SECURITY BRANDS 27-210 EDGE E1 Smart Keypad with Intercom Access Control System User Guide

QUICK START GUIDE
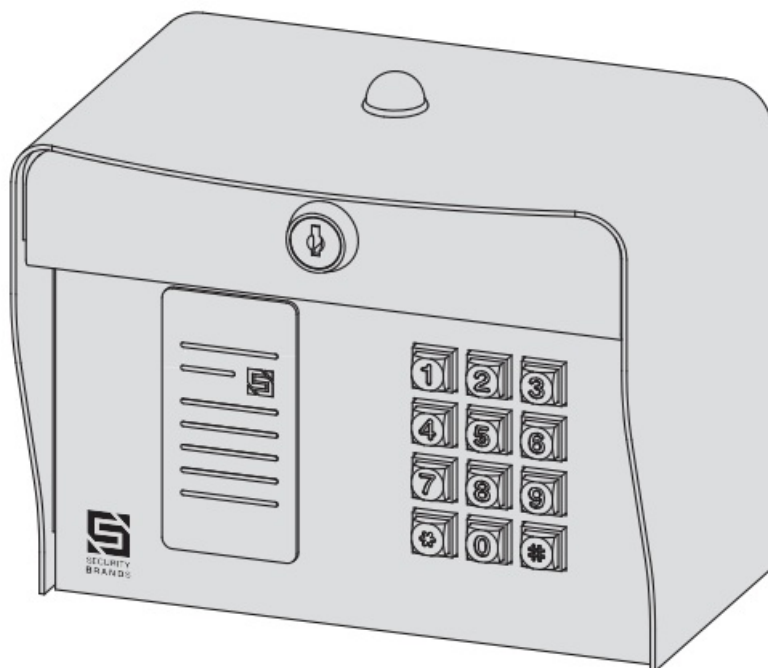
Model 27-210, 27-21

1. Unpack the box and make sure you have all items shown here. (Screwdriver not shown.)

12-V AC/DC Adapter
(PS-12DC1)

Key
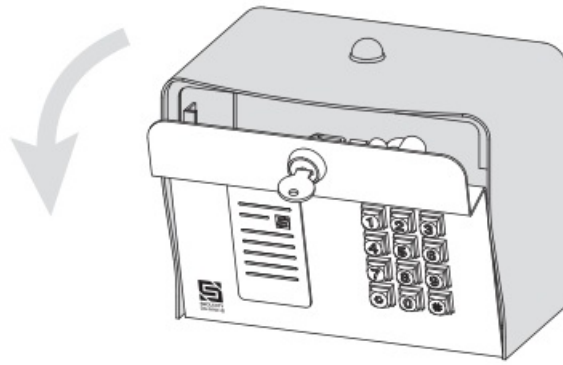
Edge Unit
(27-210 shown)
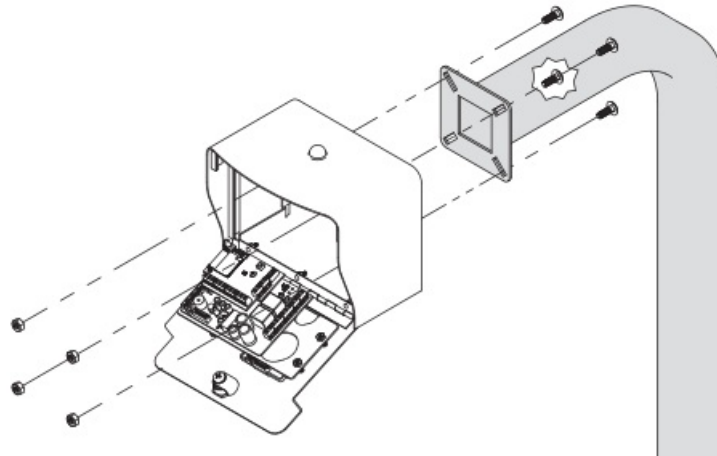
Carriage Bolt
(4x)

Hex Nut
(4x)

2. Unlock and open the front panel of the unit for mounting, wiring, and setup.

3. Mount unit to pedestal using included mounting hardware.

   (This step may be completed later.)

⚠️ **WARNING** ⚠️

AUTOMATIC GATES CAN CAUSE SERIOUS INJURY OR DEATH!

