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› Sygonix SY-3776414 Fingerprint/RFID Access System Surface-Mounted 12 V/DC IP66 User Manual

## sygonix SY-3776414

# Sygonix SY-3776414 Fingerprint/RFID Access System

User Instruction Manual

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Sygonix SY-3776414 Fingerprint/RFID Access System. This system is designed for secure access control, offering both fingerprint and RFID card authentication. Its robust, surface-mounted design with IP66 rating ensures durability and resistance to environmental factors and vandalism.

Please read this manual thoroughly before operating the device to ensure proper function and safety.

## 2. SAFETY INFORMATION

- **Electrical Safety:** Installation should only be performed by qualified personnel. Ensure the power supply is disconnected before any wiring work. The system operates on 12 V/DC.
- **Environmental Protection:** Although rated IP66 for water and dust resistance, avoid submerging the device or exposing it to extreme conditions beyond its specified operating range.
- **Vandal-Proof Design:** The system is designed to be vandal-proof. However, excessive force or deliberate damage can still compromise its integrity.
- **Children and Pets:** Keep the device and its components out of reach of children and pets to prevent accidental damage or injury.
- **Disposal:** Dispose of the product and its components in accordance with local regulations for electronic waste.

## 3. PRODUCT OVERVIEW

The Sygonix SY-3776414 is a comprehensive access control solution. It supports up to 3000 users and offers flexible authentication methods.

### 3.1 Components



**Figure 3.1:** The main access control unit with its integrated fingerprint scanner and RFID reader, alongside the wireless remote control for system management.



**Figure 3.2:** All included components: the access unit, remote control, Master Add Card, Master Delete Card, mounting screws, wall plugs, and a small hex key for installation.

- **Main Unit:** Features a fingerprint scanner, RFID card reader, and status indicators.
- **Remote Control:** Used for programming and managing users (adding/deleting fingerprints and RFID cards).
- **Master Add Card:** Used to enter programming mode for adding new users.
- **Master Delete Card:** Used to enter programming mode for deleting existing users.
- **Mounting Hardware:** Includes screws and wall plugs for surface mounting.

### 3.2 Key Features

- **User Capacity:** Supports up to 3000 users.
- **Multiple Authentication Methods:** Access via fingerprint or RFID card.
- **Vandal-Proof Design:** Enhanced durability for outdoor and high-traffic environments.
- **IP66 Rated:** Provides protection against dust ingress and powerful water jets.
- **Surface-Mounted:** Easy installation on various surfaces.

## 4. SETUP AND INSTALLATION

Before installation, ensure you have the necessary tools (drill, screwdriver, wire strippers) and a stable 12V/DC power source.

### 4.1 Mounting the Unit

1. Choose a suitable surface for mounting, ensuring it is flat and secure.
2. Use the main unit as a template to mark the drilling points for the mounting screws.
3. Drill holes at the marked points and insert the provided wall plugs if necessary.
4. Secure the main unit to the surface using the provided screws.

## 4.2 Wiring

The system requires a 12V/DC power supply. Refer to the wiring diagram provided with the product packaging for specific connections. Common connections include:

- **Power Input:** Connect the 12V/DC power supply to the designated terminals (usually marked +12V and GND).
- **Lock Output:** Connect to your electronic lock mechanism (e.g., electric strike, magnetic lock). Ensure compatibility with the system's output specifications.
- **Exit Button (Optional):** Connect an external exit button if desired.
- **Alarm Output (Optional):** Connect to an alarm system if required.

After wiring, ensure all connections are secure and insulated to prevent short circuits.

## 5. OPERATING INSTRUCTIONS

### 5.1 Initial Power-Up and Master Card Registration

1. Apply 12V/DC power to the system. The status indicator will light up.
2. The system is initially in a default state. To begin programming, swipe the **Master Add Card** over the RFID reader. The system will enter programming mode.
3. Swipe the **Master Delete Card** over the RFID reader. This registers both master cards with the system.

### 5.2 Adding Users (Fingerprint or RFID Card)



**Figure 5.1:** A user interacting with the fingerprint scanner on the Sygonix access control unit, typically mounted near a door.

1. Swipe the **Master Add Card** over the RFID reader to enter programming mode.
2. **To add a fingerprint:** Place the user's finger on the fingerprint scanner. The system will prompt for multiple scans (typically 3 times) to ensure accurate registration. Wait for confirmation.

3. **To add an RFID card:** Place the user's RFID card on the RFID reader. Wait for confirmation.
4. To exit programming mode, swipe the **Master Add Card** again or wait for the system to time out.

### 5.3 Deleting Users

1. Swipe the **Master Delete Card** over the RFID reader to enter programming mode.
2. **To delete a specific fingerprint:** Place the registered finger on the scanner. The system will confirm deletion.
3. **To delete a specific RFID card:** Place the registered RFID card on the reader. The system will confirm deletion.
4. **To delete all users:** Consult the detailed programming guide for a factory reset procedure, which typically involves a specific sequence using the remote control or master cards.
5. To exit programming mode, swipe the **Master Delete Card** again or wait for the system to time out.

### 5.4 Accessing the System

- **Using Fingerprint:** Place a registered finger firmly on the fingerprint scanner. If recognized, the lock will disengage for a set period.
- **Using RFID Card:** Present a registered RFID card to the RFID reader. If recognized, the lock will disengage for a set period.

## 6. MAINTENANCE

- **Cleaning:** Regularly wipe the fingerprint scanner and the unit's surface with a soft, dry, lint-free cloth. Do not use abrasive cleaners, solvents, or excessive moisture.
- **Inspection:** Periodically check all wiring connections for signs of wear or damage. Ensure the unit is securely mounted.
- **Software Updates:** Check the manufacturer's website for any available firmware updates.

## 7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Fingerprint not recognized.	Dirty sensor, improperly enrolled fingerprint, dry/wet finger.	Clean the sensor. Re-enroll the fingerprint ensuring proper placement. Ensure finger is clean and dry.
RFID card not working.	Card not enrolled, damaged card, incorrect card type.	Ensure the card is properly enrolled. Try another registered card. Verify card compatibility.
System has no power.	Power supply disconnected, faulty wiring, power outage.	Check power connections and supply. Verify wiring integrity. Check circuit breaker.
Lock does not disengage.	Incorrect wiring to lock, faulty lock, insufficient power to lock.	Verify lock wiring. Test the lock independently. Ensure power supply meets lock requirements.
Remote control not responding.	Battery low/dead, out of range, interference.	Replace remote control battery. Move closer to the unit. Reduce potential interference sources.

If the problem persists after attempting these solutions, please contact Sygonix customer support or a qualified technician.

## 8. SPECIFICATIONS

Attribute	Value
Manufacturer	Sygonix
Part Number	SY-3776414
Product Dimensions	50 x 50 x 28 cm
Item Model Number	SY-3776414
Colour	Multicolor
Power Source	12 V/DC (Hand-operated refers to manual interaction, not power source type)
Item Package Quantity	1
Special Features	Waterproof and vandal-proof
Batteries Included?	No (for main unit)
Item Weight	530 g
IP Rating	IP66

## 9. WARRANTY AND SUPPORT

This instruction manual does not contain specific warranty information. For details regarding warranty coverage, technical support, or service, please refer to the official Sygonix website or contact their customer service directly. Keep your proof of purchase for any warranty claims.

**Sygonix Contact Information:** Please visit [www.sygonix.com](http://www.sygonix.com) for the most up-to-date contact details and support resources.