ENFORCER Outdoor Stand-Alone/Wiegand Keypad with Proximity Reader Resetting to Factory Default and Programming Add/Delete Cards: The keypad must be connected to a Request-to-Exit (RTE) button to be reset to factory default settings. ENFORCER® When resetting to factory default, user information is retained. You may also program new Master Add and Master Delete Card if they are lost. To reset the keypad to factory default settings, follow steps 1~4 below. To also program new Master Add and Master Delete cards, follow steps 1~3 and 5 below. NOTE: Programming new Master Add and Master Delete cards will delete the previous Master Add and SK-2612-SPQ Master Delete cards. Power off the keypad Outdoor Stand-Alone/Wiegand 2. Hold down the egress button and power the keypad on, continuing to hold down the egress button for approximately 10 seconds until you hear 2 beeps and the LED turns orange. Keypad with Proximity Reader Release the egress button. 4. If you only need to reset the keypad to factory default, wait until the LED changes to red (about 30 Manual seconds) indicating that the reset has completed successfully. 5. If you need to program new Master Add and Master Delete Cards, within 30 seconds, read two cards. The first will become the Master Add Card, and the second the Master Delete Card. The LED will change to red indicating that the reset has completed successfully. FCC STATEMENT: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. Warning: Changes or modifications not expressly approved by the party responsible forcompliance could void the user's authority to operate the equipment. NOTE: This equipment has been tested and found to comply with the limits for a Class Bdigital * # device, pursuant to Part 15 of the FCC Rules. These limits are designed to providereasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radiocommunications. However, there is no quarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio ortelevision reception, which can be determined by turning the Features: equipment off and on, the user is encouraged to try to correct the interference by one or more of • 1,000 Users (up to 998 users and 2 duress users) • EEPROM Memory protects programmed the following information in case of power loss . User code length 4~6 digits measures: 9~18 VDC Operation · All features programmed directly on the keypad: Reorient or relocate the receiving an tenna. No need for an external programmer Increase the separation between the equipment and receiver. Low current draw – 105mA max. Connect the equipment into an outlet on a circuit different from that to which the · Egress input lets users exit the premises Form C relay output – 2A@12VDC receiver is connected. without keying in a code Adjustable output time – 0.5~99s, or toggle Consult the dealer or an experienced radio/TV technician for help. · Can serve as Wiegand reader or controller, · Built-in tamper alarm and external alarm output FCC Radiation Exposure Statement: output and input - 26~37 bits Backlit keypad and multicolor status LED This equipment complies with FCC radiation exposure limits set forth for an · 2-Door interlock uncontrolled environment. This equipment should be installed and operated EM 125kHz with minimum distance 20cm between the radiator & your body. Extreme cold tolerance to -40° F (-40° C) Outdoor rated – IP66 · Sturdy black ABS plastic housing · Easy transfer of users to additional devices SECO-LARM® U.S.A., Inc. ■® PICSN8 16842 Millikan Avenue, Irvine, CA 92606 Website: www.seco-larm.com Phone: (949) 261-2999 | (800) 662-0800 Email: sales@seco-larm.com MI_SK-2612-SPQ_191030.docx (€® SECO-LARM® **SL/**® SECO-LARM U.S.A., Inc. **ENFORCER Outdoor Stand-Alone/Wiegand Keypad with Proximity Reader** ENFORCER Outdoor Stand-Alone/Wiegand Keypad with Proximity Reader Quick Installation Guide: Wiegand Controller Mode (Continued): Set Wiegand Input Bits/PIN Input Format: This page is for installers looking to do a basic installation and programming of the keypad. For more Set the Wiegand input bits and format according to the output format of the external reader. To set the in-depth installation and programming instructions, see "Table of Contents" on pg. 4. Wiegand input bits and the Wiegand PIN output format, use the following general formula from within base programming mode (see "Enter and Exit Base Programming Mode," pg. 7): Mounting Diagram: Set Wiegand Input Bits/PIN Input Format function code (a short beep will sound and the LED) will change to steady orange) Choice of 2 pairs of — Wiegand Input Bits/PIN Input Format 12 mounting holes Wiegand Input Bits/PIN Input Format: 34 5 6 2 6 to 3 7 - Set Wiegand input bits (26~37, factory default, 26) Drill at least ø3/8" (ø9mm) wiring hole 78 4, 8, or 10 – Set Wiegand PIN input format (4, 8, or 10, factory default, 4) 90 1 Housing base · Basic programming is the same as in the