ALWAYS CHECK THAT THE GATE PATH IS CLEAR BEFORE OPERATIN

REVERSING OR OTHER SAFETY DEVICES SHOULD ALWAYS BE USI

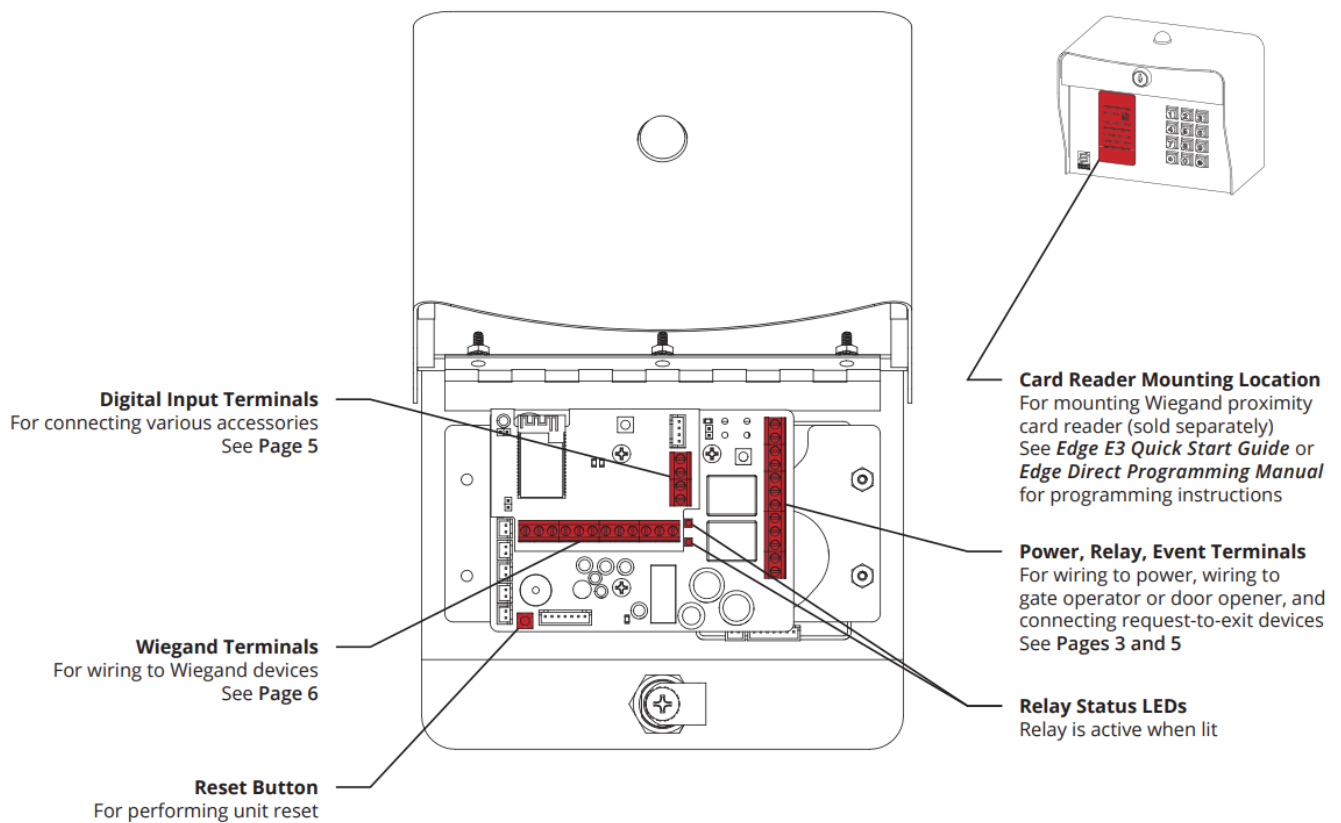⚠️ **CAUTION** ⚠️

Use all four carriage bolts when mounting the unit to a pedestal.
Leave the antenna in place.
Seal all openings created in the enclosure.
Failure to follow these instructions can damage the unit and/or cause it not to fur

What's what?
All important components labeled
Model 27-210 is shown

The unit is shown with the front panel open.
Wiring/cabling not shown for clarity

Digital Input Terminals
For connecting various accessories
See **Page 5**

Wiegand Terminals
For wiring to Wiegand devices
See **Page 6**

Reset Button
For performing unit reset

Card Reader Mounting Location
For mounting Wiegand proximity
card reader (sold separately)
See *Edge E3 Quick Start Guide* or
Edge Direct Programming Manual
for programming instructions

Power, Relay, Event Terminals
For wiring to power, wiring to
gate operator or door opener, and
connecting request-to-exit devices
See **Pages 3 and 5**

Relay Status LEDs
Relay is active when lit

4. **Connect wires.**
Feed wires through the back of the unit, and connect as shown using included screwdriver.
Excessive force can damage the unit!
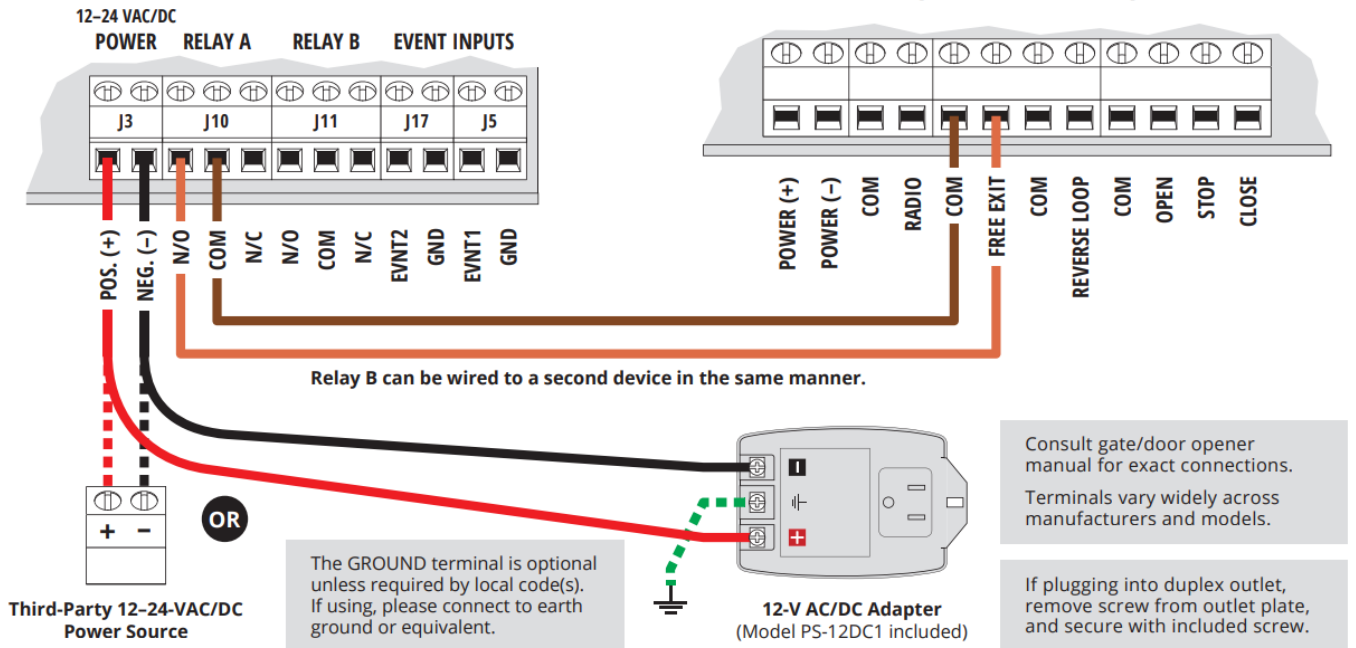
Additional wiring diagrams can be found on Pages 5 and 6.

⚠ **CAUTION** ⚠

If the included 12-V AC/DC adapter will not be used, please go to Page 4 and follow the pro
Do not exceed 24 VAC/DC! Failure to choose a compatible power sou

Edge Power, Relay, Event Terminals

12–24 VAC/DC
POWER   RELAY A   RELAY B   EVENT INPUTS

J3   J10   J11   J17   J5

POS. (+)   NEG. (−)   N/O   COM   N/C   N/O   COM   N/C   EVNT2   GND   EVNT1   GND

Gate Operator / Door Opener

POWER (+)   POWER (−)   COM   RADIO   COM   FREE EXIT   COM   REVERSE LOOP   COM   OPEN   STOP   CLOSE

Relay B can be wired to a second device in the same manner.

OR

+ −

Third-Party 12–24-VAC/DC
Power Source

The GROUND terminal is optional unless required by local code(s). If using, please connect to earth ground or equivalent.

12-V AC/DC Adapter
(Model PS-12DC1 included)

Consult gate/door opener manual for exact connections.

Terminals vary widely across manufacturers and models.

If plugging into duplex outlet, remove screw from outlet plate, and secure with included screw.

