AC-A4x Family

Indoor Standalone Controller

Installation and Programming Manual

Models:

AC-A41

AC-A42

ROSSLARE

SECURITY PRODUCTS

Table of Contents

List of Figures

List of Tables

Notice and Disclaimer

This manual's sole purpose is to assist installers and/or users in the safe and efficient installation and usage of the system and/or product, and/or software described herein.

BEFORE ATTEMPTING TO INSTALL AND/OR USE THE SYSTEM, THE INSTALLER AND THE USER MUST READ THIS MANUAL AND BECOME FAMILIAR WITH ALL SAFETY REQUIREMENTS AND OPERATING PROCEDURES.

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- The use of the software associated with the system and/or product, if applicable, is subject to the terms of the license provided as part of the purchase documents.
- ROSSLARE exclusive warranty and liability is limited to the warranty and liability statement provided in an appendix at the end of this document.
- This manual describes the maximum configuration of the system with the maximum number of functions, including future options. Therefore, not all functions described in this manual may be available in the specific system and/or product configuration you purchased.
- Incorrect operation or installation, or failure of the user to effectively maintain the system, relieves the manufacturer (and seller) from all or any responsibility for consequent noncompliance, damage, or injury.
- The text, images and graphics contained in the manual are for the purpose of illustration and reference only.
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- All graphics in this manual are for reference only, some deviation between the image(s) and the actual product may occur.
- All wiring diagrams are intended for reference only, the photograph or graphic of the PCB(s) are intended for clearer illustration and understanding of the product and may differ from the actual PCB(s).

1. Introduction

The AC-A4x access control units are indoor standalone controllers. The units accept up to 500 users and allow entry via a personal identification number (PIN) and/or by presenting a proximity card.

1.1 Reader/Controller Types

The two types of units described in this manual are:

	Keypad Type	PIN	Proximity
AC-A41	Standard	✓	×
AC-A42	Standard	✓	✓

1.2 Key Features

- Built in keypad for PIN code entry
- Built-in proximity card reader (125 kHz ASK modulation) (AC-A42 only)
- Auxiliary Input and Auxiliary Output
- Eight Auxiliary Modes including Door Ajar, Forced Door, Shunt, Door Monitor, and Normal/Secure
- Internal buzzer
- Comes with security screw and security screw tool
- Two status/programming interface LEDs
- Three user levels (Normal User, Secure User, Master User)
- Three modes of operation (Normal Mode, Bypass Mode, Secure Mode)
- "Code Search" feature simplifies maintaining user codes
- Input for REX button
- Lock Strike Electronic Relay with built-in suppressor protection
- Comes with mounting template for easier installation
- Built-in case and back tamper

- Bell, chime, siren, and strobe features available with BL-D40
- Bell, chime, siren, battery backup, tamper output (open collector 20 mA) features available with PS-X41 (output power 1.2 A) and PS-X42 (output power 1.8 A)
- Programmable siren time
- Programmable Lock Strike Release Time

1.3 Equipment

The following equipment is provided in every AC-A4x package:

- AC-A4x Access Control Unit
- Installation kit
- Installation and operating instructions

1.4 Additional Equipment

The following additional equipment is required:

- Electric Lock Strike Mechanism – Fail Safe (Power to Lock) or Fail Secure (Power to Open)
- Power supply with backup battery – 12 to 16 VDC (from a regulated power supply)
- Request to Exit (REX) button – Normally Open Type; switch is closed when pressed.
- BL-D40 External Sounder (optional) – Provides siren, bell, and chime functions to AC-A4x

Other Rosslare accessories can be found at Rosslare's website: http://www.rosslaresecurity.com

2. Technical Specifications

Electrical Characteristics	
Operating Voltage Range	12–16 VDC From a regulated power supply
Input Current	Standby: 40 mA (excluding attached devices) Max: 100 mA (excluding attached devices)
Relay Outputs	▪ Lock Strike Relay – 3.5 A with built-in suppressor protection ▪ Auxiliary Relay – Form C, 1 A

Inputs	▪ REX: N.O., Dry Contact
	▪ Auxiliary Input (In/Monitor):
	  ▪ Monitor mode: N.C., Dry Contact
	  ▪ Input Mode: N.O., Dry Contact

LEDs	Two tri-colored LEDs
Built-In Proximity Reader (AC-A42)	▪ Read Range:* 90 mm (3.5 in.) ▪ Modulation: ASK at 125 kHz ▪ Compatible cards: All 26-Bit EM cards
Environmental Characteristics	
Operating Temperature Range	-32°C to 63°C (-25°F to 145°F)
Operating Humidity Range	0 to 95% (non-condensing)
Mechanical Characteristics	
Dimensions (Length x Width x Depth)	122 x 75 x 24 mm (4.8 x 3.0 x 0.9 in.)
Weight	140 g (4.9 oz)

* Measured using a Rosslare proximity card or equivalent. Range also depends on electrical environment and proximity to metal.