stand-alone mode. Θ 8 . If the external device is an EM card reader, users can be added/deleted on either device. If the external device is an HID or Mifare reader, users can only be added/deleted on the external reader. The A key returns you to base programming mode (the LED will flash red). Exit programming mode Security screw — → is by pressing the \int key (see "Enter and Exit Base Programming Mode," pg. 7). Wiegand Reader Mode: Quick Wiring Diagram: Wiegand Reader Mode Wiring The keypad can work as a standard Wiegand reader, Keypad connected to an external controller. Be sure to set the Red - 12VDC (+) ♦ +12V keypad operation mode to Wiegand reader mode (see 12 Black ◆ GND Purple - Output (COM) "Setting the Keypad Operation Mode," pg. 8). 12VDC 34 Alarm 5 6 ◆ D0 Power Gray - Tamper Alarm Output (GND) Connect the keypad to the controller as shown in the 7890 White Supply Ø D1 wiring diagram on the right. 12 Black - Ground (-) * # ◆ LED NOTES: Egress 3 4 Yellow - Egress Input (N.O.) Buzzer Button The reader will override most controller settings. 5 6 Brown - Door Sensor Input* The brown wire will control the LED. When its voltage is low, the LED will become green. Door Sensor 78 The yellow wire will control the internal buzzer. When its voltage is low, the buzzer will sound. Blue - Output (N.O.) 90 (+) Electric Set Wiegand Output Bits/Format: Orange - Output (N.C.) Or * # Lock Set the Wiegand output bits/format according to the input format of the controller. To set, use the same Output Relay IN4007 formula as used for setting the Wiegand input bits/format (See, "Set Wiegand Input Bits/Format," above). N.O. Output for Fail-secure Lock N.C. Output for Fail-safe Lock Cathode Troubleshooting: Wiegand Diode IN4007 Ensure the User ID assigned is between 0 and 997 for users and *Connect to ground if unused White - Data 1 Controller (See note below) Unit fails to accept a new user/duress either 998 or 999 for duress codes/cards . Ensure the user code is between 4~6 digits long and not already NOTE: For DC-powered electric strikes, connect the included diode as close as possible and in parallel assigned to another user with the electric strike. This absorbs possible electromagnetic interference to prevent operation Unit fails to respond to a programmed • Ensure the unit is in standby mode by pressing the 🖸 key until the of the strike from damaging the keypad. Do not connect a diode when using electromagnetic LED becomes steady red locks or with AC powered strikes. SECO-LARM U.S.A., Inc. SECO-LARM U.S.A., Inc. 19 ENFORCER Outdoor Stand-Alone/Wiegand Keypad with Proximity Reader ENFORCER Outdoor Stand-Alone/Wiegand Keypad with Proximity Reader Duplicating Users to Other Keypads: Quick Programming Guide: Programming Tips: User data can be duplicated from one keypad to Fig. 1 12VDC other keypads (up to 10 at one time) that supports Master programming code (6 digits) should be programmed before any other programming. Power Supply this function. All user data will be transferred to the Red (+) A steady red LED indicates that keypad is powered on and ready. The LED will change to orange 12 12 second unit (taking about 3 minutes for 1,000 34 and a single beep will sound to indicate the device has entered programming mode. 34 Black users), overwriting any existing user data. 56 56 Programming Instructions: 78 78 Green (D0) Connect the keypads in parallel as shown in Fig. 1, 90 90 Follow the instructions below if the following covers your needs: all wires to the same corresponding color. White (D1) * # * # A new master programming code. Make sure that both keypads have the same To additional Setting one user code. master programming code. To transfer user data, Setting one user card use the following general formula from within base programming mode on the main keypad containing A door-unlocked time of 4 seconds after the output is activated. the user data (see "Enter and Exit Base Programming Mode," pg. 7): Access mode / security level set to "card or code" (default) I – Initiate User Data Transfer function code (LED will change to steady orange) NOTE: It's important to choose and fully understand the security level before adding users. For other NOTES: security levels besides the default, read their setup instructions carefully before proceeding. All keypads must support the data transfer function and have the same master programming code. 1. Enter base programming mode: Any user data existing on the additional devices will be overwritten. 123456 When transfer is complete, a short beep will sound, the LED will flash green once and change to red. NOTE: 123456 is the factory default master programming code. A new master Exit programming mode by pressing the key after transfer is complete. programming code (6 digits) should be set the first time you enter programming mode. 2. Set the master programming code (6 digits):