Using a Third-Party Power Source (Optional)

IMPORTANT
If you would like to use a third-party
power source such as solar, verify that it
conforms to the following specs:
Input
12–24 VAC/DC **no more than 10% beyond this range Current Draw**
less than 111 mA @ 12 VDC
less than 60 mA @ 24 VDC

4a Connect wires to the unit as shown in Step 4.
4b Connect wires to your power source, making sure you connect positive to positive and negative to negative.

⚠ **CAUTION** ⚠

Double-check that you have wired from positive on the Edge unit to positive on your power source and nega
Reverse polarity can damage the unit!

5. The close front panel of the unit and lock it.

⛔**STOP**⛔

Before going forward, double-check all wiring and make sure the
Wiring diagrams for connecting to accessory devices can be found on
For connecting accessories not mentioned, please contact Technic
Make sure the gate or door path is clear before completing S

6. Add Access Code to Relay A.
(To add multiple codes, enter each of them before pressing the pound key.)

| 1 | 2 | 5 | 1 | → | 1 | → | ? | ? | ? | ? | → | # |

Master Code
(can be changed)

Sub Mode

Access Code to Be Added
(4 digits by default; numbers only)

NOTE: The green arrow indicates a "good" tone on the Edge unit. By default, the following codes are reserved and cannot be used: 1251, 1273, 1366, 1381, 1387, 1678, 1752, and 1985.

7. Make sure the gate or door path is clear; then enter the access code on the keypad, and the confirm gate or door opens.
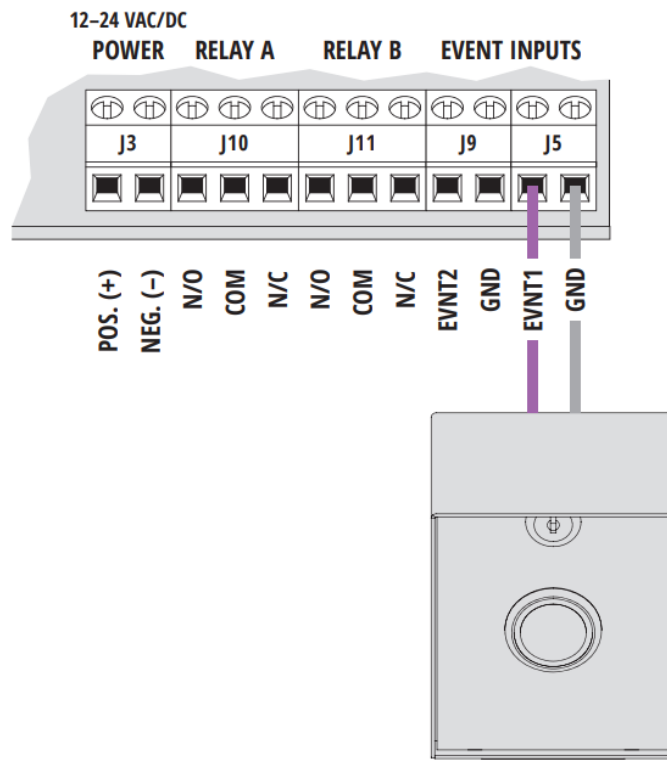

✔ **INSTALLATION COMPLETE!**

Jump to **Page 7** to continue programming and download the Edge Smart Keypad app.

A **Event Inputs**
Wiring for accessories such as a request-to-exit device

Edge Power, Relay, Event Terminals

12–24 VAC/DC
POWER   **RELAY A**   **RELAY B**   **EVENT INPUTS**

J3   J10   J11   J9   J5

POS. (+) | NEG. (−) | N/O | COM | N/C | N/O | COM | N/C | EVNT2 | GND | EVNT1 | GND

Event Input configuration instructions can be found on **Pages 10 and 11**.

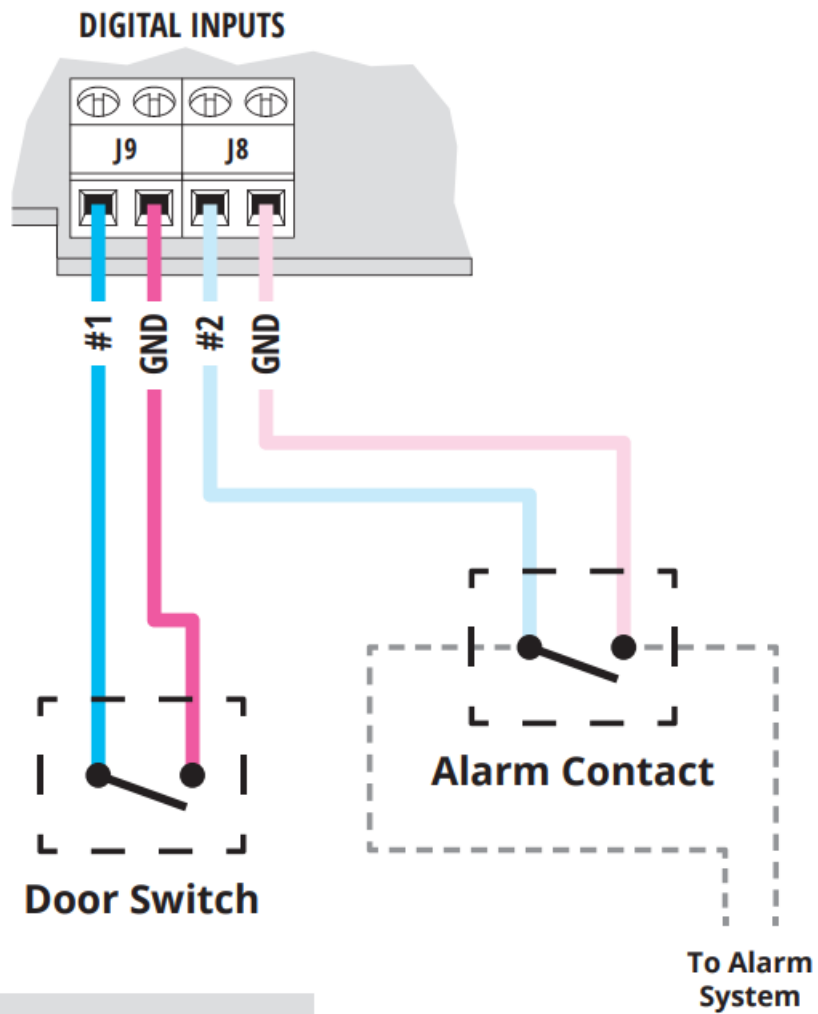**Request-to-Exit Device**
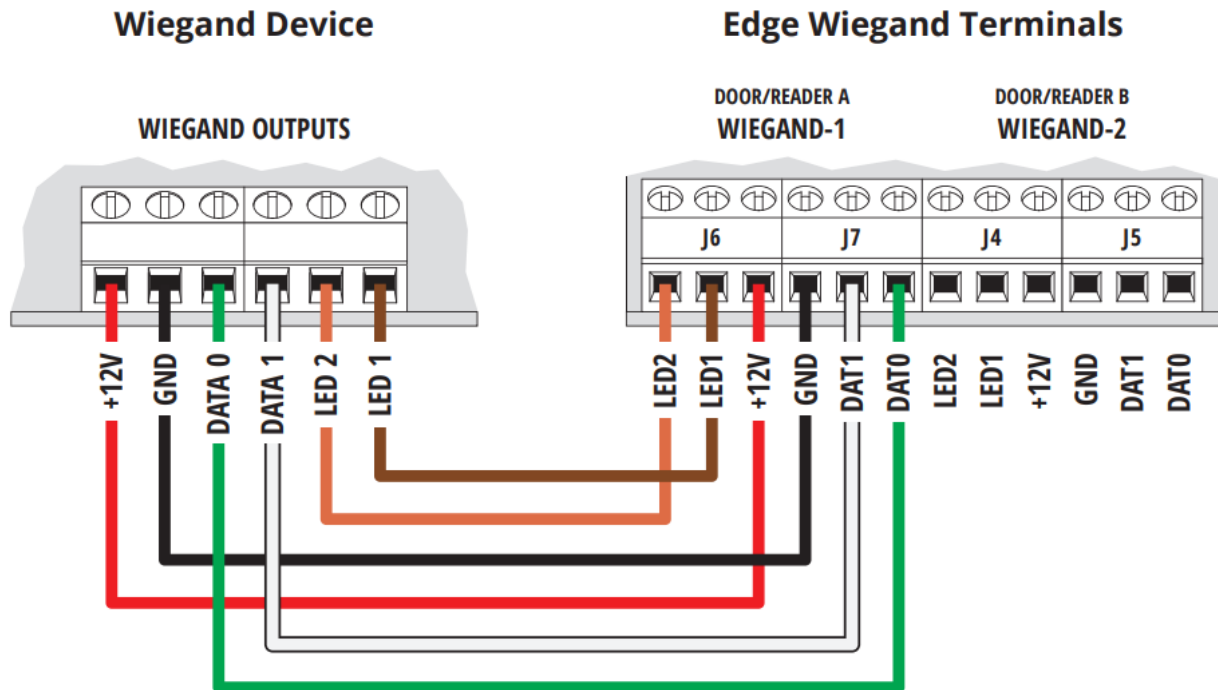(**58-RTE-P** is shown)

