

## Sygonix SY-4760956

# Sygonix SY-4760956 Embedded RFID Code Keypad User Manual

Model: SY-4760956

## 1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Sygonix SY-4760956 Embedded RFID Code Keypad. This device is designed to provide secure access control using PIN codes, RFID cards, or a combination of both. Please read this manual thoroughly before installation and use to ensure proper function and safety.

### Key Features:

- Wiegand input and output for use as a controller or Wiegand reader.
- IP66 compliant for outdoor installation and weather resistance.
- Multiple access modes: PIN, RFID card, or PIN + RFID card.
- Supports up to 1000 access authorizations (990 permanent users, 10 guest users).
- Integrated Photoresistor (LDR) with anti-tamper function for enhanced security.
- Durable anti-vandal metal housing.

## 2. SAFETY INFORMATION

Observe the following safety precautions to prevent injury or damage to the device:

- Installation should be performed by qualified personnel in accordance with local electrical codes.
- Ensure the power supply is disconnected before any installation or wiring work.
- Use only the specified voltage (12V/DC to 18V/DC).
- Do not expose the device to extreme temperatures, humidity, or corrosive environments beyond its IP66 rating.
- Do not attempt to disassemble or modify the device. This will void the warranty and may cause damage or injury.
- Keep packaging materials away from children.

### 3. PRODUCT OVERVIEW AND COMPONENTS

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Familiarize yourself with the keypad and its included components.



**Image 3.1:** Front view of the Sygonix SY-4760956 RFID Code Keypad alongside its embedded mounting box. The keypad features a numeric input panel and an indicator light.



**Image 3.2:** All components included with the Sygonix SY-4760956 keypad: the keypad unit, embedded mounting box, mounting screws, wall anchors, a diode, a hex key, and a master card for programming.

### 3.1 Keypad Unit

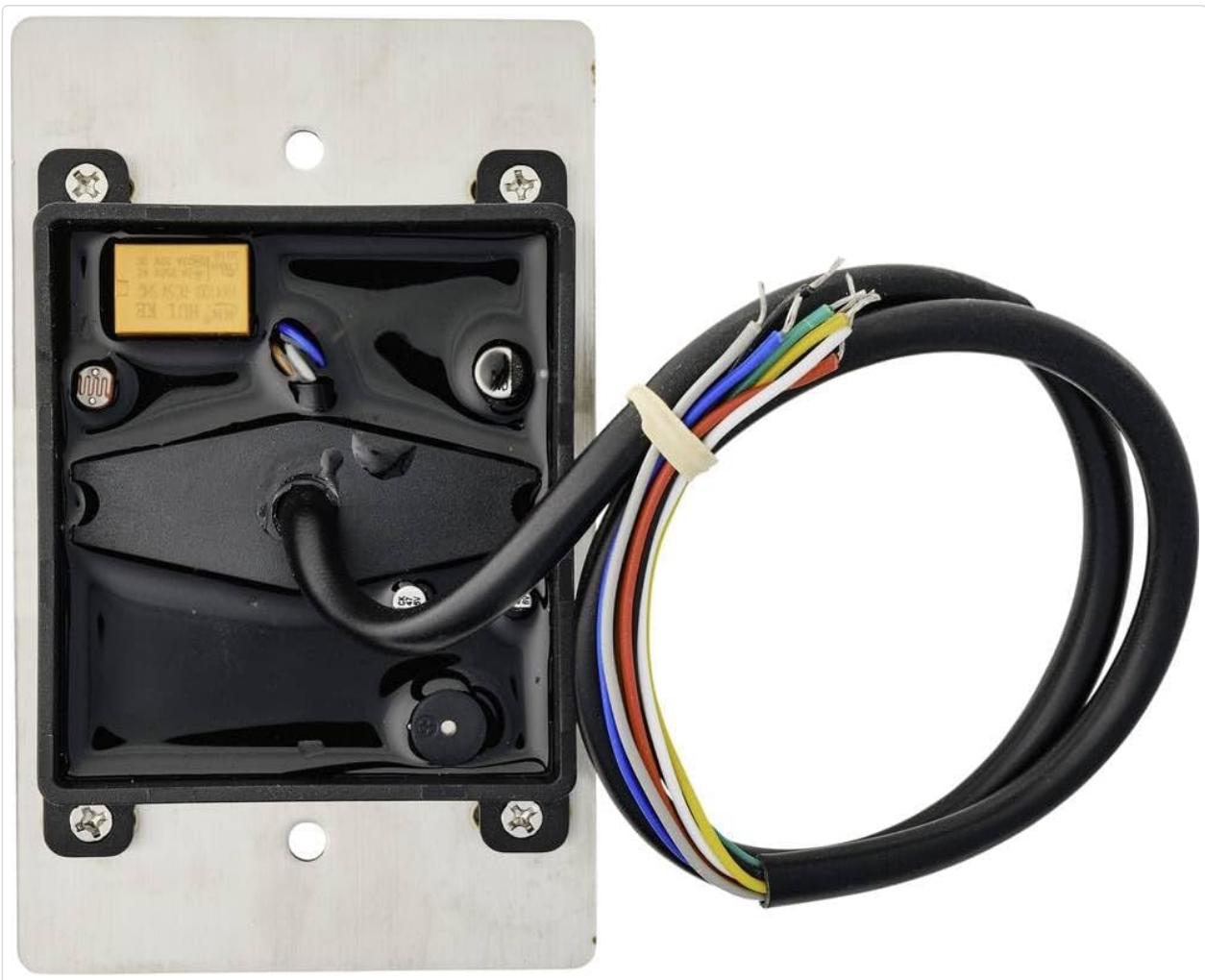
- **Keypad:** Numeric keys (0-9), asterisk (\*), and hash (#) for PIN entry and programming.
- **Indicator Light:** Provides visual feedback on status (e.g., access granted, access denied, programming mode).
- **RFID Reader:** Integrated for card-based access.