Wiegand Controller Mode: The keypad can work as a controller connected to an external Wiegand reader. Wiegand Controller Mode Wiring Diagram: Red - 12VDC (+) (+) Purple - Output (COM) 12VDC Alarm

Egress

Button

Electric

Lock

Diode IN4007'

Duplicating Users to Other Keypads:

Resetting to Factory Default and Programming

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Accessories Available from SECO-LARM:

Wiegand Controller Mode:

Wiegand Reader Mode: ..

Add/Delete Cards:

Important Notes/Warnings.

9~18 VDC

40mA@12VDC

Troubleshooting:

Warranty:

Door Sensor

Cathode -

Gray - Tamper Alarm Output (GND)

Black - Ground (-)

Blue - Output (N.O.)

Output Relay

Yellow - Egress Input (N.O.)

Brown - Door Sensor Input

Orange - Output (N.C.) Or

N.O. Output for Fail-secure Lock N.C. Output for Fail-safe Lock

12

34

5 6

78

90

* #

Important Notes:

Getting Ready to Program:..

Specifications:

Operating voltage

Programming Format and Default Values:

Setting the Keypad Operation Mode:

Programming User Proximity Cards:.

115/16"

(49mm)

6 0 #

6 1 #

6 2 #

16

Wiring Chart:

Function

Getting Ready to Program:

There are four types of cards:

Keypad code types:

Security Levels:

· Card only

· Card+code

Card or code (default)

· Multiple cards/user codes

"In this manual "card" refers to either proximity cards or fobs.

Programming the Output Mode and Time:

change to steady orange)

NOTES:

A – Output Mode and Output Time

stops when a user code is entered again.

turning off (1=500ms, default: 5 seconds).

Programming the Master Programming Code:

2. Enter the new master programming code (6 digits):

Setting the Keypad Operation Mode:

Set the operating mode

Output Mode and Output Time:

There are three types of keypad user codes:

Color

Red

White

Card types:

Enable the wrong-code lockout to deny access for 10 minutes:

(24mm)

Programming the Master Programming Code:

Programming the Access Mode / Security Level: ..

Standby

Installation:

Wiring Chart:.

20

2

Green - Data 0 Ø D0 White - Data 1 ⊗ D1 NOTE: For DC-powered electric strikes, connect the included diode as close as possible and in parallel with the electric strike. This absorbs possible electromagnetic interference to prevent operation of the strike from damaging the reader/keypad. Do not connect a diode when using electromagnetic locks or with AC powered strikes. 18 SECO-LARM U.S.A., Inc. ENFORCER Outdoor Stand-Alone/Wiegand Keypad with Proximity Reader Table of Contents: Quick Installation Guide: Programming User Codes:... Mounting Diagram: Changing the User Code for an Existing User: .. Quick Wiring Diagram: Programming Duress Codes or Cards:. Quick Programming Guide:. Deleting Users:. Programming Output Mode and Time:... Table of Contents: Programming Notification Sounds, LED, Backlight:...15 Specifications: Overview: Programming the External Alarm Output: 15~16 Programming the Wrong-Code Lockout/Alarm: 16 LED Indicators and Device Sounds: Setting up a Two-Door Interlock System:.

Current draw 105mA@12VDC (max.) Active Form C 2A@12VDC Outputs Alarm 2.5A@12VDC 26~37 bits, PIN output bits - 4, 8, or 10 Wiegand N.O. Ground Egress input Door sensor input N.C. Ground 26~37 bits, PIN input bits - 4, 8, or 10 Wiegand input EM 125kHz Card type Enclosure material Black ABS plastic Operating temperature -40°~140° F (-40°~60° C) 10~90% non-condensing Operating humidity 115/16"x43/4"x15/16" (49x120x24 mm) Dimensions Weight 5.8-oz (165g) Overview: Parts List: 1x Keypad 1x Security wrench 12 1x Diode 3 4 Mounting screws 56 43/4" Plastic screw anchors 78 (120mm) Master add card* 90 337/16" 1x Master delete card* * # (850mm) Manual 'User proximity cards or key fobs sold separately (see pg. 20)

ENFORCER Outdoor Stand-Alone/Wiegand Keypad with Proximity Reader Programming the Wrong-Code Lockout/Alarm: The device can be programmed to either lockout or sound an internal alarm after 10 successive wrong cards/codes. The lockout continues and the LED flashes red for 10 minutes and cannot be reset before then. The built-in notifications and external alarm sounds for the length of time set in the alarm settings (1~3 minutes, see notes below), or until stopped with a valid master programming code or user code. When programming the wrong code lockout, use the following general formula from within base programming mode (see "Enter and Exit Base Programming Mode," pg. 7): Program Wrong-Code Lockout/Alarm function code (LED will change to steady orange) ■ –Disable or Enable/Configure the Wrong-Code Lockout/Alarm Disable or Enable/Configure Wrong-Code Lockout/Alarm: Disable wrong-code lockout (factory default) Enable wrong-code lockout to deny access for 10 minutes Enable wrong-code alarm to sound the keypad notifications / external alarm NOTES: If wrong-code lockout is enabled, the LED will flash red and all access will be denied for 10 minutes after 10 successive wrong cards/codes. If wrong-code alarm is enabled, the LED will flash red and the built-in notifications (if enabled, see "Programming the Notification Sounds, LED, and Backlight," pg. 15) and external alarm (if enabled, see "Programming the External Alarm Output, pgs. 15~16) will sound and continue for the length of time programmed for the alarm or until a valid master programming code or user code is entered. This setting requires either or both the built-in notifications and external alarm output to be enabled and the alarm timing is set by the external alarm settings. The <a> It key returns you to base programming mode (the LED will flash red). Exit programming mode by pressing the 🖸 key (see "Enter and Exit Base Programming Mode," pg. 7). Disable the wrong-code lockout:

Enable the wrong-code alarm for the set time (disabled with a valid master code or user code/card):

Power (+) Connect to +12VDC power supply Black Ground (-) Connect to Ground N.O. Pushbutton contact to ground. Press button to activate the output Yellow Egress Input Brown Door Sensor Connect to a magnetic contact or door sensor Blue Output N.O. NO/NC/COM, relay output, max. 3A@12VDC Purple Output COM Orange Output N.C. Transistor ground output, max. 2.5A@12VDC. Gray Alarm Output Data 0

See also Quick Wiring Diagram on pg. 2 for a sample application and for the use of the included diode.

