AC-115

Compact Networked Single-Door Controller

Hardware Installation and Programming

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.

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- 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.
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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-115 is an advanced single-door controller, of which up to 8 units can be connected together along with a PC to form an 8-door, PC programmable network.

The AC-115 has been designed to be highly flexible, allowing it to be used in multiple applications. The controller is feature rich and provides the user valuable control over the door(s) attached to it.

When using the AC-115 as a standalone controller, it can be programmed using its own built-in programming keypad or by using the AC-115 PC software.

When using the AC-115 in a multi-controller network, the network of controllers can only be programmed using the AC-115 PC software.

The AC-115 has been tested by UL as a standalone system only. Connecting the AC-115 in a multi-controller network application was not verified by UL.

In this manual, you will learn how to easily install and program the AC-115 using the controller's built-in programming keypad.

Programming the AC-115 with a PC is even easier and unlocks features that are not accessible from the controller's programming keypad. Programming the AC-115 with a PC is covered in the provided *AC-115 Software Manual*.

It is recommended that the Hardware Manual be read first before the Software Manual, as key concepts are introduced in the Hardware Manual that are not covered in the Software Manual.

1.1 Key Features

- Networkable up to 8 doors (not tested by UL)
- RS485 PC Programming Interface
- Multi-language PC software
- Programmable PC software access rights
- Supports up to 2400 users
- Real-time system monitoring (not tested by UL)
- History of up to 2000 events
- Real-time clock
- 8 programmable access time zones
- 24 programmable holiday dates
- 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
- Door Monitor
- Forced Door and Door Ajar detection
- Internal siren
- Comes with security screw and security tool
- Two status/programming Interface LEDs
- Built-in programming keypad
- Backup real time clock battery
- Battery charger (not tested by UL)
- Built-in case tamper
- Bell, Chime, and Strobe annunciator
- Programmable Lock Strike and Auxiliary Relay 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

Operating Voltage	AC Input – Class 2 transformer model PTC1640U, 16.5 VAC, 40 VA
Maximum Input Current (not including attached devices)	Standby: 65 mA Maximum: 120 mA
Battery Charger	12 VDC Lead Acid Battery Up to 7 Ah recommended

2.1.2 Outputs

Lock Strike Relay Output	5 A Relay Max Load: 1.2 A
Lock Strike Power Supply	12 VDC constant voltage 1.2 A current limit
Auxiliary Relay Output	1 A Relay Closed to Ground Max Load: 1 A (AUX load and Lock Strike not to exceed 1.2 A)
Reader Power Supply	Voltage: 11~12 VDC Max current: 300 mA (for a combination of both In and Out Readers)

2.1.3 Inputs

REX	N.O. Dry Contact
Door Monitor	N.C. Dry Contact
Reader Input	Wiegand 26-Bit compatible

2.1.4 Indicators and Annunciators

Visual	Two tri-colored LEDs
Audio	Built-in sounder (bell, chime, and siren) Piezoelectric buzzer

2.2 Environmental Characteristics

Operating Temperature	-31°C to 63°C (-25°F to 145°F) 0 to 49°C for C-UL-US listed applications
Operating Humidity	0 to 95% (non-condensing) 0 to 85% (non-condensing) for C-UL-US listed applications

2.3 Mechanical Characteristics

Dimensions (L x W x D)	134 x 85 x 30 mm (5.3 x 3.4 x 1.2 in.) (fits US Gang Box)
Weight	220 g (0.5 lb)

3. Installation

The AC-115 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 the 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 (attaching the controller to a rechargeable Lead Acid battery was not tested by UL).

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

Wiring diagrams are also provided for attaching the controller to the REX button, door monitor switch, auxiliary output, and external Wiegand 26-Bit compatible readers. Also covered in this chapter is how to wire the AC-115 to a PC as a single unit and for use in a system of networked AC-115 units (wiring for use in a network was not tested by UL).

For C-UL Listed applications, the unit shall be installed in accordance with Part 1 of the Canadian Electrical Code.

3.1 Mounting the Controller

Before starting, select the location for mounting the AC-115 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 (doorbell, chime and 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.