3. Installation

Note

Installation of an RFID reader adjacent to metallic surfaces might alter the reader's specifications. To diminish this interference, use a plastic spacer when mounting the reader.

3.1 Mounting Instructions

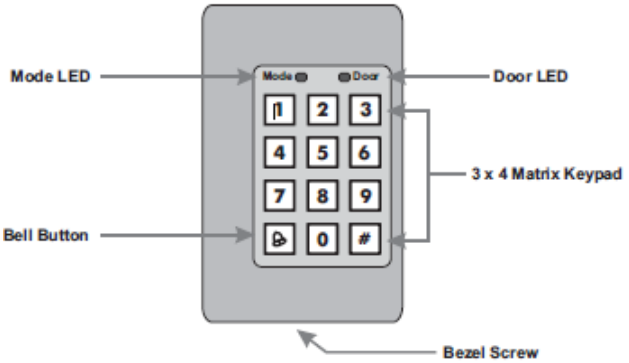
Before starting, select the location to mount the AC-A4x controller. This location should be at shoulder height and on the same side as the door handle.

The controller is designed to be easily mounted onto a US Gang Box.

To mount the controller:

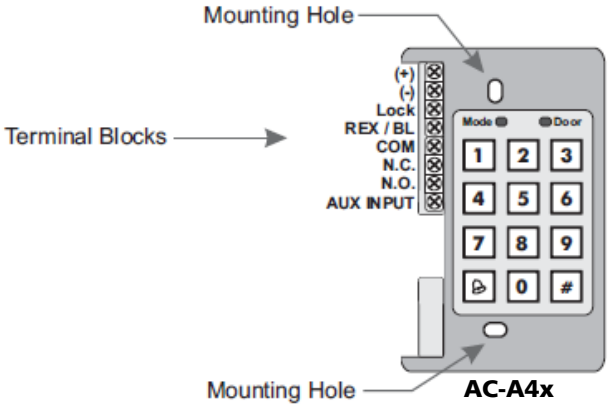
1. Remove the bezel screw from the unit (see Figure 1).

Figure 1: AC-A4x Controller – Labeled Diagram



2. Screw the controller onto a US Gang Box through the two mounting holes provided (see Figure 2).

Figure 2: AC-A4x Controller – Mounting Holes and Terminal Blocks



3. Wire the controller as shown in Section 3.2.
4. Replace the controller's bezel and replace the factory default screw with the security screw that is provided in the installation kit. A security screw tool is also provided in the installation kit.

3.2 Wiring Instructions

Three typical wiring diagrams are shown in Figure 3 through Figure 5.

