

# AC-015

## Single-Door Access Control Programmer

Hardware Installation and Programming  
Manual



**ROSSLARE**  
SECURITY PRODUCTS

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## 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.**

- The system must not be used for purposes other than those for which it was designed.
- 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.
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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-015 Single-Door Access Control Programmer allows you to add or delete employees from the system, change system mode status and change system authorization codes.

The AC-015 provides a higher level of security as the programmer is normally placed in a secure location while the reader sensor is remotely located outside the premises to be controlled. Should the remote sensor be attacked, entry cannot be gained as the remote sensor only provides data to the programmer, not authorization to release the controlled door.

The system may be connected with the optional PC monitor program for easier management of the employee database or for online monitoring of door access. The system is linked to a PC via RS-232 serial link. The PC receives information from the AC-015, which is displayed and saved to a database.

Codes entries and their consequences are visible in Online mode of the software. The Employees menu is used to describe, enter and associate employee code numbers with employee name and details.

Programming menu is used to define door details, working days and holiday definitions. Reports menu specifies which kind of report to build. Options menu is used for communication setup, language setup, operator's password and database status. For more details refer to the AC-015 Monitor Program Manual. The AC-015 accepts up to 500 employees via the use of proximity cards (provided separately) or PIN codes into the system. Each employee is issued a unique proximity card or PIN code.

Employees designated 01 to 10 are Master Users and can operate the system in both the Normal and Secure modes of operation. Employees 11 to 500, when entered from the external reader sensor, may only operate the system in both the Normal and Bypass modes of operation.

It is very important to keep an accurate record of the slot number and its assignment to each employee. This is to enable you to add



additional employees at a later time or to delete a proximity or PIN code if one is lost or stolen. A record form is enclosed for your reference to assist you with your record keeping.

The AC-015 is capable of learning both PIN codes (keyboard based, 4-digit codes) and proximity codes (received from proximity card reader). The system can be connected to up to two reader sensors. An external reader is to be located outside the restricted area, and it is always required. The second reader is for internal installation. Readers need to be a Wiegand 26-Bit interface type, and may be a proximity card reader (for proximity codes), keyboard (for PIN type codes), or combined PIN/proximity reader.

A PIN reader, connected to indoor reader input, can perform all the operations usually performed from the onboard keyboard (depending on the PIN reader model). A PIN reader connected to an external reader input will behave similarly, but access level is different on certain AC-015 status of operation.

## **1.1 Key Features**

- RS-232 PC Interface
- Multi-language PC software
- Supports up to 500 employees
- Real-time system monitoring
- Supports two Wiegand 26-Bit compatible readers
- Three modes of operation
  - Normal mode
  - Bypass mode
  - Secure mode
- Lock Strike Relay Output
- Request-to-Exit (REX) button
- Internal siren
- Comes with security screw and security tool
- Two status/programming Interface LEDs

## Introduction

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- Built-in programming keypad
- Battery charger
- Built-in case tamper
- Bell, Chime, and Strobe annunciator
- Programmable Lock Strike release time.
- Built-in Lock Strike suppressor diode.
- Comes with mounting template for easier installation.
- Built-in Reader power supply
- Built-in Lock Strike power supply

## 2. Technical Specifications

### 2.1 Electrical Characteristics

#### 2.1.1 Main Unit

<b>Operating Voltage</b>	16 VAC (1.5 A, 25 VA) From a transformer
<b>Maximum Input Current</b> (not including attached devices)	Standby: 65 mA Maximum: 120 mA
<b>Battery Charger</b>	12 VDC Lead Acid Battery Up to 7 AH recommended

#### 2.1.2 Outputs

<b>Lock Strike Relay Output</b>	5 A Relay
<b>Lock Strike Power Supply</b>	12 VDC constant voltage 1.2 A current limit N.O. or N.C. option
<b>Tamper Relay Output</b>	1 A Relay N.C. Dry Contact
<b>Reader Power Supply</b>	Voltage: 12 VDC Max Current: 300 mA

#### 2.1.3 Inputs

<b>REX</b>	N.O. Dry Contact
<b>Two Reader Inputs</b>	Wiegand 26-Bit compatible

#### 2.1.4 Indicators and Annunciators

<b>Visual</b>	Two tri-colored LEDs
<b>Audio</b>	Built-in sounder (bell, chime & siren) Piezoelectric buzzer