The keypad is activated by keypad user codes (4~6 digits) and/or user proximity cards.* All user codes/cards must have a unique User ID (between 0 and 997 for users and 998 or 999 for duress). It is

Master add card: – Used only to quickly add user cards without entering programming mode. This

Master delete card – Used only to quickly delete user cards without entering programming mode.

Duress cards – Up to 2 duress cards (user ID s 998~999) can be assigned. Duress cards are used

User cards – Up to 998 user cards (user IDs 0~997) can be assigned to activate the relay.

Description

Wiegand controller

will assign each user card to the first available user ID in consecutive order.

important to record all User IDs for future management tasks.

under duress to activate the relay while triggering an alarm.

ENFORCER Outdoor Stand-Alone/Wiegand Keypad with Proximity Reader

Master programming code (6 digits) – Used only to enter programming mode and cancel alarms. There can be only one master programming code per keypad. User codes (4~6 digits) - Up to 998 user codes (user IDs 0~997) can be assigned. User codes are used to activate the relay and cancel alarms. Duress codes (4~6 digits) – up to 2 duress codes (user ID s 998~999) can be assigned. Duress codes are used under duress to activate the relay while triggering an alarm.

There are four possible security levels (see "Programming the Access Mode / Security Level," pgs. 8~9

†If the master add/delete cards are lost, see "Resetting to Factory Default and Programing Add/Delete Cards," pg. 20)

ENFORCER Outdoor Stand-Alone/Wiegand Keypad with Proximity Reader Deleting Users (Continued): Examples: Delete User ID #501: 2 501 # 2. Delete user code #6905: 2 6 9 0 5 # Delete a user card #56789012: 2 5 6 7 8 9 0 1 2 # 4. Delete a user card by presenting the card: Read Card Delete all users (if the master programming code is 631732): 2 631732 #

The relay can be programmed to toggle the relay ON/OFF (toggle mode), or to trigger for a programmed

length of time up to 99 seconds before automatically turning OFF. The output can be used for locking or

When programming the output mode and time, use the following general formula from within base

Program Output Mode and Time function code (a short beep will sound and the LED will

O – Start/stop (toggle) mode. In this case, the output starts when a user code is entered, and

1 to 99 - The output triggered by a user code lasts up to 99 seconds before automatically

The let key returns you to base programming mode (the LED will flash red). Exit programming mode

unlocking a door or for a variety of functions that can be controlled with the keypad.

programming mode (see "Enter and Exit Base Programming Mode," pg. 7):

For programming the output timing, 1=500ms. 2~99 represents full seconds.

by pressing the <a> key (see "Enter and Exit Base Programming Mode," pg. 7).

1. Set the output to toggle mode: 3 0 # 2. Set the output to 60 seconds: 3 6 0 # 14 SECO-LARM U.S.A., Inc.

ENFORCER Outdoor Stand-Alone/Wiegand Keypad with Proximity Reader

□ XXXXXX # XXXXXX # (where "X" is the new master programming

The keypad can operate as a standalone keypad, a controller connected to an external Wiegand

reader, or a Wiegand reader. To set the operating mode, use the following general formula from within

Operating Mode function code (a short beep will sound and the LED will change to orange)

The master programming code is used to enter base programming mode and to cancel alarms. The

master programming code does not serve as a user code to activate the keypad output.

Enter base programming mode (see "Enter and Exit Base Programming Mode," pg. 7).

Exit programming mode: Press the key or wait 25 seconds to exit automatically.

base programming mode (see "Enter and Exit Base Programming Mode," pg. 7):

The keypad can be programmed to one of four access modes / security levels:

Card+code – a user must use both a card and user code for access

. Either card or code - a user may use either a card or a user code for access (default)

temporary user code 8888 which then must be changed for each user.

Card only – a user must use a card for access

Programming User Codes (Continued):

changed before use.

8

Operating Mode: 2 – Standalone or controller mode (default) 3 – Wiegand reader mode NOTE: The 🗷 key returns you to base programming mode (the LED will flash red). Exit programming mode by pressing the . key (see "Enter and Exit Base Programming Mode," pg. 7). Programming the Access Mode / Security Level: It is important to program the access mode / security level before adding users as this will affect user setup. In all modes except the "card+code" security level, a user ID may be assigned a card* or a user code, but not both. To give the same person both a card and a code requires two user IDs. Due to the exceptional operation of the "card+code" security level, see the notes for this security level below.

In this security level, the card should be assigned first. The keypad will automatically assign each

entered card a temporary user code 8888. This code will not activate the lock and must be

. If you change to this security level after adding users, all existing card users will be given the

If you change to this security level after adding users, all existing code users have to be

reprogrammed by adding a card, which will assign them the temporary user code 8888.

ENFORCER Outdoor Stand-Alone/Wiegand Keypad with Proximity Reader

The 8888 code for each card must be changed using the steps listed under "Changing the User Code for an Existing User," pg. 12, and not using the regular steps for adding a user code.