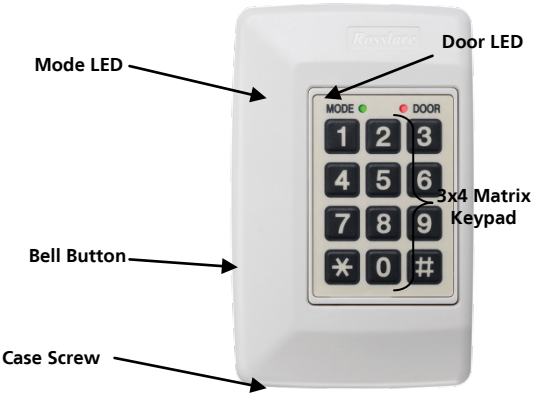
To mount the controller:

1. Find the mounting template label that is provided in the AC-115 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.

If you are attaching the AC-115 to a US Gang Box, skip to Step 3.

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-115 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-115 Controller Layout



4. Mount the controller to the wall using the two screws provided in the Installation Kit or use the screws provided with the US Gang Box when mounting to a US Gang Box.
5. Wire the controller according to Section 3.2.
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.

3.2 Wiring the Controller(s)

The following figures show various wiring scenarios.

Figure 2: Power Wiring

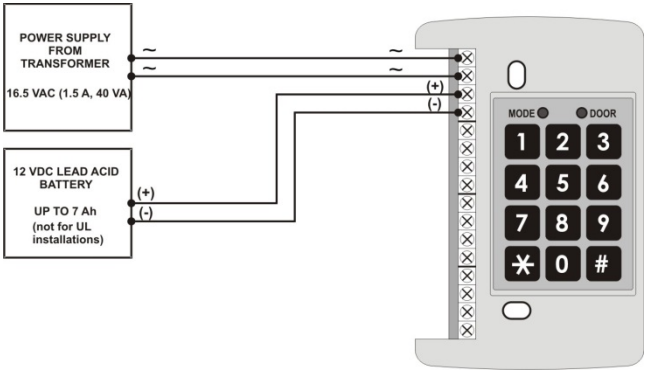
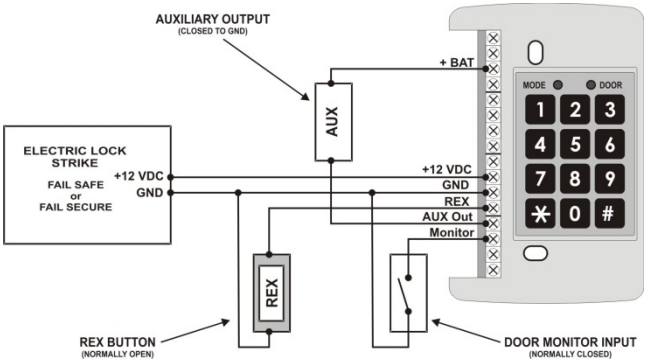


Figure 3: Typical Lock and Option Wiring



Note

For Fail Secure application, the listed panic hardware shall be used to allow emergency exit from the protected area.

Figure 4: Reader Wiring

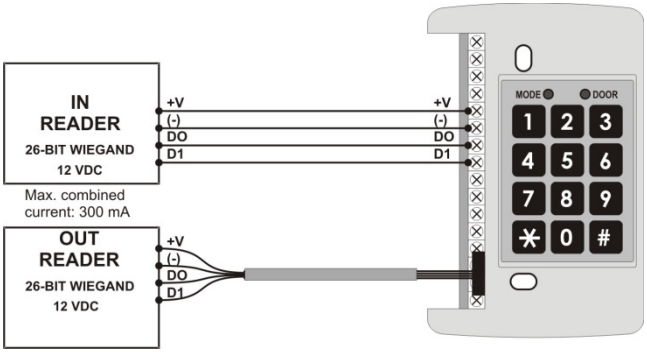
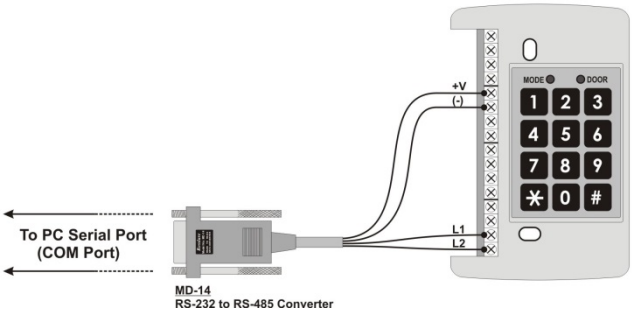