### 2.2 Environmental Characteristics

<b>Operating Temperature Range</b>	-31°C to 63°C (-25°F to 145°F)
<b>Operating Humidity Range</b>	0 to 95% (non-condensing)

### 2.3 Mechanical Characteristics

<b>Dimensions (L x W x D)</b>	134 x 85 x 30 mm (5.3 x 3.4 x 1.2 in.) (fits US Gang Box)
<b>Weight</b>	220 g (7.76 oz)

### 3. Installation

The AC-015 has been designed for easy installation. Only a few steps are required to install the controller.

In this section you will learn how to mount the controller in your desired location. You will learn how to wire the controller to its power source, which includes attaching the controller to a rechargeable Lead Acid battery.

Wiring diagrams are also provided for attaching the controller to the REX button, and external Wiegand 26-bit compatible readers. Also covered in this section is how to wire the AC-015 to a PC.

Topics in this section:

- Mounting the Controller
- Power Wiring
- Typical Lock and Option Wiring
- Reader Wiring
- Connecting a Controller to a PC

### 4. Mounting the Controller

Before starting, select the location for mounting the AC-015 controller. The controller should be installed indoors and within the premises to be secured. It is recommended that the controller be installed where it cannot be seen for increased security, but still close enough to the doors so that the controller's annunciator (Door Bell, Chime & Siren) can be heard. When selecting a location, take into consideration how the controller will be attached to a PC for easier programming and system maintenance.

#### ***To mount the controller:***

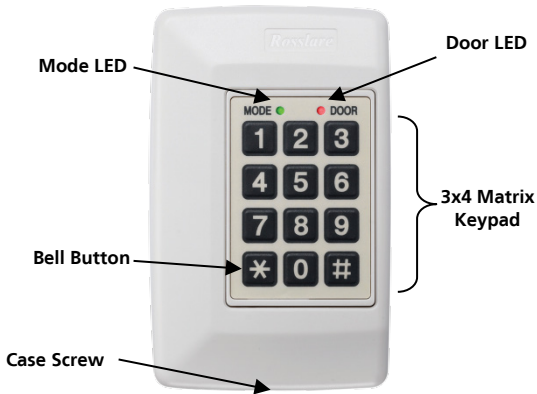


Note

If you are attaching the AC-015 to a US Gang Box, skip to Step 2.

1. Find the mounting template label that is provided in your AC-015 packaging, and place it at the location that you wish to install the controller. The template is designed to assist you through the mounting procedure, showing you where you drill holes in the wall to pass the wiring through and where the wall must be drilled to insert the controllers mounting screws.
2. Drill a hole for cables as indicated on the wiring template. Two hole sizes are shown to allow for the amount of cables needed, depending on installation requirements or adding a backup battery. Drill two screw holes for mounting the AC-015 to the wall.
3. Remove the case screw from the controller (see Figure 1) and remove the front case from the controller.

Figure 1: AC-015 Controller Layout



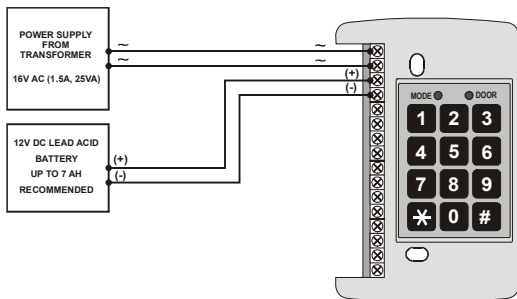
4. Mount the controller to the wall using the two screws provided in the Installation Kit or use the screws provided with your US Gang Box when mounting to a US Gang Box.
5. Wire the controller according to the diagrams on the next few pages.
6. Return and secure the front case using the security screw and security tool provided in the installation kit.

You now have mechanically installed the controller.

## 5. Wiring

The following figures show various wiring scenarios.