B **Digital Inputs**
Wiring to various accessories

Edge Digital Input Terminals

DIGITAL INPUTS

Door Switch

Alarm Contact

To Alarm System

Digital Inputs can be configured using the Edge Smart Keypad app.

C **Wiegand Device**
Wiring for a Wiegand device

Wiegand Device

WIEGAND OUTPUTS

Edge Wiegand Terminals

DOOR/READER A
WIEGAND-1

DOOR/READER B
WIEGAND-2

If mounting a Wiegand card reader to the Edge unit front panel, remove the existing cover plate and hex nuts to reveal the mounting holes and wiring passthrough hole.

⚠ **CAUTION** ⚠

Disconnect power to the Edge unit before connecting Wie
Failure to disconnect power can damage the u

Downloading the Edge Smart Keypad App for iOS/Android

The Edge Smart Keypad app is for **ADMINISTRATOR USE ONLY** and is not intended for users.

a **Grab your smartphone or tablet.** (These steps are optional. The unit can be fully programmed from the keypad.)

b Navigate to your app store, and search for "edge smart keypad."

c Find the Edge Smart Keypad app by Security Brands, Inc. and download it.

Edge Smart Keypad
Security Brands, Inc.

❓ NEED HELP ❓

You can find plenty of useful resources online to help you get your new Edge unit up and
Go to **securitybrandsinc.com/edge/**
If you need further assistance, please call
Technical Support at **(972) 474-6390.**

D Pairing Edge Unit

Connect your mobile device to your Edge unit for use with the app.
The app is available for administrators who want to use it. Nearly all functionality is available through direct programming via the keypad.

IMPORTANT! Make sure your Edge unit is powered on and that Bluetooth is enabled on your mobile device or pairing will not work.

Step 1 – Grab your mobile device and open the Edge Smart Keypad app.
If you do not have the app, follow the steps on this page for downloading it.

Step 2 – Fill out your account information and tap the "Sign Up" button.
If you have already created an account, you will log in instead.

Step 3 – On the Paired Keypads screen, tap the "Add Keypad" button.

Step 4 – On the Add Keypad screen, tap the Edge unit you want to pair.
If you do not see any Edge units listed, make sure your Edge unit is powered on and is in Bluetooth range.

Step 5 – Complete the procedure shown on your mobile device. These steps will be completed using the PIN pad on your Edge unit. **Step 6 – Enter the Master Code (default is 1251) on your mobile device.**

Step 7 – Enter the code shown on your mobile device at the Edge unit. This step must be completed within the time duration displayed.

Step 8 – Change your Master Code if you like.
This step is recommended, but optional, and can be done at a later time.

Your new Edge unit is now be paired and will appear on the Paired Keypads screen. Tapping on the Edge unit on this screen will give you access to relay control and full access control management of the Edge unit from within the app.

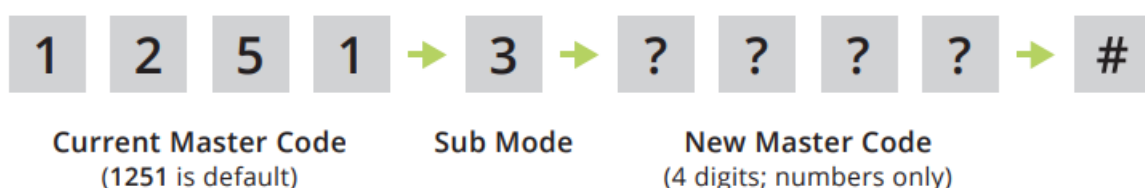For more information and guidance, please go to **securitybrandsinc.com/edge/** or call Technical Support at **(972) 474-6390** for assistance.

