

Hormann 436355

Hormann CTR1D Code Keypad 1-Relay Instruction Manual

Model: 436355

1. INTRODUCTION

The Hormann CTR1D Code Keypad is a fixed comfort accessory designed for outdoor use, providing secure access control. This device features one relay for a single function, such as operating a garage door or gate. It includes a flip-up protective cover for durability and operates on a 24 V AC/DC connection voltage. This manual provides essential information for the safe installation, operation, and maintenance of your CTR1D Code Keypad.

2. SAFETY INSTRUCTIONS

Please read these safety instructions carefully before installation and operation to prevent personal injury or damage to the product.

- **Electrical Safety:** Installation and wiring must be performed by a qualified electrician in accordance with local electrical codes and regulations. Ensure the power supply is disconnected before any installation or maintenance work.
- **Outdoor Use:** The keypad is designed for outdoor use. Ensure all connections are properly sealed to prevent water ingress.
- **Voltage:** The device requires a 24 V AC/DC power supply. Do not connect to higher voltages.
- **Children:** Keep children away from the keypad during operation and installation. Do not allow children to play with the device.
- **Intended Use:** Use the keypad only for its intended purpose as an access control device for garage doors or gates.

3. PACKAGE CONTENTS

Verify that all components are present in the package:

- Hormann CTR1D Code Keypad (1 unit)

- Relay Control Unit
- Mounting hardware (screws, anchors)
- Instruction Manual (this document)

4. PRODUCT OVERVIEW

Familiarize yourself with the main components of the Hormann CTR1D Code Keypad.



Figure 4.1: Keypad with Protective Cover Open

This image shows the keypad with its protective cover lifted, revealing the numeric buttons (0-9), directional arrows, and a STOP button. The Hormann logo is visible at the bottom.



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Figure 4.2: Keypad with Protective Cover Closed

This image displays the keypad in its closed state, highlighting its compact and weather-resistant design. The Hormann logo is visible at the bottom.



Figure 4.3: Relay Control Unit

This image shows the separate relay control unit, a grey rectangular box with several cable glands for secure wiring connections. The Hormann logo is also present on this unit.

5. SETUP AND INSTALLATION

Proper installation is crucial for the reliable operation of your code keypad. Ensure all safety instructions are followed.

5.1 Mounting the Keypad and Control Unit

1. **Choose Location:** Select a suitable outdoor location for the keypad, ensuring it is easily accessible but protected from direct impact. The control unit should be mounted securely indoors or in a protected outdoor enclosure.
2. **Mark Drilling Points:** Use the keypad and control unit as templates to mark the drilling points for mounting screws.
3. **Drill Holes:** Drill holes at the marked points and insert appropriate wall anchors if necessary.

4. **Secure Units:** Mount the keypad and control unit firmly using the provided screws.

5.2 Electrical Connection

The CTR1D Code Keypad requires a 24 V AC/DC power supply. A power supply cable is not included. The connection to your garage door operator or gate system is made via the relay control unit.

- **Power Supply (24 V AC/DC):** Connect the 24 V AC/DC power supply to the designated terminals on the relay control unit. Refer to the wiring diagram provided with your specific garage door operator for exact terminal identification.
- **Keypad to Control Unit:** Connect the keypad to the relay control unit using the appropriate cable. Ensure correct polarity if specified.
- **Impulse Connection (Relay Output):** The relay output from the control unit connects to the impulse input of your garage door operator. For Hormann Supramatic 3 operators, connect the impulse terminals on the relay control unit (typically the extreme right terminals) to terminals 20 and 21 on the Supramatic 3 motor.
- **Common Ground/Power for Supramatic 3:** For Supramatic 3 operators, connect the power supply terminals (24V DC/AC) on the relay control unit to terminals 20 and 5 on the Supramatic 3 motor.
- **Secure Connections:** Ensure all cable glands are tightened to maintain weather resistance.

Note: The specific wiring terminals may vary depending on your garage door operator model. Always consult the instruction manual of your garage door operator for precise wiring diagrams. If you are unsure, consult a qualified technician.

6. OPERATING INSTRUCTIONS

This section describes how to program and use your Hormann CTR1D Code Keypad.

6.1 Programming Access Codes

The keypad allows you to set up one or more access codes to activate the relay function. Refer to the specific programming instructions provided with the keypad for detailed steps. Generally, the process involves:

1. **Enter Programming Mode:** This usually involves pressing a specific key combination or a dedicated programming button on the control unit.
2. **Enter Master Code:** If applicable, enter the existing master code.
3. **Set New Code:** Input your desired access code (typically 4-6 digits).
4. **Confirm Code:** Re-enter the new code to confirm.
5. **Exit Programming Mode:** Save the changes and exit programming mode.

Important: Keep your access codes confidential. Change codes periodically for enhanced security.

6.2 Using the Keypad

To operate your garage door or gate:

1. Lift the protective cover.
2. Enter your programmed access code using the numeric buttons.
3. Press the designated activation button (e.g., an arrow key or a specific function key) to send the impulse to the connected device.
4. The relay will activate for a short duration, triggering the connected device (e.g., opening/closing the garage door).

- 5. Close the protective cover after use.

The "STOP" button can be used to halt an ongoing operation if supported by the connected device.

7. MAINTENANCE

The Hormann CTR1D Code Keypad is designed for low maintenance. Follow these guidelines to ensure its longevity:

- **Cleaning:** Clean the keypad surface periodically with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these can damage the plastic.
- **Protective Cover:** Ensure the flip-up protective cover is always closed when not in use to protect the keypad from weather elements and dirt.
- **Inspections:** Periodically check the wiring connections for any signs of wear or damage. Ensure all screws are tight.

8. TROUBLESHOOTING

If you encounter issues with your CTR1D Code Keypad, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Keypad does not respond.	No power supply; incorrect wiring; faulty unit.	Check 24 V AC/DC power connection to the control unit. Verify all wiring connections are secure and correct. If issues persist, contact support.
Garage door/gate does not open/close.	Incorrect access code; incorrect impulse wiring; issue with garage door operator.	Ensure the correct access code is entered. Verify the impulse connection between the control unit and the garage door operator (e.g., terminals 20 and 21 for Supramatic 3). Check the garage door operator's functionality independently.
Keypad programming fails.	Incorrect programming steps; existing master code issue.	Review the programming instructions carefully. Ensure you are in the correct programming mode. If a master code is required, ensure it is entered correctly.
No backlight on keypad.	The CTR1D model does not feature keypad backlighting.	This is not a malfunction. The Hormann CTR1D model does not include an illuminated keypad.

9. SPECIFICATIONS

Technical details for the Hormann CTR1D Code Keypad:

- **Model:** CTR1D
- **Part Number:** 436355
- **Function:** 1 Relay for 1 function
- **Power Supply:** 24 V AC/DC (power supply cable not included)
- **Dimensions (Keypad):** Approximately 8 x 8 x 1.5 cm (3.15 x 3.15 x 0.59 inches)
- **Weight:** Approximately 349.27 grams (0.77 lbs)

- **Material:** Plastic
- **Color:** Multicolore (Multicolor - though images show grey)
- **Operating Environment:** Outdoor use
- **Manufacturer:** Hormann
- **Country of Origin:** Germany



Figure 9.1: Keypad Dimensions

This image illustrates the approximate dimensions of the keypad, showing a length of 4.9 inches (12 cm).

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Hormann website or contact your authorized Hormann dealer. Keep your purchase receipt as proof of purchase.

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