**Figure 2: Power Wiring**



**Figure 3: Typical Lock and Option Wiring**

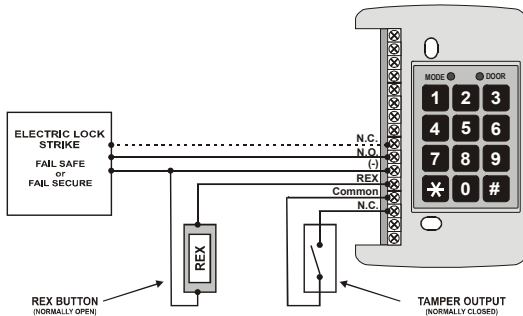




Figure 4: Reader Wiring

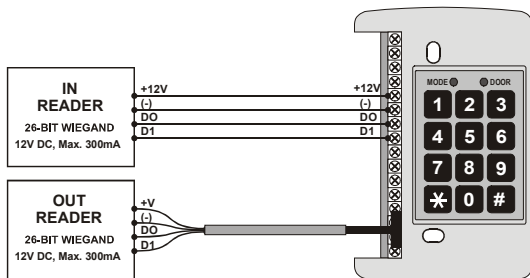
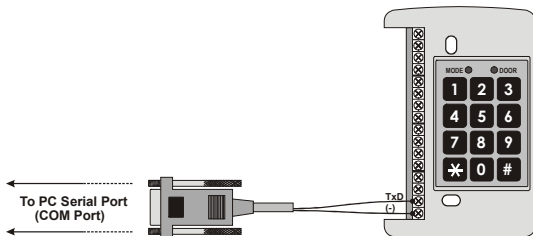


Figure 5: Connecting a Controller to a PC



# 6. Modes of Operation

The AC-015 has three modes of operation:

- Normal Mode
- Bypass Mode
- Secure Mode

The three modes provide different levels of security.

## 6.1 Normal Mode

The Mode LED is green.



- In this mode, the controller is in the normal level of security. Only those codes that the controller recognizes activate the Lock Strike.
- The controller's keypad is used for programming, changing modes of operation, and activating the Lock Strike using the employee codes.
- The Lock Strike remains active according to the programmed Release Time.
- In addition, it is possible to activate the Lock Strike in the following ways:
  - Pressing the REX button
  - Entering a valid code (from an outside reader only using a proximity code or a PIN code)

## 6.2 Bypass Mode

The Mode LED is orange.

Mode   Door  
Orange

- In this mode the controller is in the lowest level of security.
- The Controller's keypad is used for changing modes of operation and activating the Lock Strike by the employee codes or by pressing \*.
- The Lock Strike remains active according to the programmed Release Time.
- If the Lock Strike is defined as Normally Closed, it is always active. If the Lock Strike is defined as Normally Open, it can be activated in the following ways:
  - Pressing the REX button
  - Entering a valid code (from an outside reader only using a proximity code or a PIN code)

## 6.3 Secure Mode

The Mode LED is red.

Mode   Door  
Red

- In this mode, the controller is in the highest level of security.
- The controller's keypad is used for changing modes of operation and activating the Lock Strike by the employee codes.
- The Lock Strike remains active according to the programmed Release Time.
- In addition, it is possible to activate the Lock Strike in the following ways:
  - Pressing the REX button
  - Entering Master codes (from an outside reader only using a proximity code or a PIN code)

# 7. Changing the Modes of Operation

## 7.1 Changing from Normal to Secure Mode

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

*To change from Normal mode to Secure mode:*

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

Mode LED flashes red.



2. Press # to confirm the mode change.

The Mode LED turns red.



## 7.2 Changing from Secure Mode to Normal Mode

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

*To change from Secure mode to Normal mode:*

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

Mode LED flashes green.



2. Press # to confirm the mode change.

The Mode LED turns green.



## 7.3 Changing from Normal Mode to Bypass Mode

See Section 10.7 to create/modify the Normal/Bypass code.

*To change from Normal mode to Bypass mode:*

1. Enter the 4 digit Normal/Bypass code.

Mode LED flashes orange.

Mode   Door

Green

Mode   Door

Orange

2. Press # to confirm the mode change.

Mode LED turns orange.

Mode   Door

Orange

## 7.4 Changing from Bypass Mode to Normal Mode

See Section 10.7 to create/modify the Normal/Bypass code.