Figure 3: Wiring the Lock Strike Relay and REX

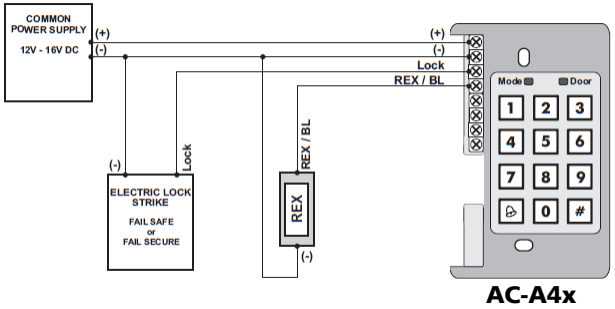


Figure 4: Wiring the Auxiliary Input and Output

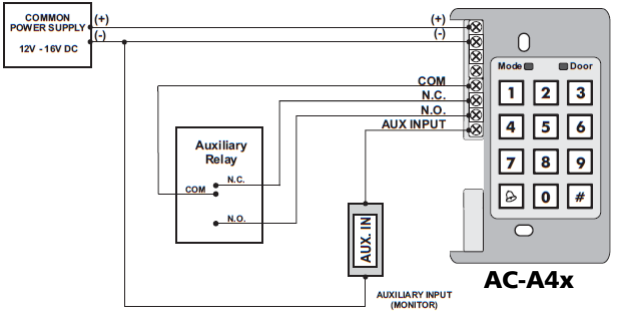
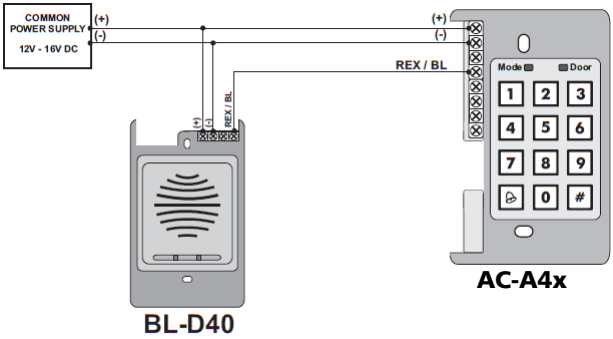


Figure 5: Wiring the BL-D40 External Sounder



For other wiring diagram examples, refer to the support section of the Rosslare website: http://www.rosslaresecurity.com/.

4. Normal, Secure, and Master Users

The AC-A4x series accept up to 500 users and provide entry via the use of proximity cards and/or PIN codes. Each user is provided with two code memory slots: Memory Slot 1 (Primary code) and Memory Slot 2 (Secondary code). For the AC-A42, the two memory slots can be programmed as proximity cards, PIN codes, or a combination of both proximity cards and PIN codes.

The way that the two memory slots are programmed determines a user's access level and also determines the way that the units grant access in their three modes of operation (Chapter 5).

There are three user levels:

- Normal User – A Normal User only has a Primary code and is only granted access when the AC-A4x is in Normal or Bypass mode.
- Secure User – A Secure User must have a Primary and Secondary codes programmed; the two codes cannot be the same. The Secure User can gain access when the AC-A4x is in any of its three modes of operation. In Normal mode, the Secure User must use a Primary code to gain entry. In Secure mode, the Secure User must present both a Primary and Secondary code to gain entry.
- Master User – A Master User must have both Primary and Secondary codes programmed with the same proximity card or PIN code. The Master User can gain access during any mode of operation by presenting the proximity card (AC-A42 only) or entering the PIN code. (The Master User is convenient, but is less secure than a Secure User.)

5. Modes of Operation

- In the Operation chapter, "code" refers to a PIN code or proximity card depending on the unit you have.
- Memory slots can be a proximity card or PIN code depending on the unit you have.

The AC-A4x series have three modes of operation:

- Normal mode – Mode LED is green

Normal Mode is the default mode. In Normal mode, the door is locked until a Primary code is presented to the controller. Special codes such as "Open Code" and "Auxiliary Code" are active in Normal mode (see Sections 11.3 and 11.4).

- Bypass mode – Mode LED is orange

In Bypass mode, access to the premises is dependent on whether the controller's Lock Strike Relay is programmed for Fail Safe Operation or for Fail Secure Operation.

When the Lock Strike Relay is programmed for Fail Secure Operation, the door is locked until the doorbell button is pressed. When the Lock Strike Relay is programmed for Fail Safe Operation, the door is constantly unlocked.

- Secure mode – Mode LED is red

Only Secure and Master Users can access the premises during the Secure Mode. A Secure User must enter a Primary and a Secondary code to gain entry. After entering the Primary code, the Door LED flashes green for 10 seconds, during which time the Secondary code must be entered. A Master User only needs to present the proximity card or enter the PIN code once to gain entry.

6. Changing the Modes of Operation

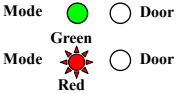
6.1 Changing from Normal to Secure Mode

The default factory setting for the Normal/Secure code is 3838.

To change from Normal to Secure mode:

1. Enter the 4-digit Normal/Secure code.

   The Mode LED flashes red.



2. Press **#** to confirm the mode change.

   The Mode LED turns red.

The Auxiliary Input can also be used to switch the Mode of Operation from Normal to Secure and vice versa (see Section 11.8).

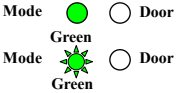
6.2 Changing from Secure to Normal Mode

The default factory setting for the Normal/Secure code is 3838.

