FIBARO FGMS-001

FIBARO Motion Sensor FGMS-001 User Manual

Model: FGMS-001

1. INTRODUCTION

The FIBARO Motion Sensor is a highly advanced, wireless Z-Wave Plus multisensor designed to enhance your smart home experience. Inspired by the ancient Egyptian beliefs and shaped like a cat's eye, this compact device integrates four essential functions: motion detection, temperature sensing, light intensity measurement, and vibration (accelerometer) sensing. It provides reliable data to your Z-Wave hub, enabling automated scenes and intelligent monitoring for improved comfort and security.

2. SAFETY INFORMATION

- Read this manual carefully before attempting to install or operate the device.
- This product is not a toy. Keep away from children and pets.
- The device is designed for indoor use only. Do not expose to moisture or extreme temperatures.
- Use only the specified battery type (CR123A). Incorrect battery usage may result in damage or fire.
- Any repairs or modifications not authorized by the manufacturer will void the warranty.

3. PACKAGE CONTENTS

Figure 3.1: FIBARO Motion Sensor and its packaging.

Your FIBARO Motion Sensor package should contain the following items:

- FIBARO Motion Sensor (FGMS-001)
- User Manual (this document)
- Mounting Brackets
- 1 x CR123A Battery (pre-installed or included separately)

4. PRODUCT OVERVIEW

The FIBARO Motion Sensor is a versatile device capable of detecting multiple environmental parameters:

- **Motion Sensor (PIR):** Detects movement within its field of view, triggering alerts or automated actions.
- **Temperature Sensor:** Monitors ambient temperature, allowing for climate control automation.
- **Light Intensity Sensor:** Measures light levels (in Lux), enabling smart lighting adjustments based on natural light.
- **Accelerometer (Vibration Sensor):** Detects vibrations or tampering, providing an additional layer of security.

Figure 4.1: The FIBARO Motion Sensor's LED pupil, which indicates status and temperature.

The sensor features a multicolor LED pupil that visually communicates detected motion or current room temperature, with customizable color and intensity settings.

Figure 4.2: Multiple FIBARO Motion Sensors showcasing different LED pupil colors.

5. SETUP

5.1. Battery Installation

The FIBARO Motion Sensor is powered by a single CR123A battery. To install or replace the battery:

1. Gently twist the two halves of the sensor counter-clockwise to open it.
2. Insert the CR123A battery, ensuring correct polarity (+/-).
3. If a protective tab is present, pull it out to activate the battery.
4. Align the two halves and twist clockwise to close the sensor securely.

5.2. Mounting

The sensor can be mounted on any flat surface using the included screw or adhesive. The flexible mounting bracket allows for precise positioning to optimize detection.

- Attach the mounting bracket to your desired location.
- Snap the Motion Sensor onto the mounting bracket.
- Adjust the sensor's angle to cover the desired area.

5.3. Z-Wave Pairing

The FIBARO Motion Sensor requires a compatible Z-Wave hub for full functionality. It is compatible with most open Z-Wave systems.

Figure 5.1: Examples of Z-Wave hubs compatible with the FIBARO Motion Sensor.

Figure 5.2: The Z-Wave Plus certification ensures broad compatibility and enhanced features.

To pair the sensor with your Z-Wave hub:

1. Place the sensor within direct range of your Z-Wave hub.
2. Put your Z-Wave hub into inclusion/pairing mode (refer to your hub's manual).
3. Triple-click the B-button located inside the sensor (next to the battery). The LED pupil will flash to indicate inclusion mode.
4. Once successfully paired, the LED will stop flashing and the sensor will appear in your hub's device list.

Note: This Z-Wave version is not compatible with Apple HomeKit.

6. OPERATING THE SENSOR

6.1. Motion Detection

The Passive Infrared (PIR) sensor detects changes in infrared radiation caused by movement. When motion is detected, the sensor sends an alert to your Z-Wave hub. The LED pupil can be configured to indicate motion visually.

6.2. Temperature Sensing

The integrated temperature sensor provides real-time temperature readings. These readings can be used to trigger thermostat adjustments or other climate control automations. The LED pupil can also be set to display temperature ranges via different colors.

6.3. Light Intensity Measurement

The sensor measures ambient light intensity in Lux. This data is useful for automating lighting scenes, ensuring lights only turn on when natural light is insufficient.

6.4. Vibration/Tamper Alert

The built-in accelerometer detects vibrations or changes in the sensor's orientation. This can be configured as a tamper alert, notifying you if the sensor is moved or disturbed.