*To change from Bypass mode to Normal mode:*

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

Mode LED flashes green.

Mode   Door

Orange

Mode   Door

Green

2. Press # to confirm the mode change.

The Mode LED turns green.

Mode   Door

Green

# 8. Events and Event Actions

## 8.1 Tamper Event

A tamper event caused the AC-015 tamper output to open and alarm sound generated (if enabled). A tamper event may occur due to several reasons:

- AC-015 cover is removed or broken.
- A reader sensor wire is disconnected from the AC-015 reader input terminal.
- A tamper data signal is received from one of the reader sensors.

## 8.2 Clearing Tamper Events

To clear a tamper event, enter a valid employee or Lock Strike code that opens the door locker output at that instance. For example, during Secured status, entering Lock Strike Code 1 from the external reader does not clear the tamper alarm because it is not permitted to open the door at this status. However, applying the same code from the internal reader does clear the tamper output.

## 9. REX Button

The REX button must be located inside the premises to be secured and is used to open the door without the use of a proximity card or PIN code. 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 Fail Secure Operation.

- **Fail Secure Operation:** From the moment the REX button is pressed, the door is unlocked until the Lock Strike Release Time has passed. 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 is unlocked until the REX button is released, plus the Lock Strike Release Time. In this case, the Lock Strike Relay only begins its count down once the REX button is released. When a door is opened with a REX button, no chime sound is generated.

# 10. Programming Instructions

Most of the AC-015 features can be programmed via the programming keypad. This chapter describes how to program the AC-015 using the programming keypad.

Table 1 shows the names of all the AC-015 menus. It also shows of all the AC-015's default factory codes and settings.

**Table 1: Programming Menu Quick Reference Guide**

<b>Menu Number</b>	<b>Menu Description</b>	<b>Initial Setting</b>	<b>Section</b>
1	Changing Lock Strike Code 1	2580	10.3
2	Changing Lock Strike Code 2	0000*	10.4
3	Changing Program Code	1234	10.5
4	Changing Normal/Secure Code	3838	10.6
5	Changing Normal/Bypass Code	0000*	10.7
6	Changing Door Release Time	0004	10.8
	Choosing Fail Secure/Fail Safe Operation	(4-second) Fail Secure	10.8
7	Enrolling Proximity Cards or Keyboard Codes		10.9
8	Deleting Proximity Cards or Keyboard Codes		10.10
0	Returning to Default Factory Setting	000	10.11

\*0000 deletes a function



You must be in Normal mode to program the AC-015. The Mode LED is green. Wrong or timed out entries reset the controller to the Normal mode condition.

To exit programming, press # for two seconds. Three beeps are generated and the system returns to Normal mode. A short press on # also returns the system to Normal mode, and a long beep is heard. This aborts the programming, but in some cases, such as Program Function #7, data may have already been programmed.

Wrong entries during programming may also abort programming, along with long beep generation.

All programming operations are done either from the onboard keyboard or from the external reader. Programming proximity employee codes requires using a proximity reader and proximity cards.

## 10.1 Entering Programming Mode

To begin programming the controller's settings, the AC-015 must first place into Programming mode. You may only enter Programming mode from Normal mode; the controller does not permit entry to Programming mode if the controller is in Bypass and Secure modes.

The factory default Programming code is 1234.

### *To enter Programming mode:*

1. Press # for 2 seconds.

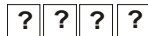
You hear a short beep.

The Mode LED turns off.

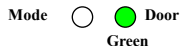
The Door LED turns red.



2. Enter the 4-digit Programming code.



If the Programming code is valid, the door LED turns green and the AC-015 enters Programming mode.



If the Programming code is NOT valid, the controller emits a loud beep and does NOT enter Programming mode.

### 10.2 Exiting Programming Mode

*To exit the Programming mode at any time:*

1. Press **#** for 2 seconds.
  - You hear 3 beeps.
  - The Door LED turns off.
  - The Mode LED turns green.
- Wrong entries may reset the controller back to Normal Operating Mode.
- While in Programming mode, if no key is pressed for 30 seconds the AC-015 emits a long beep and returns to Normal mode.
- A short press on **#** may also return the controller to Normal mode, accompanied by a long beep.