To change from Secure to Normal mode:

1. Enter the 4-digit Normal/Secure code.

   The Mode LED flashes green.



2. Press **#** to confirm the mode change.

   The Mode LED turns green.

The Auxiliary Input can also be used to switch the Mode of Operation from Secure to Normal and vice versa (see Section 11.8).

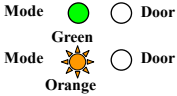
6.3 Changing from Normal to Bypass Mode

See Section 11.7 to create/modify the Normal/Bypass code.

To change from Normal to Bypass mode:

1. Enter the 4-digit Normal/Bypass code.

   The Mode LED flashes orange.



2. Press **#** to confirm the mode change.

   The Mode LED turns orange.

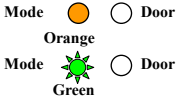
6.4 Changing from Bypass Mode to Normal Mode

See Section 11.7 to create/modify the Normal/Bypass code.

To change from Bypass to Normal mode:

1. Enter the 4-digit Normal/Bypass code.

   The Mode LED flashes green.



2. Press **#** to confirm the mode change.

   The Mode LED turns green.

7. Auxiliary Input and Output

For optimum usability in different applications, the controller's auxiliary input and output can be configured in 8 different modes of operation (see Section 11.8).

8. REX Button

The REX button is used to open the door without the use of proximity card or PIN code, and must be located inside the premises to be secured. It is usually located in a convenient location, such as inside the door or at a receptionist's desk. The function of the REX button depends on whether the Lock Strike Relay is programmed for Fail Safe Operation or for Fail Secure Operation. The door chime in the BL-D40 does not sound when the REX button is used to open the door.

- Fail Secure Operation: From the moment the REX button is pressed, the door remains unlocked until the Lock Strike Release Time passes. After this time, the door is locked even if the REX Button is not released.
- Fail Safe Operation: From the moment the REX Button is pressed, the door remains unlocked until the REX Button is released and the Lock Strike Release Time passes. In this case, the Lock Strike Relay only begins its countdown once the REX Button is released.

9. Case and Back Tamper

If the case of the controller is opened or the controller is removed from the wall, a tamper event is triggered and a coded tamper signal is sent to a BL-D40, PS-X41 Series, or PS-X42 Series Power Supply, or to another compatible device.

If the BL-D40 External Sounder, PS-x41 Series, or PS-x42 Series Power Supplies receive a tamper event signal, it activates a siren, and if available, a strobe light. The siren time can be easily programmed in the AC-A4x unit from zero to nine minutes.

You can clear a tamper event by entering a valid User or Open code to open the Lock Strike Output in the current mode of operation. For example, while in Secure mode, you cannot use the Open code to clear the tamper event, because the Open code does not work in Secure mode. However, you can apply a Master code or Secure code to clear the tamper event in Secure mode.

10. BL-D40 External Sounder

The BL-D40 External Sounder is compatible with the AC-x31, AC-x32, AC-x41, and AC-x42 series of standalone controllers. (For a more up-to-date list of compatible products, check the Rosslare website at www.rosslaresecurity.com.) It is designed to operate indoors and is installed within the premises to be secured. The sounder can be powered by a 16 VAC or 12 to 24 VDC power supply.

The BL-D40 is capable of emitting four different types of alerts, both audible and visual: Bell, Door Chime, Siren, and Strobe Light.

- The bell always sounds when the controller's doorbell button is pressed.
- The door chime can be programmed to sound whenever the controller unlocks the door (the door chime does not sound when the REX button is used to open the door).
- The siren can be programmed to sound when the case of the controller is opened or when the controller is removed from the wall. The controller can also program the length of the siren in the BL-D40.

The controller communicates with the BL-D40 using a coded proprietary Rosslare communications protocol. This provides a more secure link between the controller and the BL-D40. If the BLD40 receives any unrecognized codes on its communication line, or communication between the controller and the BL-D40 are severed, the strobe flashes repeatedly until the communication problem is resolved.

11. Programming the AC-A4x

You can program the AC-A4x solely via the unit's keypad-driven programming menu system. To reach the programming menu system, first place the unit into Programming mode (see Section 11.1).

During the AC-A4x manufacturing process, certain codes and settings are pre-programmed. These settings are called the default factory settings.

