting other devices included in the Fibaro System.

### III Fibaro Sensor Start-up

#### 1. Installation of the Door/Window Sensor

1. Take off the sensor’s cover and remove battery. Make sure the TMP button is pressed.
2. Touch the Sensor’s body with a magnet.
3. Re-install the battery.
4. Remove the battery.
5. Re-install the battery.

#### 2. Resetting the Fibaro Door/Window Sensor

1. Take off the sensor’s cover and remove battery. Make sure the TMP button is pressed.
2. Touch the Sensor’s body with a magnet.
3. Re-install the battery.
4. Remove the battery.
5. Re-install the battery.

#### 3. Controlling the Fibaro Door/Window Sensor with the Home Center 2 Controller

The Fibaro Door/Window Sensor is a multi-channel device. This means that it is equipped with an independent input circuit that can be connected to the Fibaro System (Home Center 2 controller). A multi-channel device is represented by an independent icon in the System.
V Configuration

The Door / Window Sensor offers a wide range of advanced settings. 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 device options by clicking on the icon.

Fig. 1 - Door / Window Sensor icon in the Home Center controller

Next, select the device options tab.

Device parameters:

Parameter no. 1

Input alarm cancellation delay.

Default value: 0

Available parameter settings: 0 = GENERATOR frame, 1 = ALARM frame

Parameter no. 2

Status change signaled by LED.

Default setting: 1

Available parameter settings: 1 = LED ON, 2 = LED OFF

Parameter no. 3

Type of temperature measurement.

Default value: 0 – INPUT_NO (Normal Open)

Available parameter settings: 0 – INPUT_NO (Normal Open), 1 – INPUT_N (Normal Close)

Parameter no. 4

Parameter value: 1 [byte]

Parameter no. 5

Type of temperature frame transmitted for association group 1, advanced alarm frame transmission and alarm control frame transmission. 

Default value: 255 – BASIC SET

Available parameter settings: 0 - 255

Parameter no. 6

Value of the parameter specifying the level of dimming

Default value: 255

Available parameter settings: 0 - 255

Parameter no. 7

Value of the parameter specifying the level of alarm

Default value: 255

Available parameter settings: 0 - 255

VI Additional Functionality

Alarm Frame Support.

The Fibaro Door/Window Sensor allows you to set its device’s name to alarm detection in SENSOR_ALARM_REPORT frame. The Fibaro Door/Window Sensor sends alarm frames of different types, depending on given “Group” parameter value (0-3).

Parameter no. 9

Field of temperature measurement in the alarm cancelling frame or the control frame describing the device (Basic). It allows for disabling the function of describing the device and cancelling alarms for devices associated with this parameter.

Default value: 0

Available parameter settings: 0 = association group no. 1 information not sent 1 = association group no. 2 information not sent

Parameter no. 10

Parameter value: 0 [byte]

NOTE!

This parameter can cancel alarms only. Information on alarm detection in association group no. 2 for devices from association groups are always sent.

Parameter no. 11

Send alarm by the controller (on/off) or roller shutter or trigger scenes (scene control is only possible with the Home Center 2 controller).

Available parameter settings: 0 – ALARM frame

NOTE!

This parameter can cancel alarms only.

Parameter no. 12

Send alarm (on/off) and temperature changes. The maximum acceptable temperature deviation from the readout temperature from the sensor if the temperature difference by the set limit will be send. The value of this parameter is sent to the sensor assigned to association group no. 3.

Default value: 5 [S/°C]

Available parameter settings: 0 – 255 [°C to °F] (2.5°F – 60°F)

To set an appropriate value parameter use the following formula:

\[ \text{Parameter value} = \frac{x - \text{delta T} \times 16}{128} \]

Parameter value: 1 [byte]

Parameter no. 13

Sending an alarm or control frame (for IN input, depending on parameter no. 4, and TIM button sensor alarm. The frame is sent in "broadcast" mode, i.e. to all devices within range – irrespective of whether it is not repeated by the mesh network.

Parameter value: 1 [byte]

Parameter no. 14

Alarm function activated.

Available parameter settings: 0 - 255

Parameter no. 15

Scene activation functionally may shorten the holding time, e.g. to 25%.

Available parameter settings: 0 – Scene activation functionally may shorten the holding time, e.g. to 25%

NOTE!

IX Guarantee

1. The Guarantee is provided by FIBARGROUP Sp. z o.o., 64-705 Poznań, Poland.

2. The Fibaro Door/Window Sensor is certified with Z-Wave certificate and should be used only with a Z-Wave network. In the event of a fire, the Fibaro Device does not react to a programmed transmitter: buzzer, smoke detector etc., or used with a switch connected to IN input, will be represented by single icon. After the power supply (i.e. battery life, even by 25%.

NOTE!

Paperwork kept by the District Court in Poznań, VIII Economic Chamber, File No. KRS 0000309434.

NOTE!

FIBARGROUP FIBARO

IN CASE OF ANY TECHNICAL QUESTIONS CONTACT CUSTOMER SERVICE CENTRE IN YOUR COUNTRY.

www.fibargroup.com

This Device may be used with all devices certified with Z-Wave protocol and should be compatible with each devices produced by Fibaro, Fibaro Polska Sp. z o.o., and its partners. Any device compatible with Z-Wave may be added to Fibaro system.

The Fibaro Door/Window Sensor supports three association groups.

Group 1 is assigned to IN1 (and the magnetic sensor); in order to assign one device to this group, the Magnetic Sensor button should be pressed.

Group 2 is assigned to IN2. The parameter “GDrive” is set to 4 for each device from association group no. 1.

Group 3 is assigned to IN3.

If Group 3 is not configured, the device will not react to a programmed transmitter: buzzer, smoke detector etc., or used with a switch connected to IN input, will be represented by single icon. After the power supply (i.e. battery life, even by 25%.

NOTE!

Data sent in “broadcast” mode of information transmission is activated for a given channel, transmission of the data is not repeated by the mesh network.

The Fibaro Door/Window Sensor supports three association groups. The “Drive” of the Device from 12 months for the date of its purchase.

During the Guarantee period, the Manufacturer shall remove any defects, free of charge, by repairing or replacing the defective part or the whole device.

The Device may be repaired or replaced if it is determined that the defective part or the whole device does not conform to the manufacturer’s specifications, that are free of defects, free of charge, by repairing or replacing the defective part or the whole device.

The Manufacturer shall have the right to replace the device with a new or regenerated one, which shall be free of the original device owned by the Customer.

The guarantee claim form is submitted correctedly, the Manufacturer shall satisfy the Customer with a full or partial refund of the purchase price, or its components listed in the operating manual and in technical documentation as such elements have declared operational life.

The guarantee period of the replaced part shall not be extended.

The guarantee claim form is submitted correctly, the Manufacturer shall compensate the Customer with a full or partial refund of the purchase price, or

In case of alarm frames an alarm priority is specified.

NOTE!

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