### 10.3 Changing Lock Strike Code 1

The Lock Strike code 1 is mainly used as a method to quickly test the Lock Strike Relay during installation.

The default factory setting for the Lock Strike Code 1 is 2580. When the first user is added to the controller, the default Lock Strike Code 1 is automatically be deleted and the system is ready for a new Lock Strike Code 1 to be re-entered.

*To change Lock Strike Code 1:*

1. Enter Programming mode.



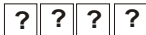
2. Press **1**.

The Door LED remains green.

The Mode LED turns red.



- Enter the new 4-digit code you wish to set as Lock Strike Code 1.



You hear three beeps.

The system returns to Normal mode.



## 10.4 Changing Lock Strike Code 2

The Lock Strike Code 2 is mainly used as a method to quickly test the Lock Strike Relay during installation.

There is no default code for Lock Strike Code 2.

### *To change Lock Strike Code 2:*

- Enter Programming mode.



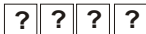
- Press **2**.

The Door LED remains green.

The Mode LED turns orange.

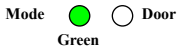


- Enter the new 4-digit code you wish to set as Lock Strike Code 1.



You hear three beeps.

The system returns to Normal mode.



## 10.5 Changing the Programming Code

### *To change the Programming code:*

- Enter Programming mode.



- Press **3**.

The Door LED remains green.

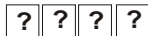
The Mode LED turns green.



## Programming Instructions

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- Enter the new 4-digit code you wish to set as the Programming code.



You hear three beeps.

The system returns to Normal mode.



Note

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

### 10.6 Changing the Normal/Secure Code

The default Secure code is **3838**.

*To change the Normal/Secure code:*

- Enter Programming mode.



- Press **4** to enter Menu 4.

The Mode indicator flashes red.



- Enter the new Normal/Secure code.

You hear three beeps.

The system returns to Normal mode.



### 10.7 Changing the Normal/Bypass Code

The Normal/Bypass code also controls the Chime function for the AC-015. You may set the code to 4 available options.

*To change the Normal/Bypass code:*

- Enter Programming mode.



- Press **5**.

The Mode indicator flashes orange.



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**.

0 0 0 0

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

0 0 0 1

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

? ? ? 0

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

? ? ? ~~0~~

You hear three beeps.

The system returns to Normal mode.

Mode  Door   
Green

## 10.8 Changing the Fail Safe and Fail Secure Operations, Alarm Sound Time, and Door Release Time

*To change the door release time:*

- Enter Programming mode.

Mode  Door   
Green

- Press **6** to enter Menu 6.

The Mode indicator flashes green.

Mode  Door   
Green Green

- Construct a code using the following instructions:

### First Digit

For fail secure operation, the first digit is set to **0**.

For failsafe operation, the first digit is set to **1**.

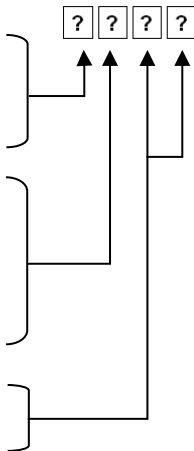
### Second Digit

If the Tamper Alarm is required, enter 1–9 as the second digit to set the alarm sound time from a minute to 9 minutes.

If the Tamper Alarm is not required, enter 0 as the second digit.

### Third and Fourth Digits

The number of seconds you wish the door release to remain activated. The default door open time is 4 seconds.



For example **0 5 1 2** means: fail secure with a 5-minute tamper alarm sound time and a 12-second door release.

You hear three beeps.

The system returns to Normal mode.

Mode  Green  Door

## 10.9 Enrolling Proximity Cards/Tags and Keyboard Codes into the System

Each proximity card is unique and can only be assigned to one slot at a time. If an unassigned proximity card is enrolled at an occupied slot, the AC-015 generates a long beep and waits for another slot number to be entered. The card at the current slot location must be erased before a new code is programmed on that slot number. The same rules apply for PIN-based employee codes.

## *To enroll proximity cards, tags, and keyboard codes:*

1. Enter Programming mode.



2. Press **7**.

The Mode LED turns green.