Table 1 shows the names of all the AC-A4x menus. It also shows all the unit's default factory codes and settings.

Table 1: Programming Menus

Menu Number	Menu Description	Factory Settings
1	Change Open Code 1	2580
2	Change Auxiliary Code	0852
3	Change Program Code	1234
4	Change Normal/Secure Code	3838
5	Change Normal/Bypass Code	N/A
6	Change Door Release Time	0004
	Define Auxiliary Inputs/Outputs	2004
7	Enroll proximity cards, PIN code or both	
8	Delete proximity cards or PIN code	
9	Code Assignment with Strike/Auxiliary	
0	Return to default factory settings	

A complete description and instructions for each of the above menu items is detailed in the following subsections.

11.1 Entering Programming Mode

To enter Programming mode:

1. Press **#** for two seconds.

   The Mode LED turns off and the Door LED turns red.

2. Enter your 4-digit Programming code.

   If the Programming code is valid, the door LED turns green and the unit goes into Programming mode.

The unit must be in Normal mode to enter the Programming mode.

The factory default Programming code is 1234.

If a Programming code is not entered within five seconds, the unit returns to Normal mode.

11.2 Exiting Programming Mode

To exit Programming mode:

1. Press **#** for two seconds.

   Three beeps are emitted.

   The Door LED turns off.

   The Mode LED turns green, indicating that the unit has returned to Normal mode.

Wrong entries may reset the controller back to Normal mode.

While in Programming mode, if no key is pressed for one minute, the unit exits Programming mode and returns to Normal mode.

In certain Programming modes, a quick press on **#** may also return the system to Normal mode.

11.3 Changing the Open Code

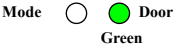
The Open code is mainly used as a method to quickly test the Lock Strike Relay during installation.

The default factory setting for Open code is 2580.

When the first user is added to the controller, the default Open code is automatically deleted, and is ready for a new Open code to be re-entered.

To change the Open code:

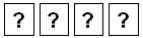
1. Enter Programming mode.



2. Press **1** to enter Menu 1.

   The Mode LED turns red.

3. Enter the new 4-digit code that you want to set as the Open code.



   The system returns to Normal mode.

The Open code does not function in Secure mode.
Wrong entries return the controller to Normal mode.
Code 0000 erases and deactivates the Open code.

11.4 Changing the Auxiliary Code

The Auxiliary code is mainly used as a method to quickly test the Lock Strike Relay during installation.

The default factory setting for the Auxiliary code is 0852.

When the first user is added to the controller, the default Auxiliary code is automatically deleted, and is ready for a new Auxiliary code to be re-entered.

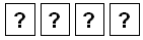
To change the Auxiliary code:

1. Enter Programming mode.

2. Press **2** to enter Menu 2.

   The Mode LED turns orange.

3. Enter the new 4-digit code that you want to set as the Auxiliary code.



   Three beeps are emitted.

   The system returns to Normal mode.

The Auxiliary code does not function in Secure mode.
Auxiliary code only works when the Auxiliary mode is 1 or 2.
Code 0000 erases and deactivates the Auxiliary code.

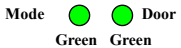
11.5 Changing the Programming Code

To change the Programming code:

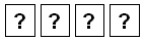
1. Enter Programming mode.

2. Press **3** to enter Menu 3.

   The Mode LED turns green.



3. Enter the new 4-digit code that you want to set as the Programming code.



   Three beeps are emitted.

   The system returns to Normal mode.

The Programming code cannot be erased; code 0000 is invalid and does not erase the Programming code.

11.6 Changing the Normal/Secure Code

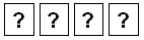
To change the Normal/Secure code:

1. Enter Programming mode.

2. Press **4** to enter Menu 4.

   The Mode LED flashes red.

3. Enter the new 4-digit code that you want to set as the Normal/Secure code.



   Three beeps are emitted.

   The system returns to Normal mode.

> Note: When the Auxiliary Mode is 1, 2, 3, or 4, the Auxiliary Input takes priority over the Normal/Secure code.

11.7 Changing the Normal/Bypass Code and Door Chime Settings

The Normal/Bypass code is also used to turn the door chime off and on.

To change the Normal/Bypass code and Door Chime Settings:

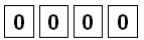
1. Enter Programming mode.