E1 Direct Programming / Unit Configuration

Change Master Code
(Highly recommended for security purposes)
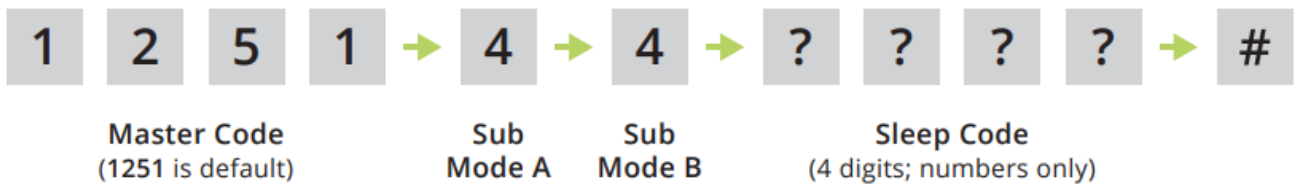
| 1 | 2 | 5 | 1 | → | 3 | → | ? | ? | ? | ? | → | # |

Current Master Code
(1251 is default)

Sub Mode

New Master Code
(4 digits; numbers only)

Change Sleep Code

| 1 | 2 | 5 | 1 | → | 4 | → | 4 | → | ? | ? | ? | ? | → | # |

Master Code
(1251 is default)

Sub Mode A

Sub Mode B

Sleep Code
(4 digits; numbers only)

The green arrow indicates a "good" tone on the unit.
Always wait for a good tone before moving on.

By default, these codes are unavailable for use: 1251, 1273, 1366, 1381, 1387, 1678, 1752, 1985.

ⓘ **FIND MORE** ⓘ

For all programming not shown here, as well as reset procedures a
Smart Keypad app user guide, please visit our Edge start p
securitybrandsinc.com/edge/

Programming Sub Modes

1. Add Access Code(s) to Relay A
2. Delete Code (Non-Wiegand)
3. Change Master Code
4. **– 3** Add Latch Code to Relay B

    4 – 4 Change Sleep Code

    4 – 5 Change Code Length (Non-Wiegand)

    4 – 6 Change Relay Trigger Time

    4 – 7 Enable/Disable Timers and Schedules

    4 – 8 Enable/Disable "3 Strikes, You're Out"

    4 – 9 Configure Event Input 1
5. Add Latch Code to Relay A
6. Configure Wiegand Inputs
7. Add Access Code(s) to Relay B
8. Add Limited-Use Code
9. Delete All Codes and Timers

Things to Know

The Star Key (*)
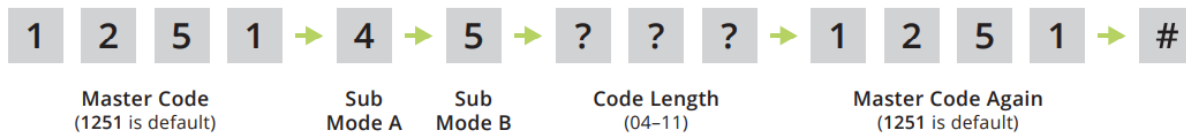If a mistake is made, pressing the star key deletes your entry. Two beeps will sound.

The Pound Key (#)
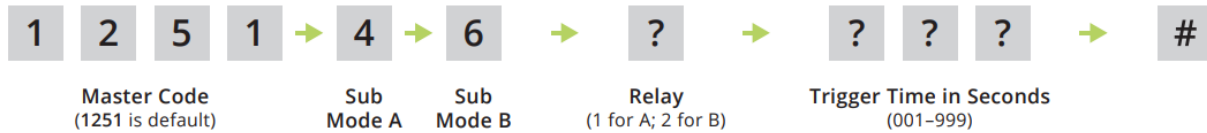The pound key is good for one thing and one thing only: exiting the programming mode.

E2 **Direct Programming** / Unit Configuration

The green arrow indicates a "good" tone on the unit. Always wait for a good tone before moving on.

Change Code Length
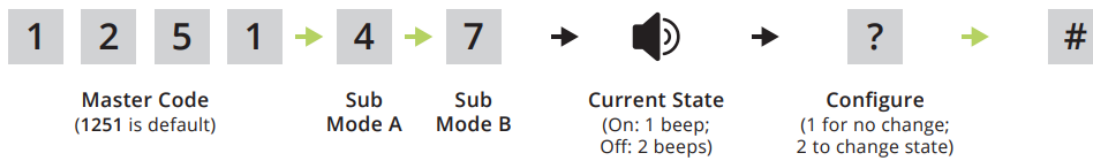❶ IMPORTANT! THIS WILL DELETE ALL NON-WIEGAND ACCESS AND LATCH CODES!

| 1 | 2 | 5 | 1 | → | 4 | → | 5 | → | ? | ? | ? | → | 1 | 2 | 5 | 1 | → | # |

| Master Code (1251 is default) | Sub Mode A | Sub Mode B | Code Length (04–11) | Master Code Again (1251 is default) |

Change Relay Trigger Time

| 1 | 2 | 5 | 1 | → | 4 | → | 6 | → | ? | → | ? | ? | ? | → | # |

| Master Code (1251 is default) | Sub Mode A | Sub Mode B | Relay (1 for A; 2 for B) | Trigger Time in Seconds (001–999) |

Enable/Disable Timers and Schedules

| 1 | 2 | 5 | 1 | → | 4 | → | 7 | → | 🔊 | → | ? | → | # |

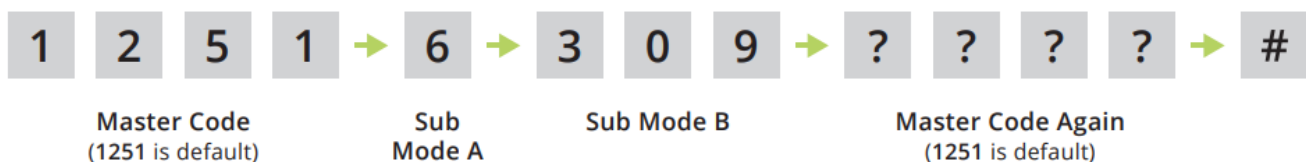| Master Code (1251 is default) | Sub Mode A | Sub Mode B | Current State (On: 1 beep; Off: 2 beeps) | Configure (1 for no change; 2 to change state) |

Enable/Disable "3 Strikes, You're Out"
(When enabled, the unit will sound an alarm and go into a 90-second lockdown for 90 seconds when an incorrect code is entered three times.)

| 1 | 2 | 5 | 1 | → | 4 | → | 8 | → | 🔊 | → | ? | → | # |

| Master Code (1251 is default) | Sub Mode A | Sub Mode B | Current State (On: 1 beep; Off: 2 beeps) | Configure (1 for no change; 2 to change state) |

E3 **Direct Programming** / Unit Configuration

Toggle Silent Mode
(Toggles Silent Mode, which mutes all audible-tone feedback on the unit)

| 1 | 2 | 5 | 1 | → | 6 | → | 3 | 0 | 9 | → | ? | ? | ? | ? | → | # |

| Master Code (1251 is default) | Sub Mode A | Sub Mode B | Master Code Again (1251 is default) |

Configure Event Input 1
(Allows an external device to affect keypad operation or trigger a relay. To configure additional inputs, use the Edge Smart Keypad app.)