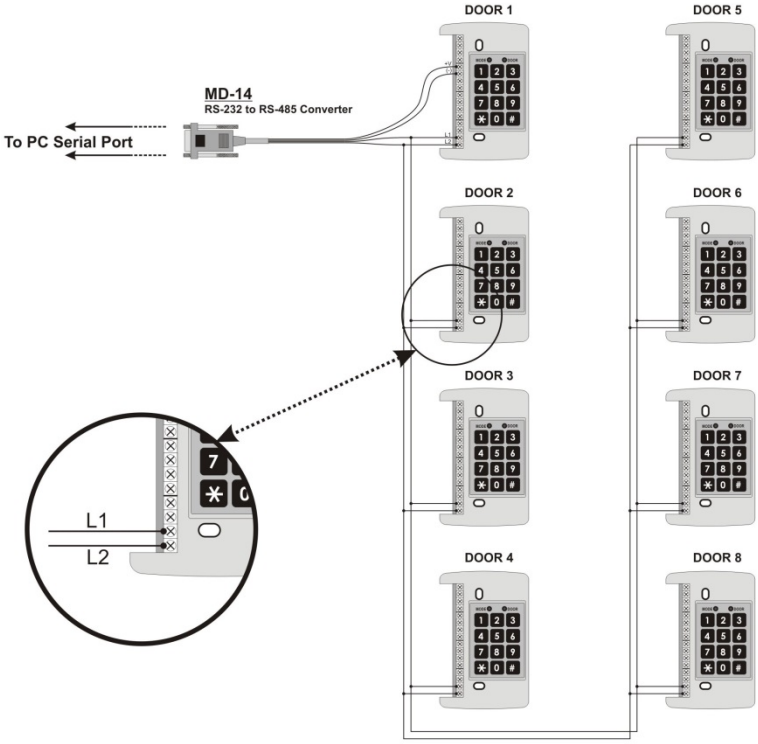
Figure 5: Connecting a Controller to a PC



Note

Connecting a controller to a PC was not tested by UL.

Figure 6: Connecting a System to a PC



At each end of the data line, both where the panel connects to the computer and on the last panel in the network, a termination resistor of 120 Ω may be required. Apply the resistor across the L1 and L2 connections.

These termination resistors are especially important in long cable runs.

4. Features and Concepts

In this chapter you will learn about all the features that are programmable without the use of the PC software. They are the basic features of the AC-115 and can be programmed directly from the controller's programming keypad.

You will learn about the controller's various modes of operation, how to switch between the Modes of Operation, Special Codes, Events and Event Actions.

The topics in this chapter are:

- Code Assignment (Lock Strike & Auxiliary)
- Modes of Operation
- Changing the Modes of Operation
- Events and Event Actions

4.1 Code Assignment (Lock Strike & Auxiliary)

Whenever an employee is added to an AC-115 from the controller's programming keypad or from a PC, the employee code is by default set to activate the Lock Strike Output when it is presented to a reader.

Each Employee Code can also be programmed to activate only the Auxiliary Output, as well as both the Lock Strike and Auxiliary Outputs at the same time.

Setting which output(s) are activated when a code is presented to a reader is called Code Assignment. See Table 1 in Chapter 5 for more details on Code Assignment.

4.2 Modes of Operation

The AC-115 has three modes of operation:

- Normal Mode
- Bypass Mode
- Secure Mode

4.2.1 Normal Mode

The Mode LED is green.

In Normal mode, both the In reader (the reader that is installed outside the premises) and the Out reader (the reader that is installed inside the premises) are functioning. The controller's programming keypad and the REX button are also functioning.

When a valid code is entered at the In reader, the controller first checks if the employee is attempting entry during a permitted time zone before activating the Lock Strike Output and/or the Auxiliary Output. When a valid code is entered at the Out Reader or the programming keypad, the Lock Strike Output and/or the Auxiliary Output opens without checking time zones.

If the Employee Code is Code Assigned to the Lock Strike Output, the Lock Strike Output activates and remains active until the Lock Strike Release Time passes or the door monitor detects that the door has been opened.

