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1. PRODUCT OVERVIEW

The FIBARO FGK-101 ZW5 Door/Window Sensor is a battery-powered Z-Wave Plus reed sensor designed to enhance your smart home system. It monitors the opening and closing status of doors, windows, and garage doors. This versatile sensor can also be integrated into automatic light control, access control, and property protection systems. Additionally, it supports an external temperature sensor (DS18B20) and features a built-in binary input for expanded functionality. Its compact and lightweight design allows for discreet installation, blending seamlessly with your home interior.



Image 1.1: The FIBARO FGK-101 ZW5 Door Window Sensor, showing the main unit and the smaller magnetic component.

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Video 1.1: Official product video demonstrating the features and design of the FIBARO Door Window Sensor.

2. KEY FEATURES

- **Door/Window Monitoring:** Detects the opening and closing of doors, windows, and garage doors.
- **Z-Wave Plus Certified:** Offers enhanced features such as longer battery life and improved wireless range.
- **Temperature Sensor Input:** Can be paired with a DS18B20 temperature sensor for external temperature monitoring.
- **Binary Input:** Features a built-in binary input for connecting other sensors or devices.
- **Scene Activation:** Automatically triggers pre-programmed smart home scenes based on sensor status (requires compatible controller).
- **Compact Design:** Small and lightweight, making it almost invisible on most surfaces.
- **Wide Compatibility:** Works with various Z-Wave smart hubs including Home Center 2 and Lite, SmartThings, Home Seer, Vera, Clare Controls, and Nexia.

3. INSTALLATION AND SETUP

3.1. Package Contents

Before installation, ensure all components are present:

- FIBARO FGK-101 ZW5 Door/Window Sensor (main unit)
- Magnet (smaller component)
- 1x CR123A Battery
- Mounting Tape
- User Manual (this document)

3.2. Battery Installation

1. Gently open the casing of the main sensor unit.
2. Insert the provided CR123A battery into the designated slot, observing the correct polarity (+/-).
3. Close the sensor casing securely.

3.3. Pairing with a Z-Wave Hub

To integrate the sensor into your smart home network:

1. Place the sensor within direct range of your Z-Wave controller/hub.
2. Set your Z-Wave controller into inclusion (pairing) mode. Refer to your controller's manual for specific instructions.
3. Triple-click the B-button located inside the sensor's casing. The LED indicator on the sensor will flash to confirm inclusion mode.
4. Once successfully paired, the LED will stop flashing. The sensor should now appear in your Z-Wave controller's device list.

3.4. Mounting the Sensor

For optimal performance, mount the sensor and magnet on the moving part of the door/window and its frame, respectively. The distance between the sensor and the magnet should not exceed 5mm when the door/window is closed.

1. Clean the desired mounting surfaces thoroughly.
2. Attach the main sensor unit to the door/window frame using the provided mounting tape.
3. Attach the smaller magnet unit to the moving part of the door/window, aligning it with the main sensor unit. Ensure the alignment marks on both components are facing each other.





Image 3.1: Example of the FIBARO Door Window Sensor mounted on a door frame, showing the main unit and magnet in close proximity.

3.5. External Temperature Sensor (Optional)

The FGK-101 ZW5 can connect to a DS18B20 temperature sensor. Connect the external temperature sensor to the binary input terminals inside the main unit before closing the casing. Refer to the DS18B20 sensor's documentation for wiring details.

4. OPERATION

Once installed and paired, the FIBARO Door/Window Sensor operates by detecting the presence or absence of the magnetic field from its smaller magnet component. When the door or window opens, the magnet moves away from the main unit, triggering a change in status. When it closes, the magnet returns, and the status reverts.

- **Open/Close Detection:** The sensor reports its open or closed status to your Z-Wave hub. This information can be used to trigger alarms, activate lights, adjust thermostats, or send notifications.
- **Temperature Monitoring:** If an external DS18B20 sensor is connected, the FGK-101 ZW5 will also report temperature readings to your Z-Wave hub, allowing for environmental monitoring.
- **Tamper Protection:** The sensor includes tamper protection, which will send a notification to your Z-Wave hub if the casing is opened or if the sensor is removed from its mounting location.

5. MAINTENANCE

5.1. Battery Replacement

The sensor is powered by a CR123A battery. When the battery level is low, your Z-Wave hub will typically report a low battery warning. To replace the battery:

1. Gently open the sensor casing.
2. Remove the old CR123A battery.
3. Insert a new CR123A battery, ensuring correct polarity.
4. Close the sensor casing securely.

Note: Battery life can vary depending on usage, reporting frequency, and environmental conditions. Some users have reported varying battery performance, especially with frequent temperature reporting.

5.2. Cleaning

Clean the sensor's exterior with a soft, dry cloth. Avoid using abrasive cleaners or solvents, as these can damage the device.

6. TROUBLESHOOTING

If you encounter issues with your FIBARO Door/Window Sensor, consider the following:

- **Sensor Not Pairing:** Ensure the sensor is within range of your Z-Wave hub. Try resetting the sensor to factory defaults (refer to the full product manual for specific reset procedures) and attempting the inclusion process again.
- **Incorrect Status Readings:** Verify that the main sensor unit and the magnet are properly aligned and within the recommended 5mm distance when the door/window is closed.
- **Poor Battery Life:** High reporting frequency (especially for temperature) or weak Z-Wave mesh network

can reduce battery life. Adjust reporting parameters in your Z-Wave hub settings if possible. Ensure you are using a fresh, high-quality CR123A battery.

- **Compatibility Issues:** While compatible with many hubs, specific functionalities or advanced configurations might vary. Consult your Z-Wave hub's documentation or FIBARO's support resources for detailed compatibility information.
- **No Temperature Readings:** Ensure the DS18B20 external temperature sensor is correctly wired and connected to the main unit's binary input.

7. TECHNICAL SPECIFICATIONS

Specification	Value
Model Number	FGK-101 ZW5
Manufacturer	Fibaro
Item Weight	1.6 ounces
Product Dimensions	3 x 0.7 x 0.7 inches
Power Source	Battery Powered
Battery Type	1 CR123A battery (included)
Material	Plastic
Color	White
Wireless Technology	Z-Wave Plus
Included Components	Door/Window Sensor, 1xCR123A Battery, User Manual, Mounting Tape
Date First Available	August 6, 2016

8. WARRANTY AND SUPPORT

FIBARO products typically come with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your product or visit the official FIBARO website. If you require technical assistance, troubleshooting, or have questions regarding your sensor, please contact FIBARO customer support. Support resources, including FAQs and detailed guides, are often available on the manufacturer's website.