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 Additional users may be entered in succession without repeating the function code 1. The let key returns you to base programming mode (the LED will flash red). Exit programming mode by pressing the key (see "Enter and Exit Base Programming Mode," pg. 7). Examples: Program user code 2275 for User ID #0: 1 0 # 2275 # 2. Program a user code 98765 allowing the device to auto-assign to the first available User ID (not recommended unless you have a complete record of already assigned User IDs): 1 98765 0 3. Program two user codes - 67890 for User ID #201, and 654321 for User ID #17: 1 201 # 67890 # wait for beep, then 17 # 654321 #

NOTE: The add user function code <a>I<a>I places you into this programming mode. Press the add user function code only before adding the first user. To continue to add other users in the same

You can change the user code for an existing user without going into programming mode if you know

to something they can more easily remember. This procedure is done outside programming mode.

both the current user code and user ID. Users can also use this method to change their own user codes

session, do not repeat the add user function code 1.

Use the following formula in standby mode to change an existing user code.

CCCC # NNNN # NNNN

New user code (4~6 digits, entered twice, do not use the user code 8888)

Changing the User Code for an Existing User

#

Current user code

In "Code+Card" Security Level:

standby mode to change a user code.

Individually by Reading Cards:

User ID

 Read Card
 CCCC
 NNNN
 NNNN Current user code (temporary default 8888) New user code (4~6 digits, entered twice) Programming Duress Codes and Cards: Duress codes/cards are assigned to user IDs 998 and 999 to trigger an alarm while unlocking the door. Duress codes/cards are programmed in the same manner as regular users, except that you must particularly assign them to user ID 998 or 999. (see "Programming User Proximity Cards," pgs. 9~11 and Programming User Codes," pgs. 11~12): 12

ENFORCER Outdoor Stand-Alone/Wiegand Keypad with Proximity Reader

Read Card # – After a short beep, you may continue to add cards by repeating

Add Users function code (a short beep will sound and the LED will change to steady orange)

A - 0 to 997 - 998 unique User IDs to trigger the device (if A is omitted, the device will

Add Users function code (a short beep will sound and the LED will change to steady orange)

B – 8~10 card number (the device will assign the user code to the first available User ID)

Programming User Proximity Cards (Continued):

these steps, but without repeating the function code 1.

these steps, but without repeating the function code 1.

must start with the lowest number.

With the Master Add Card:

standby mode.

Individually by Card Numbers (If Using Cards with Printed Numbers):

assign the user card to the first available User ID.)

If you have set the security level to "card+code," you must use this method to change the temporary

8888 user code that the device automatically assigns to card users. Use the following formula in

consecutively. 1 A B CCCCCC # - The process will take up to 2 minutes Add Users function code (a short beep will sound and the LED will change to steady orange) A - 0 to 997 - the beginning user ID B –the number of cards/fobs to be added the card number (8~10 digits) for the first card (or read the first card in the sequence) NOTES: Note that in the step above, you may add the first card number, or you can read the first card. The user IDs will be assigned in consecutive order beginning from the beginning user ID.

The card numbers must be in consecutive order with no gaps in the numbering sequence and

The Master Add Card allows you to enter cards quickly without entering programming mode. It takes

you directly into the "add user" function mode without needing to enter the master programming code

and the 1 add user function code. Once in this mode, you made add cards using any of the methods

described above, but omitting the 1. When complete, present the Master Add Card again to return to

Adding Cards in a Large Batch (If Using Cards with Printed Numbers): This method allows the addition of up to 998 cards in a single batch. This is especially useful in the initial setup. This process adds the cards in consecutive order, assigned to available user IDs

NOTES: It is important to record each user ID assigned in order to simplify future user management. A user ID can only have a single card or single code assigned (except by using the method described in "Changing the User Code for an Existing User," on pg. 12 when in the "card+code" security level). If you try to add a card to an existing user ID that already has a user code assigned, the user code will be removed. 10 SECO-LARM U.S.A., Inc.

O XXXXXX # XXXXX # NOTE: XXXXX is the new master programming code and must be entered twice. 3. Set a user card to operate the output (unlock the door):

4 5 8 7 is the new user code for user ID #10 (4~6 digits). Do not assign the user code 8888 to any user ID. To add other users (card or code) do not repeat the initial function code 1. 5. Set the output time (skip this step if the default value of 5 seconds is acceptable): 3 4 # NOTE: 4 sets the output delay time for 4 seconds Exit programming mode: ⊡ One short beep will sound to indicated that the keypad has exited programming mode. SECO-LARM U.S.A., Inc.

ENFORCER Outdoor Stand-Alone/Wiegand Keypad with Proximity Reader

In this application, two keypads are each connected to separate door locks and egress pushbuttons.

12VDC

Power Supply

Door 2

Cathode

Controller White - Data 1

Wiegand

12

3 4

56

78

90

*#

Output Relay

· N.O. Output for

N.C. Output for

Fail-safe Lock

1 15 # Read Card #

1 10 # 4587 #

4. Set a user code to operate the output (unlock the door):

15 dechooses user ID #15 of 998 possible user IDs (0~997).

thooses user ID #10 of 998 possible user IDs (0~997).