Mode 1 – Remote Open Mode
Triggers either Relay A or Relay B when event input state changes from normally open (N/O) to normally closed (N/C).

Mode 2 – Log Mode
Makes log entry of event input state when event input state changes from normally open (N/O) to normally closed (N/C).

Mode 3 – Remote Open and Log Mode
Combines Modes 1 and 2.
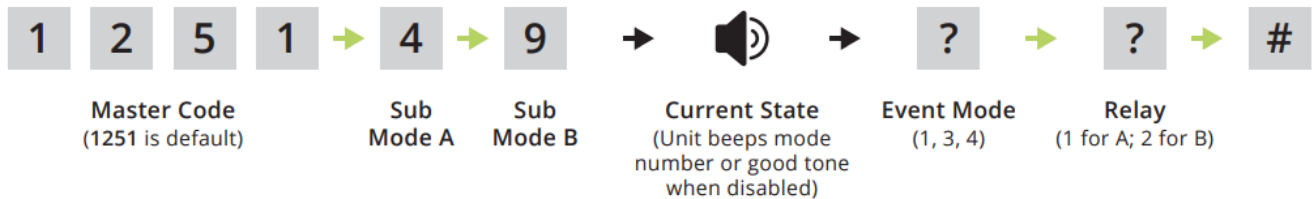
Mode 4 – Arming Circuit Mode
Enables either Relay A or Relay B when event input state changes from normally open (N/O) to normally closed (N/C). Otherwise, the selected relay is disabled.

Mode 5 – Remote Operation Mode
Triggers or latches either Relay A or Relay B when event input state changes from normally closed (N/C) to normally open (N/O).

Mode 0 – Event Input 1 Disabled

Modes 1, 3, and 4

1 2 5 1 → 4 → 9 → 🔊 → ? → ? → #

Master Code (1251 is default) — Sub Mode A — Sub Mode B — Current State (Unit beeps mode number or good tone when disabled) — Event Mode (1, 3, 4) — Relay (1 for A; 2 for B)
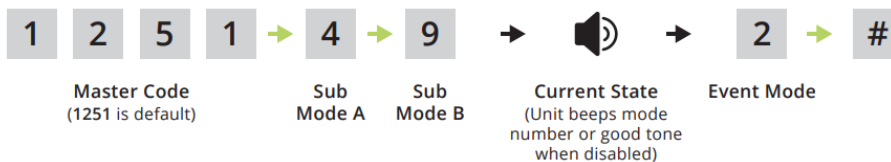
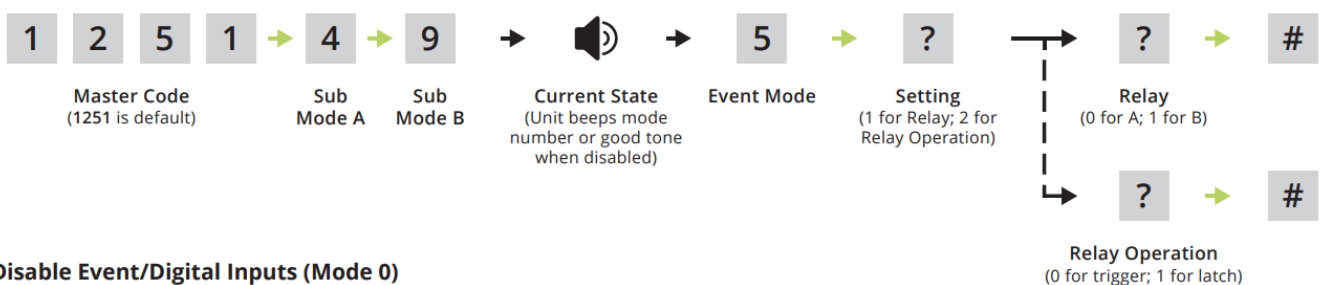E4 **Direct Programming** / Unit Configuration

Configure Event Input 1 (continued)
(Allows an external device to affect keypad operation or trigger a relay. To configure additional inputs, use the Edge Smart Keypad app.)
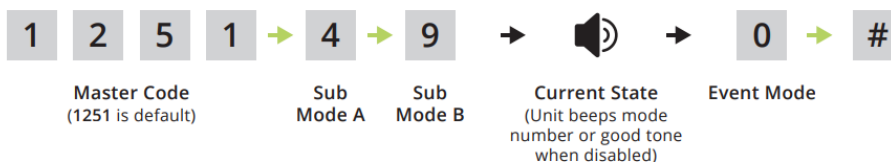
Mode 2

1 2 5 1 → 4 → 9 → 🔊 → 2 → #

Master Code (1251 is default) — Sub Mode A — Sub Mode B — Current State (Unit beeps mode number or good tone when disabled) — Event Mode

Mode 5

1 2 5 1 → 4 → 9 → 🔊 → 5 → ? → ? → #
? → #

Master Code (1251 is default) — Sub Mode A — Sub Mode B — Current State (Unit beeps mode number or good tone when disabled) — Event Mode — Setting (1 for Relay; 2 for Relay Operation) — Relay (0 for A; 1 for B)

Relay Operation (0 for trigger; 1 for latch)

Disable Event/Digital Inputs (Mode 0)

1 2 5 1 → 4 → 9 → 🔊 → 0 → #

Master Code (1251 is default) — Sub Mode A — Sub Mode B — Current State (Unit beeps mode number or good tone when disabled) — Event Mode
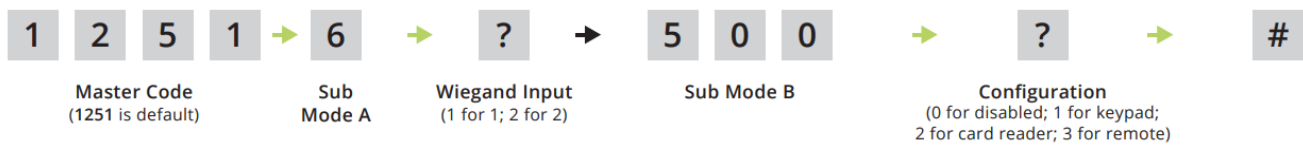
E5 **Direct Programming** / Unit Configuration