The Door LED turns orange.



3. Enter the 3-digit slot code you wish to assign to the employee (for example, 003 represents Slot 3).

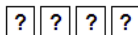


The Mode LED flashes green.



4. Perform one of the following:

- Enter the 4-digit PIN code designated for this slot number.
- Present the proximity card designated for this slot number to the reader.



If the PIN entered or user card presented 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 3) for the slot to which you want to assign a code.



If the code entered is already allocated to the slot number, you hear a long beep and the Mode LED continues to flash green.

5. Perform one of the following:

- Press **#** to move to the next slot number.
- If you do not wish to continue enrolling codes, press **#**. You hear a long beep and the controller returns to Normal mode.

If the programming period times out before you press #, the controller emits a long beep and returns to Normal mode. However, any enrolled employee codes in this period remains valid.

### 10.10 Deleting Proximity Codes



It is recommended that a record be kept of added and deleted users. This makes it easier to keep track of user slots' status (empty or not).

#### *To delete proximity codes:*

1. Enter Programming mode.

Mode   Door  
Green

2. Press **8**.

The Mode indicator turns red.

Mode   Door  
Red Orange

The Door indicator turns orange.

3. Enter the 3-digit user slot code to be deleted.

The Mode indicator flashes red, indicating the controller is waiting for a programming code to confirm the deletion.

Mode   Door  
Red Orange

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

4. Enter your 4-digit Programming code to confirm the deletion.

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

If the Programming code is invalid, a long beep is heard and the controller returns to Normal mode



## 10.11 Return to Factory Default Settings

*To return to factory default settings:*

1. Enter Programming mode.

Mode   Door  
Green

2. Press **0**.

The Door LED flashes red.

Mode   Door  
Red

3. Press **0** again.

The Mode LED flashes red.

Mode   Door  
Red Red

4. Enter your 4-digit Programming code to confirm.

This last step confirms that you intentionally want to delete all your initial settings and employees from the system.

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

## 10.12 Changing the Facility Code

*To change the Facility code:*

1. Enter Programming mode.

Mode   Door  
Green

2. Press **0**.

The Door LED flashes red.

Mode   Door  
Red

3. Press **1**.

The Mode LED flashes green.

Mode   Door  
Green Red

4. Enter the 3-digit Facility code (must be between 0–255).

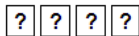


The Mode LED turns green.



If the wrong code is entered, the system exits Programming mode.

5. Enter your 4-digit Programming code to confirm.



This last step confirms that you intentionally want to delete all your initial settings and employees from the system.

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



Note

- Facility code 000 means that any proximity card can be learned, with any Facility code.
- It is recommended to program Facility code once before programming any employee codes. Changing the Facility code after codes are programmed causes previous codes with different Facility codes to disappear while still occupying the code slot number.
- If a Facility code is not 000, programming any proximity card with another Facility code is prohibited; however, PIN codes are not affected.

### 10.13 Replacing a Lost Programming Code

In the event that your Programming code is lost, complete the following procedure to enter Programming mode so that you may create a new Programming code.

The AC-015 must be in Normal mode; otherwise, this does not work. Make sure that the Mode LED is green before proceeding.

1. Disconnect power from the AC-015.
2. Press the REX button.

3. Reconnect power to the unit with the REX button pressed.
4. Release the REX button.
5. You now have 20 seconds to program a new Programming code into the controller using the initial default code (1234) before the controller reverts to the existing code.

### **10.14 Replacing Lost Normal/Secure Code**

In the event that your Normal or Secure code is lost and you are locked in Secure mode, perform the following procedure to re-enter Normal mode so that you may program a new Normal/Secure code.

The AC-015 must be in Secure mode or this procedure does not work.

Make sure that the Mode LED is red before proceeding.

1. Disconnect power from the AC-015.
2. Press the REX button.
3. Reconnect power to the unit with the REX button pressed.
4. Release the REX button.
5. You now have 20 seconds to enter the default Secure code (3838) to return the system to Normal mode.

### A. Limited Warranty

The full ROSSLARE Limited Warranty Statement is available in the Quick Links section on the ROSSLARE website at [www.rosslaresecurity.com](http://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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