6.5. Customizable Settings

The FIBARO Motion Sensor offers over 20 advanced settings accessible through your Z-Wave hub's interface. These include:

- **Motion Sensitivity:** Adjust the sensitivity of the PIR sensor to prevent false alarms.
- **Blind Time:** Configure the period after motion detection during which the sensor will not re-trigger.
- **Operating Mode:** Set different modes for day and night operation.
- **LED Indication:** Customize the LED pupil's behavior, including color, intensity, and when it illuminates.
- **Temperature Thresholds:** Define temperature change increments for reporting.

Refer to your Z-Wave hub's documentation or the FIBARO website for detailed instructions on accessing and modifying these parameters.

7. MAINTENANCE

7.1. Battery Replacement

The sensor is powered by a CR123A battery. When the battery level is low, your Z-Wave hub will typically report this status. Replace the battery as described in Section 5.1.

7.2. Cleaning

Clean the sensor's surface with a soft, dry cloth. Do not use chemical cleaners or abrasive materials, as they may damage the device.

8. TROUBLESHOOTING

- **Sensor not connecting to Z-Wave hub:** Ensure the sensor is within range of the hub. Try resetting the sensor and re-pairing. Check your hub's manual for specific pairing instructions.
- **Inaccurate temperature readings:** Ensure the sensor is not placed near heat sources (e.g., direct sunlight, vents) or cold drafts. Allow time for the sensor to acclimate to the room temperature.
- **False motion alerts:** Adjust the motion sensitivity setting in your Z-Wave hub's interface. Ensure the sensor is not pointing directly at windows or areas with significant air currents.
- **Rapid battery drain:** Check advanced settings for frequent reporting intervals or high sensitivity, which can increase battery consumption. Ensure you are using a fresh, high-quality CR123A battery.

9. SPECIFICATIONS

Feature	Detail
Brand	FIBARO
Model	FGMS-001

Feature	Detail
Power Source	Battery Powered
Battery Type	1 x CR123A (included)
Item Weight	22.68 g (0.8 ounces)
Product Dimensions	1.8 x 1.8 x 1.8 inches
Maximum Range	12 Meters
Mounting Type	Surface Mount
Included Components	Motion Sensor, User Manual, Mounting Brackets

10. WARRANTY AND SUPPORT

The FIBARO Motion Sensor (FGMS-001) comes with a **1-year warranty** from the date of purchase.

For detailed support, additional documentation, and troubleshooting guides, please visit the official FIBARO website's support portal. You can also find updated information and community forums there.

For further assistance, please contact FIBARO customer support.

Related Documents - FGMS-001

	Fibaro Motion Sensor FGMS-001 V2.4 Operating Manual and Technical Guide Comprehensive operating manual for the Fibaro Motion Sensor FGMS-001 V2.4, a Z-Wave multi-sensor that detects motion, measures temperature and light intensity, and includes tamper detection. Learn about installation, Z-Wave inclusion/exclusion, associations, advanced configuration, and troubleshooting.
	Fibaro Motion Sensor FGMS-001-USA-A-V1.01 Operating Manual - Z-Wave Smart Home Comprehensive operating manual for the Fibaro Motion Sensor (FGMS-001-USA-A-V1.01), a Z-Wave Plus multi-sensor detecting motion, temperature, and light. Learn about installation, configuration, Z-Wave inclusion, advanced parameters, and troubleshooting.
	FIBARO Motion Sensor FGMS-001 Operating Manual Comprehensive operating manual for the FIBARO Motion Sensor FGMS-001, detailing its features, installation, operation, advanced parameters, and Z-Wave integration.

[FIBARO Motion Sensor FGMS-001 Operating Manual](#)
Discover the FIBARO Motion Sensor FGMS-001. This operating manual provides detailed information on its features, installation, advanced settings, and Z-Wave Plus compatibility for smart home automation, including motion, temperature, and light detection.

[FIBARO Motion Sensor FGMS-001 Operating Manual | Smart Home Automation](#)
Comprehensive operating manual for the FIBARO Motion Sensor FGMS-001. Learn about its features, installation, operation, advanced parameters, and Z-Wave integration for smart home automation.

[FIBARO Motion Sensor FGMS-001 Operating Manual](#)
Comprehensive operating manual for the FIBARO Motion Sensor FGMS-001, detailing its features, installation, operation, advanced parameters, and specifications. Learn how to integrate this Z-Wave Plus device into your smart home system.