Configure Wiegand Input
(Allows enabling or disabling of a Wiegand input and configuration of the Wiegand device type. For the tag reader type, use the Edge Smart Keypad app.)
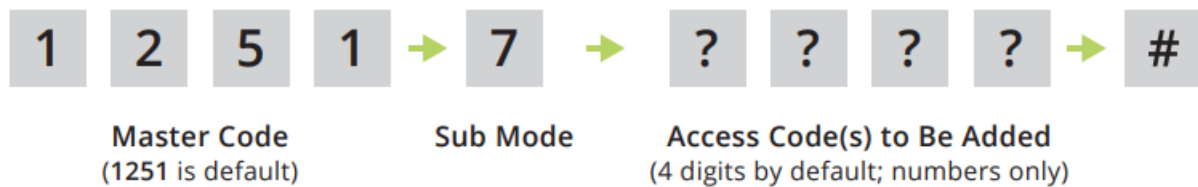
| 1 | 2 | 5 | 1 | → | 6 | → | ? | → | 5 | 0 | 0 | → | | ? | | → | | # |

Master Code
(1251 is default)

Sub Mode A

Wiegand Input
(1 for 1; 2 for 2)

Sub Mode B

Configuration
(0 for disabled; 1 for keypad;
2 for card reader; 3 for remote)

Change Default Facility Code

| 1 | 2 | 5 | 1 | → | 6 | → | 1 | 0 | 6 | → | ? | ? | ? | → | # |

Master Code
(1251 is default)

Sub Mode A

Sub Mode B

Facility Code
(000–255)

F1 **Direct Programming** / Onboard Keypad

Add Access Code(s) to Relay B

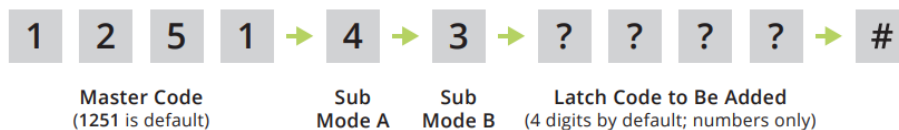(To add multiple codes, enter each of them before pressing the pound key)

| 1 | 2 | 5 | 1 | → | 7 | → | ? | ? | ? | ? | → | # |

Master Code
(1251 is default)

Sub Mode

Access Code(s) to Be Added
(4 digits by default; numbers only)

F2 **Direct Programming** / Onboard Keypad

Add Latch Code to Relay A

| 1 | 2 | 5 | 1 | → | 5 | → | ? | ? | ? | ? | → | # |

Master Code
(1251 is default)

Sub Mode

Latch Code to Be Added
(4 digits by default; numbers only)

Add Latch Code to Relay B

| 1 | 2 | 5 | 1 | → | 4 | → | 3 | → | ? | ? | ? | ? | → | # |

Master Code
(1251 is default)

Sub Mode A

Sub Mode B

Latch Code to Be Added
(4 digits by default; numbers only)

Delete Code (Non-Wiegand)

| 1 | 2 | 5 | 1 | → | 2 | → | ? | ? | ? | ? | → | # |

Master Code
(1251 is default)
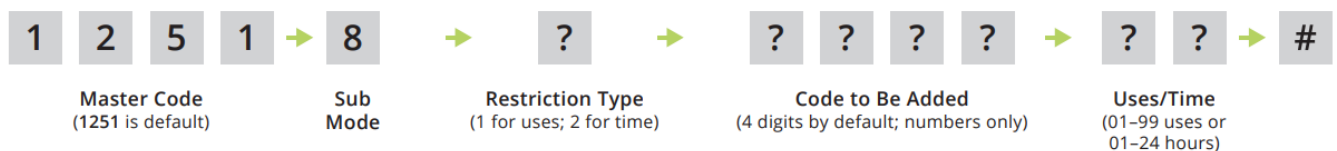
Sub Mode

Code to Be Deleted
(4 digits by default; numbers only)
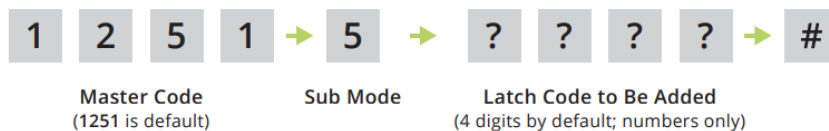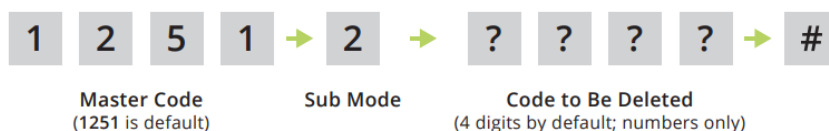
Add Limited-Use Code

(Access codes can be given a use or time restriction. For more advanced time restrictions, use the Edge Smart Keypad app.)

| 1 | 2 | 5 | 1 | → | 8 | → | ? | → | ? | ? | ? | ? | → | ? | ? | → | # |

Master Code
(1251 is default)

Sub Mode

Restriction Type
(1 for uses; 2 for time)

Code to Be Added
(4 digits by default; numbers only)

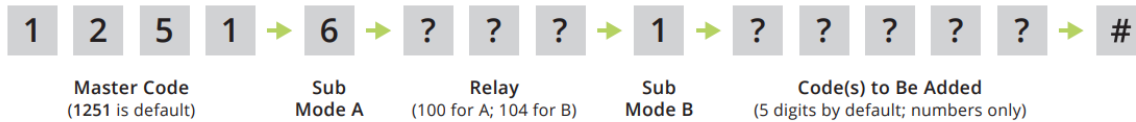**Uses/Time**
(01–99 uses or
01–24 hours)

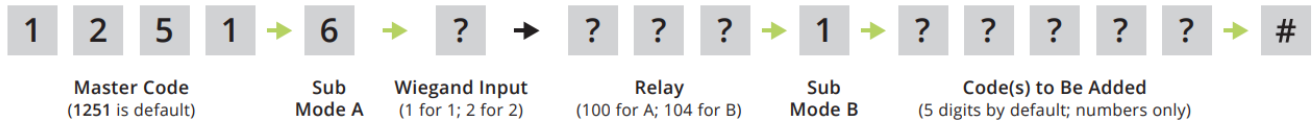**G1** **Direct Programming** / External Wiegand Keypad

Add Wiegand Keypad Access Code(s)
(Uses default facility code; to add multiple codes, enter each of them before pressing pound key)

On Both Wiegand Inputs

| 1 2 5 1 | → | 6 | → | ? ? ? | → | 1 | → | ? ? ? ? ? | → | # |

| Master Code (1251 is default) | Sub Mode A | Relay (100 for A; 104 for B) | Sub Mode B | Code(s) to Be Added (5 digits by default; numbers only) |