### 3.2 Mounting Box

The embedded mounting box is designed for flush installation, providing a secure and discreet fit.

### 3.3 Wiring Harness

A multi-colored wiring harness extends from the rear of the keypad for power, lock control, and Wiegand connections.



**Image 3.3:** Rear view of the keypad, illustrating the sealed electronics and the multi-colored wiring harness for connection to power and access control systems.

## 4. SETUP AND INSTALLATION

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The Sygonix SY-4760956 is designed for screw-mounted, embedded installation. It can be installed outdoors due to its IP66 rating.

### 4.1 Mounting the Keypad

1. **Prepare the Mounting Location:** Choose a suitable location for embedded installation. Ensure there is enough space behind the wall or surface for the mounting box and wiring.
2. **Cut the Opening:** Carefully cut an opening in the wall or surface according to the dimensions of the embedded mounting box (approximately 2.5 x 7 x 11.5 cm).
3. **Secure the Mounting Box:** Insert the mounting box into the prepared opening and secure it using appropriate fasteners.
4. **Attach the Keypad:** Connect the wiring harness (see Section 4.2) and then secure the keypad unit to the mounting box using the provided screws.

### 4.2 Wiring Connections

The keypad requires a 12V/DC to 18V/DC power supply. The multi-colored wires from the keypad harness must be connected to your access control system and power supply. Refer to the wiring diagram provided with your specific access control system for detailed connections. Common connections include:

- **Power:** Connect to a stable 12V/DC or 18V/DC power source.
- **Lock Control:** Wires for connecting to an electric lock (e.g., NO/NC contacts).
- **Wiegand Data:** Wiegand 26-bit or 34-bit output for integration with external access controllers.
- **Alarm/Tamper:** Connections for anti-tamper switch and alarm output.

**Note:** The length of the connection wires may vary. Ensure all connections are secure and insulated to prevent short circuits.

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## 5. OPERATING INSTRUCTIONS

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The keypad supports various access methods and programming functions.

### 5.1 Initial Setup and Master Card

1. Upon first power-up, the keypad is in a default state.
2. Present the included **Master Card** to the keypad to enter programming mode. The indicator light will change, and an audible signal may sound.
3. Follow the specific programming steps in your full instruction manual (if provided) to set up administrator PINs and register user cards/PINs.

### 5.2 User Management

The system allows for 1000 total access authorizations:

- **990 Permanent Users:** For regular access via PIN or RFID card.
- **10 Guest Users:** For temporary access, which can be easily added or removed.

Refer to the detailed programming guide for adding, deleting, and modifying user PINs and RFID cards.

### 5.3 Accessing the Controlled Area

- **PIN Access:** Enter your assigned PIN code followed by the '#' key.
- **RFID Card Access:** Present your registered RFID card to the keypad.
- **PIN + RFID Card Access:** Present your registered RFID card, then enter your assigned PIN code followed by the '#' key.

Upon successful authentication, the indicator light will typically turn green, and the lock will disengage for a preset duration. An audible signal will confirm access.

### 5.4 Anti-Tamper Function

The integrated LDR (Photoresistor) detects attempts to tamper with the device. If tampering is detected, an alarm may be triggered, and the system may enter a lockout state. This feature enhances security against unauthorized physical interference.

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## 6. MAINTENANCE

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The Sygonix SY-4760956 keypad is designed for durability and requires minimal maintenance.

- **Cleaning:** Wipe the keypad surface with a soft, damp cloth. Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the finish or electronic components.

- **Inspection:** Periodically check the keypad for any signs of physical damage or loose connections. Ensure the mounting screws are tight.
- **Environmental Protection:** While IP66 rated, avoid directing high-pressure water jets directly at the keypad.

