

Dieffematic SS 800-M

Dieffematic AMC SS 800-M Bidirectional Seismic Sensor User Manual

Model: SS 800-M

			Introduction	Safety Information	Product	
Overview	Setup	Operating	Maintenance	Troubleshooting	Specifications	Warranty & Support

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Dieffematic AMC SS 800-M Bidirectional Seismic Sensor. This device is designed to detect vibrations and seismic activity, providing an early warning system for security applications. Please read this manual thoroughly before using the product to ensure proper function and safety.

2. SAFETY INFORMATION

Always adhere to the following safety precautions to prevent damage to the device or injury to yourself.

- Do not expose the sensor to extreme temperatures, humidity, or direct sunlight.
- Do not attempt to open or modify the sensor. This will void the warranty and may cause malfunction.
- Keep the device away from strong magnetic fields.
- Ensure proper battery installation as per instructions to avoid polarity issues.
- Dispose of used batteries according to local regulations.
- This device is intended for indoor use unless otherwise specified.

3. PRODUCT OVERVIEW

The Dieffematic AMC SS 800-M is a sophisticated bidirectional seismic sensor operating at 868 MHz. It is designed to detect subtle vibrations and impacts, making it suitable for protecting safes, vaults, walls, and other solid structures against forced entry attempts. Its bidirectional communication ensures reliable signal transmission and status updates.

Key Features:

- Bidirectional 868 MHz wireless communication.
- High-sensitivity vibration detection.
- Battery-powered for flexible installation.
- Remote control capability via compatible systems (Smartphone, Computer).
- Tamper protection.

Components:

- Seismic Sensor Unit
- Mounting Bracket
- Batteries (if included)
- Mounting Screws and Anchors



Figure 1: Dieffematic AMC SS 800-M Bidirectional Seismic Sensor. This image shows the compact design of the sensor unit, typically mounted on a wall or safe.

4. SETUP AND INSTALLATION

4.1. Battery Installation

1. Carefully open the sensor casing.
2. Insert the required batteries (refer to specifications for type) into the battery compartment, ensuring correct polarity (+/-).
3. Close the casing securely.

4.2. Mounting Location

Choose a solid, stable surface for mounting, such as a concrete wall, safe, or vault. Avoid mounting on surfaces prone to natural vibrations or loose materials that could interfere with detection.

4.3. Mounting the Sensor

1. Position the mounting bracket on the chosen surface.
2. Mark the drilling points through the bracket holes.
3. Drill pilot holes if necessary and insert wall anchors.
4. Secure the mounting bracket using the provided screws.
5. Attach the seismic sensor unit to the mounted bracket, ensuring it clicks into place or is securely fastened.

4.4. Pairing with Control Panel/System

The AMC SS 800-M sensor must be paired with a compatible 868 MHz security control panel or system. Refer to your control panel's manual for specific pairing instructions. Generally, the process involves:

1. Putting your control panel into "learning" or "pairing" mode.
2. Activating the sensor (e.g., by pressing a tamper switch or a dedicated pairing button, if available, or by triggering a vibration).
3. Confirming successful pairing on the control panel.

Once paired, test the sensor's functionality by gently tapping the protected surface to ensure it triggers an alarm or notification on your system.

5. OPERATING THE SENSOR

The Dieffematic AMC SS 800-M operates in conjunction with your security system. Its primary function is to detect vibrations and transmit an alarm signal to the connected control panel.

5.1. Arming and Disarming

The sensor's active state is controlled by the arming/disarming status of your main security system. When the system is armed, the seismic sensor becomes active and will trigger an alarm upon detecting significant vibrations. When the system is disarmed, the sensor is typically bypassed or inactive.

5.2. Sensitivity Adjustment (if applicable)

Some seismic sensors offer adjustable sensitivity settings. If your model supports this, refer to your control panel or sensor's specific instructions for adjusting the detection threshold. This allows you to fine-tune the sensor to avoid false alarms while ensuring effective detection of threats.

5.3. Remote Monitoring

Through your compatible security system and its associated smartphone application or computer interface, you can monitor the status of your seismic sensor remotely. This includes receiving notifications for alarms, low battery warnings, and tamper alerts.

6. MAINTENANCE

6.1. Battery Replacement

The sensor is battery-powered. When the battery level is low, your security system will typically send a low battery notification. Replace batteries promptly to ensure continuous protection.

1. Disarm your security system before replacing batteries.
2. Open the sensor casing.
3. Remove the old batteries and dispose of them responsibly.
4. Insert new batteries of the correct type and polarity.
5. Close the casing securely.
6. Test the sensor to confirm it is functioning correctly with the new batteries.

6.2. Cleaning

Clean the sensor's exterior periodically with a soft, dry cloth. Do not use abrasive cleaners, solvents, or excessive moisture, as these can damage the device.

6.3. Regular Testing

It is recommended to test the seismic sensor regularly (e.g., monthly) to ensure it is communicating correctly with your control panel and detecting vibrations as expected. Refer to your security system's manual for testing procedures.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Sensor not responding	Dead or low batteries; Not paired; Out of range; Tamper switch not engaged.	Replace batteries; Re-pair the sensor with the control panel; Relocate sensor closer to the control panel; Ensure casing is closed properly.
False alarms	High sensitivity; Mounting surface instability; External vibrations (e.g., heavy traffic).	Reduce sensitivity (if adjustable); Re-mount on a more stable surface; Consider alternative mounting locations.
Low battery warning persists after replacement	Incorrect battery type/polarity; Faulty new batteries; System not updated.	Verify battery type and polarity; Try new batteries from a different pack; Arm/disarm system to refresh status.
Sensor not detecting vibrations	Low sensitivity; Sensor not armed; Faulty unit.	Increase sensitivity (if adjustable); Ensure security system is armed; Contact support if issue persists.

8. SPECIFICATIONS

Model:	AMC SS 800-M
Brand:	Dieffematic
Sensor Technology:	Vibration Sensor (Seismic)
Wireless Frequency:	868 MHz (Bidirectional)
Power Source:	Battery Powered

Compatible Devices:	Smartphone, Computer (via compatible control panel)
Control Method:	Remote (via compatible control panel)
Operating Environment:	Indoor use (typical)

9. WARRANTY AND SUPPORT

9.1. Warranty Information

Dieffematic products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Dieffematic website. Keep your proof of purchase for warranty claims.

9.2. Technical Support

If you encounter any issues that cannot be resolved using the troubleshooting guide, please contact your authorized Dieffematic dealer or technical support. Before contacting support, please have your product model number (SS 800-M) and a description of the problem ready.
For the most up-to-date support contact information, please visit the official Dieffematic website.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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