Setting up a Two-Door Interlock System with Two Keypads:

While one door is open, the other cannot be opened.

Door 1

Cathode

Wiegand

Controller

programming mode (see "Enter and Exit Base Programming Mode," pg. 9):

Green - Data 0

White - Data 1

Two-Door Interlock Wiring Diagram:

Fail-safe Lock

9 A #

Important Notes:

is completed.

installation.

Installation:

ground wire. Failure to do so may damage the unit.

1. Find a suitable location to mount the keypad. Install at a

5. Run wiring through the wall to the wiring hole in the wall

Carefully push the wires through the hole in the wall.

Ensure the correct orientation as shown in Fig. 1.

6. Thread the keypad wires through the center of the keypad

base and connect all according to "Wiring Chart" on pg. 6.

height convenient to most users.

4. Be sure to store this manual in a safe place for future reference.

AC powered strikes.

Programming the Interlock System:

A – Disable or Enable the Interlock System

To add other users (card or code) do not repeat the initial function code <a>1.

NOTES:

NOTES:

Power

Supply

Wiegand

Reader

⊗ GND

♦ +12V

.18

.19

. 19

.20

.20

.20

.20

18~19

Purple (COM) Purple (COM) 12 Alam 34 Gray (GND) Gray (GND) 56 78 Black (-90 Egress Egress Yellow (N.O.) Yellow (N.O.) * # Door 1 Sensor Door 2 Sensor Blue (N.O.) Blue (N.O.) Output Relay Door 2 Orange (N.C.) electric N.O. Output for Orange (N.C.) Lock Lock Fail-secure Lock · N.C. Output for

Diode IN4007

(see note

NOTE: For DC-powered electric strikes, connect the included diode as close as possible and in parallel with

When programming the interlock system, use the following general formula from within base

Program the Interlock System function code (LED will change to steady orange)

the electric strike. This absorbs possible electromagnetic interference to prevent operation of the

strike from damaging the keypad. Do not connect a diode when using electromagnetic locks or with

Disable or Enable the Interlock: O – Disable the interlock (factory default) Enable the interlock NOTE: The <a> It key returns you to base programming mode (the LED will flash red). Exit programming mode by pressing the \int key (see "Enter and Exit Base Programming Mode," pg. 7). SECO-LARM U.S.A., Inc. 17 ENFORCER Outdoor Stand-Alone/Wiegand Keypad with Proximity Reader LED Indicators and Device Sounds: LED Status Sounds Power on in standby mode Red steady 1 Beep Red flashing In base programming mode Orange steady In function programming mode 1 Beep Exit programming mode 1 Beep Red steady Successful operation 1 Beep Green flash once Unsuccessful operation 3 Beeps Built-in alarm Rapid beeping* Red flashing rapidly De-activate the built-in alarm by entering a valid user code.

IF USING THE KEYPAD WITH A MECHANICALLY OPERATED DOOR OR

GATE, MOUNT THE UNIT AT LEAST 15' (5m) FROM THE DOOR OR GATE

TO PREVENT USERS FROM BEING CRUSHED OR PINNED. FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY OR DEATH.

Always disconnect power before servicing the keypad. Do not apply power until all connection wiring

2. The keypad must be properly grounded. Use a minimum 22AWG wire connected to the common

3. All wiring and programming should be done by a professional installer to reduce the risk of improper

Using the included security wrench, remove the security screw located on the bottom of the keypad (Fig. 1). 3. Carefully remove the keypad from the housing base, 5 6 sliding the keypad slightly upwards. 78 4. Using the housing base as a template, mark the holes 10 needed for the wiring and mounting screws and drill 1 needed holes (choose either of the two pairs of mounting holes). Ensure that the wiring hole is large enough to Drill 2 mounting allow the wiring to be pushed in without crimping.

Install the base using the included mounting screws and mounting screw anchors (if necessary).

9. Finish assembly by reattaching the keypad to the base and securing with the security screw.

Fig. 1

Drill at least ø3/8"

(ø9mm) wiring hole

NOTE: For weatherproof installation, add a

base where it meets the wall.

bead of silicone sealant around the

SECO-LARM U.S.A., Inc.	5
ENFORCER Outdoor Stand-Alone/Wiegand Keypad with Proximi	ity Reader
Programming Built-In Notification Sounds, LED, and Backlight:	
The keypad notification sounds, LED, and backlight may be disabled. Setting the keypad notification sounds affects all sounds from the keypad, including keypad presses, successful card/code notifications, duress alarm, and wrong-code alarm. When programming, use the following g formula from within base programming mode (see "Enter and Exit Base Programming Mode).	e entry eneral
7 A #	
 Program Notification Sounds/LED/Backlight function code (LED will change to stead 	dy orange)