2. Press **5** to enter Menu 5.

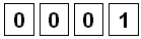
   The Mode LED flashes orange.

3. There are four different ways to program the Normal/Bypass code and door chime:

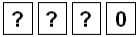
   - Disable both Bypass code and the door chime. Enter the code **0000**.



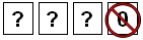
- Disable Bypass code and enable the door chime. Enter the code **0001**.



- Enable Bypass code and disable the door chime. Enter any code ending with 0.



- Enable Bypass code and enable the door chime. Enter a code not ending with 0.



Three beeps are emitted.

The system returns to Normal mode.

Note

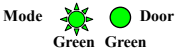
The door is only generated when the Lock Strike Relay is activated due to a valid code entry.

11.8 Defining the Auxiliary Input and Output

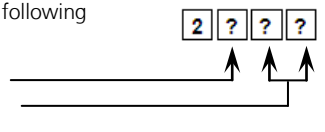
1. Enter Programming mode.

2. Press **6** to enter Menu 6.

The Mode LED flashes green.



3. Construct a code using the following instructions:



   - Auxiliary Mode

     In addition to the Lock Strike Relay and Lock Strike REX, the controller features an Auxiliary Output Relay and an Auxiliary Input. The Auxiliary mode defines the function of the Auxiliary Input and Output.

     The Auxiliary mode also determines if the Auxiliary Output Relay is set for Fail Safe or Fail Secure Operation.

   - Auxiliary Settings

     Each of the Auxiliary modes has a two-digit setting that affects how the Auxiliary mode functions.

   Three beeps are emitted.

   The system returns to Normal mode.

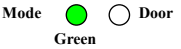


Table 2: Quick Reference Guide for Auxiliary Mode Setting

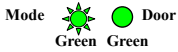
Aux. Mode	Aux. Input Function	Aux. Output Activated by	Aux. Relay	Aux. Settings (in seconds)
0	REX-2	Valid code or REX-2	N.O.	01 to 99 Aux. Relay Release Time 00 Aux. Relay Toggles
1	Normal/Secure switch	Valid code	N.O.	01 to 99 Aux. Relay Release Time 00 Aux. Relay Toggles
2	Normal/Secure switch	Bell button	N.O.	01 to 99 Aux. Relay Release Time 00 Aux. Relay Toggles
3	Normal/Secure switch	Tamper event	N.C.	01 to 99 Aux. Relay Release Time 00 Aux. Relay activated by Tamper
4	Normal/Secure switch	Direct shunt	N.O.	00 to 99 Shunt time
5	Door Monitor	Shunt	N.C.	00 to 99 Maximum shunt time
6	Door Monitor	Forced door	N.C.	00 to 99 Forced delay
7	Door Monitor	Door ajar	N.C.	00 to 99 Ajar delay

11.9 Setting Fail Safe/Secure Operation, Tamper Siren Time, and Lock Strike Release Time

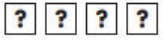
1. Enter Programming mode.

Press **6** to enter Menu 6.

The Mode LED flashes green.



2. Construct the 4-digit code using the following instructions:



- First Digit

  For Fail Secure Operation, the first digit should be **0**.

  For Fail Safe Operation the first digit should be **1**.

- Second Digit

  Tamper Siren time in minutes (1–9)

- Third and Fourth Digits

  Enter the number of seconds (from 1 to 99) that you want the Lock Strike to be released.

  For example, **0512** means a Fail Secure Operation consisting of a 5-minute siren and a 12-second Lock Strike release time.

Three beeps are emitted.

The system returns to Normal mode.

11.10 Enrolling Primary and Secondary Codes

11.10.1 Primary Codes

- Primary codes can only be enrolled to an empty user slot, meaning a slot where there is no existing Primary code.
- Primary codes must be unique, meaning that one user's Primary code cannot be the same as another user's Primary code.

- Primary codes cannot be the same as any system codes, such as the Normal/Secure code or Open code.
- Users who hold a Primary code can gain entry only during Normal mode.

11.10.2 Secondary Codes

- Secondary codes can only be enrolled to a user slot that already has a Primary code enrolled, but no Secondary code.
- Secondary codes do not have to be unique, meaning that multiple users can all hold the same Secondary code.
- Secondary codes cannot be the same as any system codes, such as the Normal/Secure code or Open code.
- Users who hold Secondary codes can gain entry in any mode of operation.

