

# Iei Keypad Programming Manual

## IEI 232iLM Keypad Installation and Programming Instructions

Note: This product is designed to be installed and serviced by security and lock industry professionals.

### Specifications

#### Case Dimensions:

6 1/2" L x 1 1/4" W x 1 1/4" D

#### Electrical:

Voltage: 5-12VDC (reader)  
12-24VAC/DC (controller)

Current (max): 120mA

#### Relay Contacts:

Main Relay (controller): 2A

Aux Relays (controller): 1A

#### Bell Relay:

Form A: 1 Amp @ 30VDC;  
500mA @ 125VAC

#### Environmental:

-20 ° F to 130° F



### Features

- Vandal Resistant Case
- Sealed for Indoor or Outdoor Applications
- LED's for Relay Status Indication
- Bell Output
- Surface Mount
- Illuminated Hardened Keys
- Rated for Greater than One Million Key Cycles

### Applications

- Low to Medium/Heavy Traffic Areas
- Rough Service Environments
- Mullion Frame Mounting
- Dimly Lit Areas

### Description:

The 232iLM Access Control unit consists of two pieces: an SSWiLM keypad front end and a 232 Access Control Module. IEI's Door-Gard Series SSWiLM keypad combines elegant looks with a mullion mount design in a rugged, vandal resistant case, which you can use for almost any application. The SSWiLM has hardened backlit keys designed to perform in medium to high traffic areas and in rough duty environments. The electronics are also conformal coated, which makes the keypad suitable for indoor or outdoor applications.

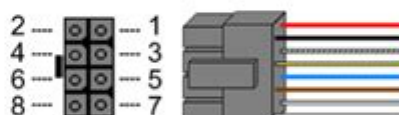
### Basic Operation:

To gain access through the door enter your code (1-6 digits) followed by the \* key on the keypad.

### Packing List:

- (1) SSWiLM Keypad
- (1) IEI 232 Controller
- (1) Eight-Conductor Wire Harness
- (4) Three-Conductor Wire Harness
- (1) Controller Hardware Pack
- (1) Mullion Hardware Pack
- (1) 7/64" Allen Wrench
- (1) Anti-Oxidant Grease Pack
- (1) Installation/Programming Manual
- (1) Self-Contained Access Control Programming Guide

### Wire Harness Configuration:



Pin	Wire Color	Signal Name
1	Red	Power (+)
2	Black	Power (-)
3	White/Black	Data 0
4	White/Yellow	Data 1
5	Blue	Not Used
6	Brown	Not Used
7	White	Bell Relay Contact (A)
8	White	Bell Relay Contact (B)

### Wiring Requirements:

18 AWG – 1000 Ft.  
20 AWG – 500 Ft.  
22 AWG – 250 Ft.

iei keypad programming manual is an essential resource for anyone looking to effectively utilize and manage their IEI keypad systems. These keypads are integral to access control systems, providing security and convenience in both residential and commercial settings. This article will delve into the fundamentals of programming IEI keypads, including installation, programming steps, troubleshooting, and best practices for maximizing security.

## Understanding IEI Keypads

IEI (Integrated Electronics Industries) manufactures a variety of keypads that are used in access control systems. These devices range from simple numeric keypads to more advanced systems equipped with various security features.

# Types of IEI Keypads

1. Numeric Keypads: Basic models that require a user to enter a numeric code to gain access.
2. Proximity Keypads: These allow users to gain access using RFID cards or fobs.
3. Biometric Keypads: Advanced systems that utilize fingerprint recognition for enhanced security.
4. Smart Keypads: Integrated with smart technology to allow remote access and monitoring through smartphone applications.

## Key Features

- User Capacity: Supports multiple users, making it suitable for various environments.
- Programmable Codes: Allows customization of entry codes for different users.
- Tamper Alerts: Notifies the system owner of unauthorized access attempts.
- Weather Resistance: Many models are designed for outdoor use.

## Installation of IEI Keypads

Proper installation is crucial to ensure that the keypad operates correctly and securely. Below are the steps involved in the installation process.

## Tools Required

- Screwdriver
- Drill
- Wire Stripper
- Multimeter
- Level

## Installation Steps

1. Choose a Location: Select a location that is easily accessible but not exposed to harsh environmental conditions.
2. Mount the Keypad:
  - Use a level to ensure the keypad is straight.
  - Mark the screw holes, drill, and secure the keypad with screws.
3. Wiring:
  - Run the necessary wires from the keypad to the control panel.
  - Strip the ends of the wires to prepare for connection.
4. Connect to the Control Panel:
  - Match the wires from the keypad to the corresponding terminals on the control panel.

- Secure the connections tightly.

