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> Orno ZS-802 Waterproof Code Lock User Manual

## Orno ZS-802

# Orno ZS-802 Waterproof Code Lock User Manual

Model: ZS-802 | Brand: Orno

## 1. INTRODUCTION

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The Orno ZS-802 is a robust, waterproof code lock designed for secure access control. It offers multiple methods of entry, including PIN codes, RFID cards, and contactless key fobs. Featuring a durable zinc alloy construction and an illuminated keypad, this device is suitable for both indoor and outdoor installations, providing reliable security for various applications.



Figure 1.1: Orno ZS-802 code lock installed on an office door, demonstrating its application in a professional setting.

## 2. PRODUCT FEATURES

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- **Built-in Memory:** All programmed codes and parameters are securely stored in non-volatile memory, ensuring settings are retained even during power failures.
- **Weatherproof Design:** With an IP44 ingress protection rating, the device is protected against splashing water from any direction, making it suitable for outdoor installation.
- **Illuminated Keypad:** The keypad features backlighting for easy visibility and operation in low-light conditions or at night.
- **Multiple Access Methods:** Supports three distinct ways to open the door: a 4-6 digit PIN code (up to 10,000 combinations), an RFID card, or a contactless key fob.
- **Advanced Microprocessor Technology:** Utilizes modern microprocessor technology for efficient and secure door locking and access control systems.
- **Versatile Application:** Compatible with electromagnetic locks, various access control systems, and can control other electrical or alarm devices.



**Figure 2.1:** Visual representation of the Orno ZS-802's key features, including its IP44 rating, 12VDC power, wired connection, and compatibility with RFID cards and key fobs.

### 3. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and security of the Orno ZS-802. It is recommended that installation be performed by a qualified technician.

#### 3.1 Mounting

1. Choose a suitable mounting location, ensuring it is flat and stable. The device is waterproof (IP44) and can be installed outdoors.

2. Use the provided mounting template (if available) to mark drilling points for the mounting screws and cable entry.
3. Drill the necessary holes and secure the backplate of the unit to the wall using appropriate screws.

## **3.2 Wiring**

The Orno ZS-802 operates on 12VDC power. Carefully follow the wiring diagram provided in the full product manual for correct connection to your power supply, electric lock, and any other access control components. Ensure all connections are secure and insulated.



Figure 3.1: Rear view of the Orno ZS-802, illustrating the wiring harness for electrical connections. Refer to the detailed wiring diagram in the complete manual for specific connections.

## 4. OPERATING INSTRUCTIONS

The Orno ZS-802 provides simple and intuitive operation for daily use.

## 4.1 Accessing with a PIN Code

1. Ensure the keypad is illuminated. If not, press any key to activate it.
2. Enter your 4-6 digit user PIN code.
3. Press the # key to confirm.
4. If the code is correct, the lock will disengage for a preset duration, indicated by an audible signal or LED indicator.

## 4.2 Accessing with an RFID Card or Key Fob

1. Hold your registered RFID card or key fob close to the reader area on the device.
2. The device will emit an audible signal or show an LED indicator upon successful reading.
3. If the card/fob is recognized, the lock will disengage for a preset duration.



Figure 4.1: A user interacting with the illuminated keypad of the Orno ZS-802 to enter an access code.

## 5. PROGRAMMING

The Orno ZS-802 requires programming to set up master codes, user codes, and to register RFID cards/fobs. Always perform programming steps carefully.

### 5.1 Entering Programming Mode

1. Press \*.
2. Enter the current Master Code (default is typically 123456 or similar, refer to the full manual for the exact default).
3. Press #. The device will indicate entry into programming mode (e.g., a specific LED color or sound).

### 5.2 Changing the Master Code

1. Enter Programming Mode.
2. Press **0** (or the designated key for Master Code change).
3. Enter the new 6-digit Master Code.
4. Press **#** to confirm.
5. Re-enter the new Master Code and press **#** again to verify.
6. Exit Programming Mode (usually by pressing **\*** or waiting for timeout).