If the Employee Code is Code Assigned to the Auxiliary Output, the Auxiliary Output activates and remains active until the Auxiliary Release Time passes or toggle if the Auxiliary Release Time is set to zero.

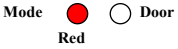
4.2.2 Bypass Mode

In Bypass mode, if the Lock Strike Output is set to Normally Closed, the Lock Strike Output is constantly active and the Mode LED is orange and the Door LED is green.

If the Lock Strike Output is set to Normally Open, pressing the REX or the bell button, entering a Lock Strike, Auxiliary, or Valid Code can be used to activate the Lock Strike Output and/or the Auxiliary Output, without checking any time zones. The mode LED is orange

4.2.3 Secure Mode

The Mode LED is red.



In Secure mode, the OUT reader (the reader that is installed inside the premises) is the only functioning reader. The IN reader (the reader that is installed outside the premises) only accepts the Duress code. The REX button functions normally.

The controller's programming keypad is also functioning, allowing the entry of Employee codes, Duress code, Lock Strike code, and Auxiliary code.

While in Secure mode, the controller cannot be programmed from the controller's programming keypad. The controller can only be programmed using the PC interface.

4.3 Changing the Modes of Operation

4.3.1 Changing from Normal to Secure Mode

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

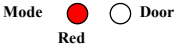
To change from Normal mode to Secure mode:

1. The controller is in Normal mode.

2. Enter the Normal/Secure code to one of the external readers or enter the Normal/Secure PIN code at the controllers programming keypad.

   If the Normal/Secure PIN code is less than 6-digits long, do not forget to press **#** to confirm the entry after entering the Normal/Secure PIN code.

   The Mode LED turns red.

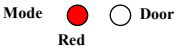


4.3.2 Changing from Secure Mode to Normal Mode

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

To change from Secure mode to Normal mode:

1. The controller is in Secure mode.



2. Present the Normal/Secure code to one of the external readers or enter the Normal/Secure PIN code at the controllers programming keypad.

   If the Normal/Secure PIN code is less than 6-digits long, do not forget to press **#** to confirm the entry after entering the Normal/Secure PIN code.

   The Mode LED turns green.

4.3.3 Changing from Normal Mode to Bypass Mode

See Section 5.11 to create/modify the Normal/Bypass code.

1. The controller is in Normal mode.

2. Present the Normal/Bypass code to one of the external readers or enter the Normal/Bypass PIN code at the controllers programming keypad.

   If the Normal/Bypass PIN code is less than 6-digits long, do not forget to press **#** to confirm the entry after entering the Normal/Bypass PIN code.

   The Mode LED turns orange.

4.3.4 Changing from Bypass Mode to Normal Mode

See Section 5.11 to create/modify the Normal/Bypass code.

To change from Bypass mode to Normal mode:

1. The controller is in Bypass mode.

2. Present the Normal/Bypass code to one of the external readers or enter the Normal/Bypass PIN code at the controllers programming keypad.

   If the Normal/Bypass PIN code is less than 6-digits long, do not forget to press **#** to confirm the entry after entering the Normal/Bypass PIN code.

   The Mode LED turns green.

4.4 Events and Event Actions

All of the AC-115's key features are triggered by some events. For instance, placing a valid code at the reader at the right time is an event, and the valid code event may trigger the Lock Strike Output to activate an event action.

In this section, you will learn about the AC-115's events and the event actions those events cause.

4.4.1 Monitor Event

The Monitor Event is triggered when the Door Monitor Switch has been activated, meaning the door has been opened.

Possible Monitor Event Actions

- Chime Alert
- Door Ajar Event if door is not closed in time
- Forced Door Event if valid code was not entered

4.4.2 Door Ajar Event

A Door Ajar Event occurs when the Door Monitor Switch has been activated with a Valid Code being entered and the door is left open longer than the Ajar Delay Time.

Possible Ajar Door Event Actions

- Siren Event (Programmable Siren Time)
- Auxiliary Output Activation (Programmable Auxiliary Release Time)

4.4.3 Forced Door Event

A door is considered forced open when the Door Monitor Switch has been activated without a Valid Code being entered. When this occurs, a Forced Door Delay Time counts down. When the count is done, the Forced Door Event occurs.