On Wiegand Input 1 or 2

| 1 2 5 1 | → | 6 | → | ? | → | ? ? ? | → | 1 | → | ? ? ? ? ? | → | # |

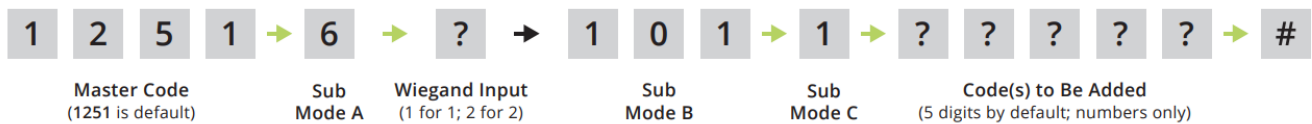| Master Code (1251 is default) | Sub Mode A | Wiegand Input (1 for 1; 2 for 2) | Relay (100 for A; 104 for B) | Sub Mode B | Code(s) to Be Added (5 digits by default; numbers only) |

Add Wiegand Keypad Manager Access Code(s)
(Uses default facility code; to add multiple codes, enter each of them before pressing pound key)

On Both Wiegand Inputs

| 1 2 5 1 | → | 6 | → | 1 0 1 | → | 1 | → | ? ? ? ? ? | → | # |

| Master Code (1251 is default) | Sub Mode A | Sub Mode B | Sub Mode C | Code(s) to Be Added (5 digits by default; numbers only) |

On Wiegand Input 1 or 2

| 1 2 5 1 | → | 6 | → | ? | → | 1 0 1 | → | 1 | → | ? ? ? ? ? | → | # |

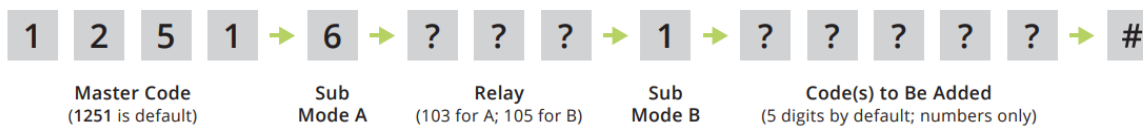| Master Code (1251 is default) | Sub Mode A | Wiegand Input (1 for 1; 2 for 2) | Sub Mode B | Sub Mode C | Code(s) to Be Added (5 digits by default; numbers only) |

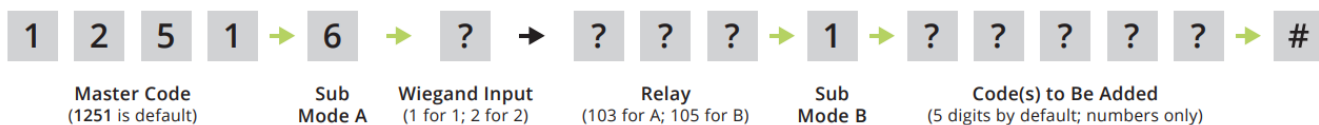**G2** **Direct Programming** / External Wiegand Keypad

Add Wiegand Keypad Latch Code(s)
(Uses default facility code; to add multiple codes, enter each of them before pressing pound key)

On Both Wiegand Inputs

| 1 2 5 1 | → | 6 | → | ? ? ? | → | 1 | → | ? ? ? ? ? | → | # |

| Master Code (1251 is default) | Sub Mode A | Relay (103 for A; 105 for B) | Sub Mode B | Code(s) to Be Added (5 digits by default; numbers only) |

On Wiegand Input 1 or 2

| 1 2 5 1 | → | 6 | → | ? | → | ? ? ? | → | 1 | → | ? ? ? ? ? | → | # |

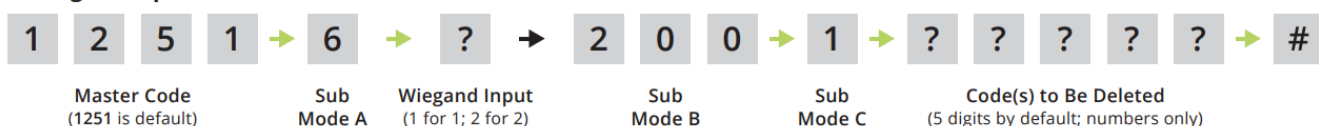| Master Code (1251 is default) | Sub Mode A | Wiegand Input (1 for 1; 2 for 2) | Relay (103 for A; 105 for B) | Sub Mode B | Code(s) to Be Added (5 digits by default; numbers only) |

Delete Wiegand Keypad Code(s)
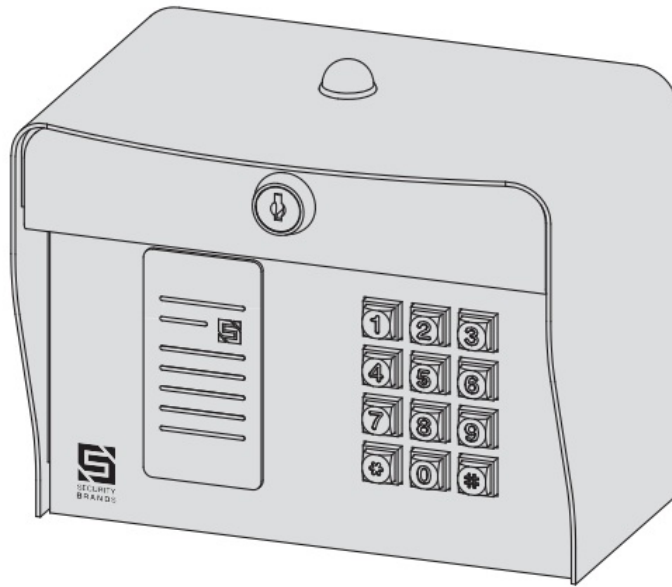(Uses default facility code; to delete multiple codes, enter each of them before pressing pound key)

On Both Wiegand Inputs

| 1 2 5 1 | → | 6 | → | 2 0 0 | → | 1 | → | ? ? ? ? ? | → | # |

| Master Code (1251 is default) | Sub Mode A | Sub Mode B | Sub Mode C | Code(s) to Be Deleted (5 digits by default; numbers only) |

On Wiegand Input 1 or 2

| 1 2 5 1 | → | 6 | → | ? | → | 2 0 0 | → | 1 | → | ? ? ? ? ? | → | # |

| Master Code (1251 is default) | Sub Mode A | Wiegand Input (1 for 1; 2 for 2) | Sub Mode B | Sub Mode C | Code(s) to Be Deleted (5 digits by default; numbers only) |

Contents

NEED HELP

Call (972) 474-6390
Email **techsupport@securitybrandsinc.com**
We are available **Mon–Fri / 8 am–5 pm Central**

Documents / Resources
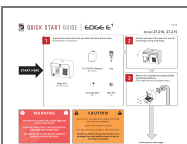
	SECURITY BRANDS 27-210 EDGE E1 Smart Keypad with Intercom Access Control System [pdf] User Guide 27-210, 27-215, EDGE E1 Smart Keypad with Intercom Access Control System

Manuals+,