### 5.3 Adding a User PIN Code

1. Enter Programming Mode.
2. Press **1** (or the designated key for adding user codes).
3. Enter a unique User ID (e.g., 001-999).
4. Press **#**.
5. Enter the new 4-6 digit User PIN Code.
6. Press **#** to confirm.
7. Repeat for additional user codes or exit Programming Mode.

### 5.4 Adding an RFID Card/Key Fob

1. Enter Programming Mode.
2. Press **2** (or the designated key for adding cards).
3. Present the RFID card or key fob to the reader. The device will register it.
4. Repeat for additional cards/fobs or exit Programming Mode.

### 5.5 Deleting User PIN Codes or RFID Cards/Fobs

Specific deletion methods vary. Typically, you would enter Programming Mode, select a deletion option (e.g., delete by User ID, delete all), and confirm. Refer to the comprehensive manual for precise steps.

## 6. MAINTENANCE

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The Orno ZS-802 is designed for low maintenance. Regular care ensures its longevity and reliable operation.

- **Cleaning:** Wipe the keypad and housing with a soft, damp cloth. Avoid abrasive cleaners, solvents, or harsh chemicals that could damage the finish or electronic components.
- **Inspection:** Periodically check for any signs of physical damage, loose connections, or wear. Ensure the mounting is secure.
- **Power Supply:** As the device is wired for 12VDC, ensure a stable power supply. In case of power fluctuations, consider a surge protector.

## 7. TROUBLESHOOTING

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If you encounter issues with your Orno ZS-802, refer to the following common problems and solutions:

| Problem                            | Possible Cause                                     | Solution  |
|------------------------------------|--|---|
| Lock does not respond to PIN/card. | Incorrect PIN, unregistered card/fob, power issue. | Verify PIN, ensure card/fob is registered. Check power supply and wiring. |

| Problem                                    | Possible Cause                | Solution   |
|--|-------------------------------|--|
| Keypad not illuminating.                   | Power issue, keypad fault.    | Check power supply and wiring. Contact support if power is confirmed.                |
| Lock disengages for too short/long a time. | Incorrect relay time setting. | Enter programming mode and adjust the relay duration setting (refer to full manual). |
| Device beeps continuously.                 | Tamper alarm, error state.    | Check for tampering. Enter Master Code to clear alarm. If persistent, check wiring.  |

## 8. SPECIFICATIONS

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Detailed technical specifications for the Orno ZS-802 Waterproof Code Lock:

**Brand:** Orno

**Model:** ZS-802

**Lock Type:** Combination Lock, Keypad

**Special Feature:** Keyless entry, Built-in Memory, Illuminated Keypad, Weatherproof

**Material:** Zinc Alloy

**Color:** Silver

**Power Supply:** 12VDC

**Ingress Protection:** IP44 (Protected against splashing water)

**Item Dimensions (L x W x H):** 3.23 x 5.04 x 1.1 inches (8.2 x 12.8 x 2.8 cm)

**Item Weight:** 0.6 Kilograms

**Recommended Uses:** Security, Access Control Systems



Figure 8.1: Dimensions of the Orno ZS-802 code lock, showing measurements in both centimeters and inches.

## 9. SAFETY INFORMATION

Please read and adhere to the following safety guidelines to prevent injury or damage to the device:

- Ensure the power supply is disconnected before performing any installation or maintenance.
- Do not attempt to disassemble or modify the device. This may void the warranty and pose safety risks.
- Keep the device away from strong magnetic fields or sources of extreme heat.
- Use only the specified 12VDC power supply. Incorrect voltage can damage the unit.
- Protect the device from severe impacts or physical abuse.

## 10. WARRANTY AND SUPPORT

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For warranty information, technical support, or service inquiries, please contact your retailer or the manufacturer directly. Keep your purchase receipt as proof of purchase.

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