## 7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Keypad is unresponsive / No power	No power supply; Incorrect wiring; Faulty power adapter.	Check power connections and ensure correct voltage (12-18V/DC). Verify wiring according to the diagram. Test power adapter.
Access denied with correct PIN/Card	PIN/Card not registered; Incorrect access mode selected; Keypad in lockout mode.	Ensure the PIN/Card is correctly registered. Verify the access mode (PIN, Card, or PIN+Card). Check if the anti-tamper alarm has been triggered.
Lock does not open after successful authentication	Lock wiring issue; Faulty lock; Incorrect lock type setting.	Check the wiring between the keypad and the lock. Test the lock independently. Verify the lock type (NO/NC) setting in the keypad's programming.
Keypad beeps continuously or alarm sounds	Tamper alarm triggered; Incorrect programming.	Inspect the keypad for signs of tampering. Refer to the programming guide to reset the alarm or adjust tamper sensitivity.

If the problem persists after attempting these solutions, please contact customer support.

## 8. SPECIFICATIONS

Feature	Specification
Manufacturer	Sygonix
Model Number	SY-4760956
Dimensions (L x W x H)	2.5 x 7 x 11.5 cm (0.98 x 2.76 x 4.53 inches)
Weight	209 Grams (0.46 lbs)
Color	Black/Silver
Power Supply	Wired (Cable électrique)
Voltage	12V/DC - 18V/DC
Installation Method	Screw-mounted, Embedded



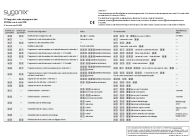
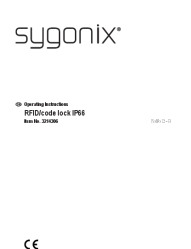
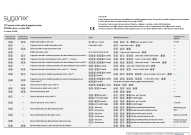
Feature	Specification
Connectivity Technology	Wired (Wiegand input/output)
IP Rating	IP66 (Dust tight and protected against powerful water jets)
Access Capacity	1000 users (990 permanent, 10 guest)
Alert Type	Audio only
Control Method	Push button

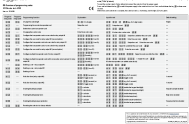
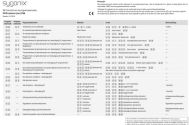
## 9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided at the time of purchase or contact your retailer. Sygonix products are designed for reliability and performance.

If you require technical assistance or have questions not covered in this manual, please contact Sygonix customer support or your authorized dealer. When contacting support, please have your product model number (SY-4760956) and purchase details available.

### Related Documents - SY-4760956

	<p><a href="#">Sygonix RFID/Code Lock IP66 Programming Codes Overview</a></p> <p>This document provides an overview of the programming codes for the Sygonix RFID/Code Lock IP66, detailing configuration functions, input formats, and default parameters.</p>
	<p><a href="#">Sygonix RFID/Code Lock IP66 Operating Instructions</a></p> <p>Comprehensive operating instructions for the Sygonix RFID/Code Lock IP66, detailing installation, programming, features, and safety guidelines.</p>
	<p><a href="#">Sygonix RFID/Code Lock IP66 Programming Codes Overview</a></p> <p>This document provides a comprehensive overview of the programming codes for the Sygonix RFID/Code Lock IP66, detailing functions, values, insertion modes, and factory settings for various programming operations.</p>

<div><div>sygonix®</div><div>© Operating Instructions RFID code lock IP66 Rev. No. 010005</div><div>1.000-01.01</div><div>CE</div></div>	<div><a href="#">Sygonix RFID/Code Lock IP66 Operating Instructions</a></div> <div>Comprehensive operating instructions for the Sygonix RFID/Code Lock IP66, detailing installation, programming, features, and safety guidelines for secure access control.</div>
<div><div>SYGONIX®</div><div>Operating Instructions RFID code lock IP66 Rev. No. 010005</div><div>1.000-01.01</div></div> <div></div>	<div><a href="#">Sygonix RFID/Code Lock IP66 Programming Codes Overview</a></div> <div>A comprehensive guide to the programming codes for the Sygonix RFID/Code Lock IP66, detailing functions, input formats, and default settings for various operations.</div>
<div><div>SYGONIX®</div><div>Operating Instructions RFID/Keypad Lock IP66 Rev. No. 010005</div><div>1.000-01.01</div></div> <div></div>	<div><a href="#">Sygonix RFID/Keypad Lock Programming Codes Overview</a></div> <div>Detailed overview of programming codes for the Sygonix RFID/Keypad Lock (Model: RFID/codeslot (dun) IP66), including functions, values, and input methods for managing access and settings. Learn how to program transponder cards, user codes, and configure lock features.</div>