11.10.3 Enrolling Primary and Secondary Codes

There are two methods to enroll Primary and Secondary codes:

- Standard Method

  Mainly used when the user slot number for the user that you want to program is known. You can program both Primary and Secondary codes using the Standard method (see Section 11.10.4).

- Code Search Method

  Mainly used when enrolling a user's Secondary code and the user slot code is unknown. The Code Search method only works if a user's Primary code is already enrolled but the Secondary code is not (see Section 11.10.5).

11.10.4 Enrolling Primary and Secondary Codes Using the Standard Method

To enroll primary and secondary codes using the Standard method:

1. Enter Programming mode.

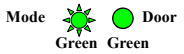
2. Press **7** to enter Menu 7.

   The Door LED turns orange.

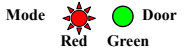
3. Perform one of the following:

   a. Enter a 3-digit User Slot number between 001 and 500 to indicate the user to whom you want to enroll a Primary or Secondary code.
   For example, the User Slot 003 represents User #3.

   If the selected slot has no Primary code, the Mode LED flashes green, indicating that the controller is ready to accept a Primary code.



   If the selected slot already has a Primary code but no Secondary code, the Mode LED flashes red, indicating that the controller is ready to accept a Secondary code.



   If the selected slot already has a Primary and Secondary code, you hear a long beep and the controller returns to Normal mode.

b. Present a proximity card (AC-A42) or enter the 4-digit PIN that you want to assign as the Primary or Secondary code for this slot number.

   If the proximity card or PIN entered is valid, the Mode LED stops flashing and the controller is ready for you to enter the next 3-digit slot number (refer to Step **a**) that you want to assign a code to.

4. Do one of the following:
   a. Press **#** to move to the next slot number.
   b. If you do not wish to continue enrolling codes, press **#** twice and the controller returns to Normal mode.

11.10.5 Enrolling Secondary Codes Using the Code Search Method

The Code Search feature enables you to quickly enroll a Secondary code to a user who already has a Primary code.

To enroll secondary codes using the Code Search method:

1. Enter Programming mode.

2. Press **7** to enter Menu 7.

   The Door LED turns orange.

3. Enter the 3-digit User Slot number **000**.

   The Door LED flashes orange.

   The controller is now waiting for the Primary code of the User to whom you want to add a Secondary code.

4. Present the proximity card (AC-A42) or enter the 4-digit PIN code of the Primary code belonging to the user for whom you want to add a Secondary code.

5. The Mode LED flashes red.

   If the Primary code entered is not valid, a long beep is emitted and the unit continues to wait for a valid Primary code.

6. Present the proximity card or enter the 4-digit PIN code to be used as the Secondary code:

   If the Secondary code is valid, the controller beeps three times and returns to Normal mode.

   If the Secondary code is invalid, the controller emits a long beep and continues to wait for you to enter a valid Secondary code.

11.11 Deleting Primary and Secondary Codes

There are two methods to delete Primary and Secondary codes: the Standard Method and the Code Search method.

When deleting a user slot, both the Primary code and the Secondary code are erased.

11.11.1 Deleting Primary and Secondary Codes Using the Standard Method

To delete the Primary and Secondary codes using the Standard Method:

1. Enter Programming mode.

2. Press **8** to enter Menu 8.

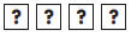
   The Mode LED turns red and the Door LED turns orange.

3. Enter the 3-digit user slot code you wish to delete.

The Mode LED flashes red indicating the controller is waiting for the Programming code to confirm the deletion.

If the user slot is empty, a long beep is emitted and the unit returns to Normal mode.

4. Enter your programming code to confirm the deletion.



If the Programming code is valid, three beeps are emitted and the unit returns to Normal mode.

If the Programming code is invalid, a long beep is emitted and the unit returns to Normal mode.

It is recommended that a record be kept of added and deleted users so that it is easier to keep track of which user slots are empty and which user slots are not.

11.11.2 Deleting Primary and Secondary Codes Using the Code Search Method

To delete the Primary and Secondary codes using the Code Search Method:

1. Enter Programming mode.

2. Press **8** to enter Menu 8.

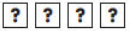
The Mode LED turns red and the Door LED turns orange.

