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Venitem MURANO-LS

Venitem MURANO-LS Self-Powered Anti-Foam Siren Instruction Manual

Model: MURANO-LS | Brand: Venitem

1. INTRODUCTION

The Venitem MURANO-LS is a self-powered anti-foam siren designed for robust security applications. It features advanced technical capabilities including automatic speaker and battery efficiency testing, LED flasher with alarm memory, and flexible installation signaling. Built with SMD technology and protected against polarity reversal, this siren ensures reliable performance in various environments. Its IP44 rating guarantees protection against dust and splashing water.



Figure 1: Venitem MURANO-LS Self-Powered Anti-Foam Siren. This image displays the external view of the siren, typically mounted on a wall, showcasing its design and robust casing.

2. SAFETY INFORMATION

- **Read all instructions:** Before installation and operation, carefully read and understand all instructions in this manual.
- **Qualified personnel:** Installation and maintenance should only be performed by qualified personnel to ensure safety and proper functioning.
- **Power supply:** Ensure the power supply matches the product specifications (12 V DC). Disconnect power before any installation or maintenance.
- **Polarity:** The electronic circuit is protected against polarity reversal, but always ensure correct wiring to prevent damage.
- **Mounting:** Mount the siren securely on a stable surface to prevent accidental detachment.
- **Sound pressure:** The siren produces a high sound pressure level (105 dB at 3m). Avoid prolonged exposure to prevent hearing damage.
- **Environmental conditions:** The siren is rated IP44, providing protection against splashing water and solid objects larger than 1mm. Do not immerse the device in water.

3. SETUP AND INSTALLATION

3.1. Components Overview

- ABS plastic siren base
- Centering bulb
- Inner and outer covers (varnished ABS, pearlescent or metallic colors)
- LED flasher (smoked dome)
- Double magnetic reed tamper switch (anti-opening and anti-tear)
- Electronic circuit board (SMD technology, resin-immersed)
- Battery housing (for 12 V 2.2 Ah battery, battery not included)

3.2. Mounting the Siren

1. Select a suitable mounting location, ensuring it is secure and provides optimal sound coverage.
2. Open the siren casing by disengaging the tamper switches.
3. Use the ABS plastic siren base as a template to mark drilling points on the wall.
4. Drill holes and secure the siren base to the wall using appropriate fasteners.
5. Ensure the centering bulb is correctly positioned.

3.3. Wiring and Power Connection

1. Connect the 12 V DC power supply to the designated terminals. The electronic circuit is protected against polarity reversal.
2. Install a 12 V 2.2 Ah battery (not included) into the battery housing. Ensure correct polarity.
3. Connect the control wires for activation. The siren supports 2 or 3-wire activation and programming for positive or negative control.
4. Connect the ON-OFF installation signaling wires (for permanent or timed signaling).
5. Verify all connections are secure and correct before proceeding.

3.4. Programming

The MURANO-LS siren offers flexible programming options:

- **Control Input:** Program for positive or negative control signals.
- **Activation Mode:** Choose between 2-wire or 3-wire activation.
- **Sound and Timing:** Select from 4 distinct sound programs and timing configurations.
- **Alarm Cycles:** Configure for 4 daily alarm cycles or infinite cycles.
- Refer to the detailed wiring diagram (not provided in this manual, typically found in a separate installation guide) for specific programming jumper or switch settings.

4. OPERATING INSTRUCTIONS

4.1. Initial Power-Up

1. After completing installation and wiring, apply 12 V DC power to the siren.
2. The siren will perform an automatic test of the speaker and battery efficiency.
3. Observe the LED flasher for initial status indications.

4.2. Alarm Activation

When an alarm signal is received from the control panel (via the programmed 2 or 3-wire input):

- The siren will activate, emitting the pre-programmed sound.
- The LED flasher will activate, providing visual indication of the alarm.
- The flasher includes an alarm memory function, indicating if an alarm occurred even after it has ceased.

4.3. Siren Failure Output

The siren provides an output signal in case of a siren failure, allowing it to be connected to a control panel for remote monitoring of its operational status.

5. MAINTENANCE

- **Regular Cleaning:** Periodically clean the exterior of the siren with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Battery Check:** The siren performs an automatic battery efficiency test. If a battery fault is indicated (e.g., via the siren failure output or specific LED patterns, refer to your control panel manual), replace the 12 V 2.2 Ah battery with a new one of the same specifications.
- **Tamper Switches:** Ensure the double magnetic reed tamper switches are clean and free from obstructions to guarantee proper anti-opening and anti-tear protection.
- **Visual Inspection:** Regularly inspect the siren for any signs of physical damage, loose connections, or environmental wear.
- **Professional Inspection:** It is recommended to have the siren professionally inspected and serviced by a qualified technician at least once a year.

6. TROUBLESHOOTING

This section provides solutions to common issues. For problems not listed here, or if the issue persists, please contact Venitem technical support or your installer.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Siren does not activate	No power supply; Incorrect wiring; Control signal not received; Dead battery.	Check 12 V DC power connection; Verify all wiring connections; Ensure control panel is sending an alarm signal; Check and replace battery if necessary.
LED flasher not working	Flasher fault; Power issue.	Check power supply; Contact technical support if flasher remains inactive during an alarm.
Siren failure output active (false alarm)	Tamper switch triggered; Internal fault; Low battery.	Ensure siren casing is properly closed and secured; Check battery status; Contact technical support.
Siren sounds continuously or erratically	Faulty control signal; Internal circuit issue.	Verify control panel output; Disconnect power and reconnect; If issue persists, contact technical support.

7. TECHNICAL SPECIFICATIONS

Feature	Specification
Model	MURANO-LS
Brand	Venitem
Power Supply	12 V DC
Quiescent Current	15 mA
Alarm Current (with battery)	500 mA
Sound Pressure Level	105 dB(A) at 3 m
Battery Housing	For 12 V 2.2 Ah battery (battery not included)
Dimensions (WxHxD)	236 x 312 x 109 mm
Protection Rating	IP44
Certifications	IMQ Level II
Features	Automatic speaker/battery test, Siren failure output, LED flasher with alarm memory, ON-OFF installation signaling, 4 sound/timing programs, 2/3-wire activation, Double magnetic reed tamper.
Construction	ABS plastic base, resin-immersed SMD electronic circuit, varnished ABS covers.

8. WARRANTY AND SUPPORT

8.1. Warranty Information

Specific warranty details for the Venitem MURANO-LS siren are typically provided at the point of purchase or within separate documentation included with the product. Please retain your proof of purchase for warranty claims. The warranty generally covers manufacturing defects under normal use. Damage resulting from improper installation, misuse, or unauthorized modifications is not covered.

8.2. Technical Support

For technical assistance, troubleshooting, or inquiries regarding your Venitem MURANO-LS siren, please contact your authorized Venitem dealer or the installer of your security system.

You may also visit the official Venitem website for further information or to find contact details for customer support in your region.