5. Power Up: Turn on the power supply to the control panel and check if the keypad lights up.

## **Programming the IEI Keypad**

Programming your IEI keypad is essential to customize access for users and to enhance security measures. Below are detailed steps on how to program your keypad.

### **Initial Setup**

Before programming, it's important to perform an initial setup:

1. Access the Programming Mode:
  - Enter the factory default code (often provided in the manual).
  - Follow the prompts to enter programming mode.
2. Set the Date and Time: If applicable, set the date and time to ensure logs are accurate.

### **Creating User Codes**

Creating and managing user codes provides a way to control who has access to your premises.

1. Enter Programming Mode: As mentioned above.
2. Select User Code Option: Navigate to the user code programming section.
3. Add User Codes:
  - Input a unique code (typically 4-6 digits).
  - Assign the code to a specific user.
  - Save the changes.
4. Test the Code: Exit programming mode and test the new code to ensure it works.

### **Managing User Codes**

- Deleting User Codes:
  - Access the user code management menu.
  - Select the code to delete and confirm the action.
- Changing User Codes:
  - Follow the same steps as adding a new user code, but enter the existing code first.

# Advanced Programming Features

IEI keypads often come with advanced programming features that enhance security and usability.

## Setting Time Zones

1. Access the programming menu.
2. Select the time zone setting and adjust according to your location.
3. Save and exit.

## Configuring Access Schedules

1. Navigate to the access schedules section in programming mode.
2. Define the days and times when specific codes will be valid.
3. Save the schedule and test to ensure it functions as intended.

## Integrating with Other Security Systems

IEI keypads can often be integrated with other security systems such as alarms and surveillance cameras.

1. Follow the manufacturer's guidelines for integration.
2. Ensure compatibility with existing systems before proceeding.

## Troubleshooting Common Issues

Despite careful installation and programming, issues can arise. Here are some common problems and their solutions.

### Keypad Not Responding

- Check Power Supply: Ensure the keypad is receiving power.
- Inspect Connections: Verify that all wires are securely connected.

### Incorrect Code Entry

- Check Code: Ensure the code entered is correct.

- Consult User Manual: Refer to the manual for default codes or reset instructions.

## **Inconsistent Functionality**

- Environmental Factors: Ensure that the keypad is not exposed to extreme temperatures or moisture.
- Firmware Updates: Check if the firmware needs updating.

## **Best Practices for Keypad Security**

To ensure maximum security of your access control system, follow these best practices:

1. Regularly Change User Codes: Change codes periodically to enhance security.
2. Limit Access Codes: Only provide codes to trusted individuals.
3. Monitor Access Logs: Regularly review who accessed the premises and when.
4. Use Strong Codes: Avoid simple codes such as '1234' or '0000'.
5. Educate Users: Ensure everyone with access understands the importance of security and proper usage.

## **Conclusion**

The IEI keypad programming manual is a valuable tool for anyone managing an access control system. Understanding how to properly install, program, and troubleshoot these keypads can enhance security and provide peace of mind whether in a residential or commercial environment. By following the guidelines outlined in this article, you can ensure that your IEI keypad functions optimally, providing secure access to your premises. Regular maintenance, updates, and user training are essential for maintaining the integrity of your security system.

## **Frequently Asked Questions**

### **What is the purpose of the IEI keypad programming manual?**

The IEI keypad programming manual provides instructions for configuring and programming IEI keypads, including setting codes, user management, and connecting to security systems.

### **Where can I find the latest IEI keypad programming**

## **manual?**

The latest IEI keypad programming manual can typically be found on the manufacturer's official website or by contacting their customer support.

## **What are the basic steps to program an IEI keypad?**

Basic steps include entering programming mode, setting up user codes, configuring access levels, and saving the settings.

## **Does the IEI keypad programming manual include troubleshooting tips?**

Yes, the manual usually includes troubleshooting tips for common issues that users may encounter during setup or operation.

## **What types of keypads are covered in the IEI programming manual?**

The manual covers various models of IEI keypads, including standalone models and those integrated with security systems.

## **Is a user code required to access programming mode on the IEI keypad?**

Yes, a specific user code is typically required to enter programming mode and make changes to the keypad settings.

## **Can I reset my IEI keypad to factory settings using the programming manual?**

Yes, the manual provides instructions on how to reset the keypad to factory settings if needed.

## **Are there any safety precautions mentioned in the IEI keypad programming manual?**

Yes, the manual often includes safety precautions to prevent accidental lockouts or unauthorized access during programming.

## **What should I do if my IEI keypad is not responding during programming?**

Refer to the troubleshooting section in the manual for steps to diagnose the issue, such as checking power connections or ensuring the correct programming code is used.

## **Can I integrate IEI keypads with other security systems**

## as per the programming manual?

Yes, the programming manual usually provides guidelines on how to integrate IEI keypads with various security systems for enhanced functionality.

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