3. Enter **000** as the 3-digit user slot number.

The Door LED flashes orange, indicating that the controller is now waiting for the Primary code of the user you want to delete.

The controller is now waiting for the Primary code of the user you want to delete.

4. Present the proximity card or enter the 4-digit PIN code of the Primary code belonging to the user you want to delete.



The Mode LED flashes red.

5. Enter your Programming code to confirm the deletion.

   If the Programming code is valid, three beeps are emitted and the unit returns to Normal mode.

   If the Programming code is invalid, a long beep is emitted and the unit returns to Normal mode.

It is recommended that a record be kept of added and deleted users so that it is easier to keep track of which user slots are empty and which user slots are not.

11.12 Lock Strike Relay and Auxiliary Relay Code Assignment

When a Primary code is enrolled for any user, that user is assigned rights to activate the Lock Strike Relay when a valid code is presented to the controller. The Code Assignment menu allows you to assign whether the Lock Strike Relay and/or the Auxiliary Relay is activated when a user enters a valid code.

There are two methods to assign relay codes to users: a standard method and a search method.

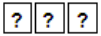
11.12.1 Lock Strike Relay and Auxiliary Relay Code Assignment using Standard Method

1. Enter Programming mode.

2. Press **9** to enter Menu 9.

   The Mode LED turns green and the Door LED turns orange.

3. Enter the 3-digit user slot for code assignment.



   The Mode LED flashes green.

4. Enter the assignment digit for the current user slot:
   - **1** activates the Lock Strike relay only default
   - **2** activates the Auxiliary relay only
   - **3** activates the Lock Strike and Auxiliary relays

   If the assignment code is valid, the Mode indicator stops flashing.

   The controller is now waiting for another slot number.

5. Press **#** to move to the next slot or enter a new slot number.

   If you do not wish to continue, press **#** twice and the controller returns to Normal mode.

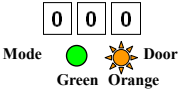
11.12.2 Lock Strike Relay and Auxiliary Relay Code Assignment using Search Method

1. Enter Programming mode.

2. Press **9** to enter Menu 9.

   The Mode LED turns green and the Door LED turns orange.

3. Enter **000** for user slot access.



The Door LED flashes orange.

The controller is now waiting for the Primary code of the user.

4. Present the proximity card or enter the primary code belonging to the user.

The Mode LED flashes green.

5. Enter the assignment digit for the current user slot:
   - **1** activates the Lock Strike relay only default
   - **2** activates the Auxiliary relay only
   - **3** activates the Lock Strike and Auxiliary relays

   If the assignment digit is valid, three beeps are heard and the controller returns to Normal mode.

   If the assignment digit is invalid, a long beep sounds and the controller waits for another assignment digit to be entered.

11.13 Return to Factory Default Settings

Be very careful before using this command as it erases the entire memory, including all User and Special codes, and returns all codes to their factory default settings.

To return to factory default settings:

1. Enter Programming mode.

2. Press **0** to enter Menu 0.

The Mode LED and the Door LED flash red.

3. Enter your 4-digit Programming code.

- If the Programming code is valid, all memory is erased, three beeps are emitted, and the controller returns to Normal mode.
- If the Programming code is invalid, a long beep is emitted, and the controller returns to Normal mode without erasing the memory of the controller.

11.14 Replacing a Lost Programming Code

To be able to replace a lost programming code, the unit must be in Normal mode. Before proceeding, verify that the Mode LED is green.

1. Remove power from the controller.
2. Press the REX button.
3. Apply power to the unit while pressing the REX button.
4. Release the REX button.
5. You have 15 seconds to program a new Programming code into the unit using the initial default code 1234 before the controller reverts to the existing code.

11.15 Replacing a Lost Normal/Secure Code

To be able to replace lost Normal/Secure code, the unit must be in Secure mode. Before proceeding, verify that the Mode LED is red.

1. Remove power from the AC-A4x.
2. Press the REX button.
3. Apply power to the unit while pressing the REX button.
4. Release the REX button.
5. You have 15 seconds to program a new Normal/Secure code into the unit using the initial default code 3838 before the controller reverts to the existing code.

A. Limited Warranty

The full ROSSLARE Limited Warranty Statement is available in the Quick Links section on the ROSSLARE website at www.rosslaresecurity.com.

Rosslare considers any use of this product as agreement to the Warranty Terms even if you do not review them.

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