Disabling the notification sounds affects only the internal sounds and not the external alarm output. The duress alarm and wrong-code alarm will trigger both the internal notification beep and the external alarm, depending on their settings. The F key returns you to base programming mode (the LED will flash red). Exit programming mode by pressing the key (see "Enter and Exit Base Programming Mode," pg. 7). Programming the External Alarm Output: The external alarm sounds an external alarm when the tamper, duress, or wrong-code alarm (if enabled, see "Programming the Wrong-Code Lockout/Alarm," pg. 16) is triggered. To program, use the

Program Alarm function code (LED will change to steady orange)

Enable/Disable Notification Sounds/LED/Backlight

Enable/Disable Notification Sounds/LED/Backlight:

Disable notification sounds

4 – Disable LED

5 A #

Function

Code*

6

8

between each parameter

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Master programing code

Output mode/time

Operation mode

Set interlock mode,

Add user/duress cards/codes

Access mode / security level

Wrong-code lockout/alarm

Duplicate to another device

Set Wiegand output/input formats

Set external alarm/time

Sounds, LED, backlight

Delete user/duress cards/codes

5 – Enable LED (default)

Disable keypad backlight

Alarm Disable/Enable and Alarm Time

Alarm Disable/Enable and Alarm Time:

O – Disable alarm (factory default)

Enable notification sounds (default)

 1 to 3 – Enable and set the alarm time, 1~3 minutes (factory default, 1 minute) NOTE: The let key returns you to base programming mode (the LED will flash red). Exit programming mode by pressing the L key (see "Enter and Exit Base Programming Mode," pg. 7). Examples: Disable the external alarm: 5 0 # Enable the external alarm and set it to 2 minutes: 5 2 # SECO-LARM U.S.A., Inc.

15

8

9~13

13~14

14~15

8~9

15~16

16

15

8

19

17

18

following formula in base programming mode (see "Enter and Exit Base Programming Mode," pg. 7):

 Exit base programming mode: Press the
 — key or wait 25 seconds to exit automatically. NOTES: DO NOT DISCONNECT THE KEYPAD FROM POWER WHILE IN PROGRAMMING MODE. Disconnecting the unit while in programming mode may cause a memory error. The LED will flash green once indicating the unit has entered base programming mode and with a successful programming step. If you are unsure which function programming mode you are in, press the <a> key to return to base programming mode and press the function code to proceed. Except for changing the user code for an existing User ID or using the Master add and Master delete cards, for all programming functions the keypad must first be in base programming mode.

ENFORCER Outdoor Stand-Alone/Wiegand Keypad with Proximity Reader Programming Duress Codes and Cards (Continued): IMPORTANT NOTES: A duress user ID can only have a single card or single code assigned (except by using the method. described in "Changing the User Code of an Existing User," on pg. 12 when in the "card+code" security level). If you try to add a code to an existing duress user ID that already has a card assigned, the card will be removed and vice versa. The duress alarm will sound for the number of minutes set for the external alarm (see "Programming the External Alarm Output," pgs. 15~16) and cannot be silenced before that time is up. If a user card or code is used while the duress alarm is sounding, the alarm will continue to sound and not stop after the programmed alarm output time expires. When this happens, the duress code/card must be used again, after which the timing cycle will start again and the alarm will stop only after that time has expired.

In code+card security level, either the duress card or code will trigger the duress alarm.

by pressing the

key (see "Enter and Exit Base Programming Mode," pg. 7). SECO-LARM U.S.A., Inc. 13 ENFORCER Outdoor Stand-Alone/Wiegand Keypad with Proximity Reader Programming the Access Mode / Security Level (Continued): Multiple user codes or cards – multiple (2~9) user codes or cards are required for access. Any combination of user codes or cards in any order up to the set number must be used with no more than 5 seconds between each code or card. No particular user code or card can be repeated. This is used for extremely secure areas requiring authentication by more than one person. In multiple user code/card mode, if the same card user code is repeated or a wrong card/code is used, the device will return to standby without triggering the output. In multiple user code/card mode, the elapsed time between each user code/card must not exceed 5 seconds, otherwise, the device will return to standby. When programming the access mode / security level, use the following general formula from within base programming mode (see "Enter and Exit Base Programming Mode," pg. 7): 4 A(A) #

Programming User Proximity Cards: You should program user cards before programming user codes, especially if you are using the "card+code" security level. IMPORTANT NOTES: The system assigns a temporary user code 8888 to each card under the "card+code" security level. If at a later time, you change the security level to "card+code" each previously entered card will have In "card+code" security level, you must remember to change that code before first use. The 8888 user code does not allow access (see "Changing the User Code for an Existing User, pg. 12). There are multiple ways to program proximity cards. Proximity cards may be assigned to User IDs

When programming user codes, use the following general formula after entering base programming mode (see "Enter and Exit Base Programming Mode," pg. 7): ■ BBBB ■ After a short beep, you may continue to add users by repeating these steps, but without repeating the function code 1. Add Users function code (a short beep will sound and the LED will change to steady orange) A - 0 to 997 - 997 unique User IDs to trigger the device (if A is omitted, the device will

11

assign the user code to the first available User ID) B – User code – 4~6 digits (do not use the user code 8888) With the Master Add Card: The Master Add Card allows you to enter codes quickly without entering programming mode. It takes

Exit function programming mode: Press the key. Programming Format and Default Values: In this manual, the format used for programming the keypad is as follows: A single-digit (X) FUNCTION CODE to tell the keypad what is being programmed. A varying number of digits (X) to represent the parameters of that FUNCTION. The key to confirm programming of the FUNCTION and exit to base programming mode. The key to exit programming mode and return to standby mode. The following is a list of the different programming functions: **Parameters** Default Functions and Values Pg. #

Default 123456, code length 6 digits

Output/input bits - 26, PIN output/input bits - 4

Duplicate - no default, must be programmed

No default, must be programmed

No default, must be programmed

Momentary 5 seconds

Stand-alone mode

Interlock default - OFF

Card or code

1 minute Lockout disabled

All ON

*Press the function code only to enter the programming mode for that function. It should not be repeated

ENFORCER Outdoor Stand-Alone/Wiegand Keypad with Proximity Reader Getting Ready to Program (Continued): Enter and Exit Base Programming Mode: All programming of the keypad is done from base programming mode. Enter base programming mode using the master programming code: XXXXXX
 (One beep will sound and the LED will flash red) NOTE: XXXXX is the master programming code (6 digits). 123456 is the default (see "Programming the Master Programming Code," pg. 8). Within the base programming mode, press a function code (see Programming Format and Default Values," below) to enter function programming mode (the LED changes to steady orange). The function code is not repeated between programming different items under the same function code.

Deleting Users: Deleting Individual User/Duress Codes or cards: To delete a user or duress code/card, use the following general formula from within base programming mode (see "Enter and Exit Base Programming Mode," pg. 7): 2 AAA...# Delete Users function code (a short beep will sound and the LED will change to steady orange) Either: A - 0 to 0999 - the user/duress ID (Duress IDs must use this method) A - XXXXX - the user code (4-6 digits) A – Read card The Master Delete Card works similar to the Master Add Card, but allows you to delete cards/codes quickly without entering programming mode. The card takes you directly into the "delete user" function mode without needing to enter the master programming code and the <a> delete user function code.

between 0 and 997. When programming cards, use the following general formula after entering base programming mode (see "Enter and Exit Base Programming Mode," pg. 7): SECO-LARM U.S.A., Inc.

ENFORCER Outdoor Stand-Alone/Wiegand Keypad with Proximity Reader

user function code only before adding the first user. To continue to add other users in the same session, do not repeat the add user function code 1. Programming User Codes: User codes may be assigned to User IDs between 0 and 997. Do not use this method for adding a user code to an existing card user. **Programming User Codes Individually:**

Deleting Cards with the Master Delete Card Once in this mode, you delete cards/codes using any of the methods described above, but omitting the When complete, present the Master Delete Card again to return to standby mode. **Deleting All Users:** To delete all users while retaining the keypad configuration, use the following formula from within base programming mode (see "Enter and Exit Base Programming Mode," pg. 7): 2 XXXXXX # Delete Users function code (a short beep will sound and the LED will change to steady orange) XXXXX - Master programming code Duress IDs cannot be deleted using their user code or card, but must be deleted with the Duress ID. Any of the above methods will delete the user ID along with any code/card connected to it. The key returns you to base programming mode (the LED will flash red). Exit programming mode

 Program Access Mode function code (LED will change to steady orange) A – Access Mode Access Mode / Security Level: User card access only 1 – User card+code Either user card or code (default) 3 2~9 – Multiple user cards or codes (the second number 2~9 sets the number of cards/codes required for access). NOTE: The 🗷 key returns you to base programming mode (the LED will flash red). Exit programming mode by pressing the Likey (see "Enter and Exit Base Programming Mode," pg. 7).

Examples:

NOTES:

4 3 4 #

1. Set the access mode to card only:

Set the access to require four user codes/cards:

Programming User Proximity Cards (Continued): Additional users may be entered in succession without repeating the function code 1. The let key returns you to base programming mode (the LED will flash red). Exit programming mode by pressing the E key (see "Enter and Exit Base Programming Mode," pg. 7). Examples: Program user card for User ID #0: □ ■ Read Card ■ 2. Program a user card allowing the device to auto-assign to the first available User ID (not recommended unless you have a complete record of already assigned User IDs): Read Card 3. Program a batch of 50 cards, starting with card# 23456789 and beginning with user ID #0: 1 0 # 50 # 23456789 (or read card# 23456789) # NOTE: The add user function code I places you into this function programming mode. Press the add

you directly into the "add user" function mode without needing to enter the master programming code and the 1 add user function code. Once in this mode, you made add codes using the methods described above, but omitting the 1. When complete, present the Master Add Card again to return to standby mode. It is important to record each User ID assigned in order to simplify future user management. · A user ID can only have a single card or single code assigned (except by using the method described in "Changing the User Code for an Existing User," on pg. 12 when in the "card+code" security level). If you try to add a user code to an existing user ID that already has a user card assigned, the user card will be removed. SECO-LARM U.S.A., Inc.