Possible Forced Door Event Actions

- Siren Event (Programmable Siren Time)
- Auxiliary Output Activation (Programmable Auxiliary Release Time)

4.4.4 Duress Event

The Duress Event is triggered when a Duress code is entered using one of the two readers or via the controller's programming keypad.

The Duress feature was not investigated by UL for Holdup or Burglar alarm systems.

Possible Duress Event Actions

- Siren Event (Programmable Siren Time)
- Auxiliary Output Activation (Programmable Auxiliary Release Time)

4.4.5 Tamper Event

A Tamper Event is triggered if the controller detects that a reader has been disconnected or loses power. It can also be triggered if the case of the controller is removed.

Possible Tamper Event Actions

- Siren Event (Programmable Siren Time)
- Auxiliary Output Activation (Programmable Auxiliary Release Time)

4.4.6 Lock Strike Code Event

A Lock Strike Code Event occurs when the Lock Strike Code is entered using one of the two readers or via the controller's programming keypad.

Possible Lock Strike Code Event Actions

- Lock Strike Output Activation (Programmable Lock Strike Release Time)

4.4.7 Auxiliary Code Event

An Auxiliary Code Event occurs when the Auxiliary Code is entered using one of the two readers or via the controller's programming keypad.

Possible Auxiliary Code Event Actions

- Auxiliary Output Activation (Programmable Auxiliary Release Time)

4.4.8 REX Event

The REX Event is triggered whenever the REX button is pressed.

Possible REX Event Actions

- Lock Strike Output Activation (Programmable Lock Strike Release Time)
- Auxiliary Output Activation (Programmable Auxiliary Release Time)

4.4.9 Valid Employee Code Event

The Valid Employee Code Event is triggered when a Valid Employee Code is entered using one of the two readers or via the controllers programming keypad.

Possible Valid Employee Code Event Actions

- Chime Alert
- Lock Strike Output Activation (Programmable Lock Strike Release Time)
- Auxiliary Output Activation (Programmable Auxiliary Release Time)

5. Programming Instructions

Most of the AC-115 features can be programmed via the programming keypad. This chapter describes how to program the AC-115 using the programming keypad.

Table 1 shows the names of all the AC-115 menus. It also shows of all the AC-115's default factory codes and settings.

Table 1: Programming Menu Quick Reference Guide

Menu Number	Menu Description	Section Number
0 0	Return to Factory Default Settings	5.3
1 0	Deleting All Employee Codes	5.4
1 1	Adding an Employee Code	5.5
1 2	Lock Strike Relay and Auxiliary Relay Code Assignment	5.6
1 9	Deleting an Employee Code	5.7
2 0	Resetting all Special Codes to Factory Default Settings	5.8
2 1	Changing the Programming Code	5.9
2 2	Changing the Normal / Secure Code	5.10
2 3	Changing the Duress Code	5.11
2 4	Changing the Lock Strike Code	5.12
2 5	Changing the Auxiliary Code	5.13
2 6	Changing the Normal / Bypass Code	5.14
3 0	Resetting all Timed Events and Output Settings to Factory Default Settings	5.15
3 1	Setting up the Lock Strike Release Time and Output Settings	5.16
3 2	Setting up the Door Ajar Time	5.17
3 3	Setting up the Forced Door Time	5.18
3 4	Setting up the Siren Time	5.19
3 5	Setting up the Auxiliary Release Time and Output Settings	5.20
4 0	Resetting all Event Actions to Factory Default Settings	5.21
4 1	Setting up the Door Ajar Event Actions	5.22
4 2	Setting up the Forced Door Event Actions	5.23
4 3	Setting up the Tamper Event Actions	5.24
4 4	Setting up the Duress Event Actions	5.25
4 5	Setting up the Release to Exit (REX) Event Actions	5.26
4 6	Setting up the Chime Alert Event Action	5.27
5 1	Setting up the Real Time Clock (RTC) - Year	5.28
5 2	Setting up the Real Time Clock (RTC) – Date	5.29

Menu Number	Menu Description	Section Number
5 3	Setting up the Real Time Clock (RTC) - Time	5.30
6 1	Changing the Door Number	5.31

5.1 Entering Programming Mode

To begin programming the controller's settings, the AC-115 must first place into Programming mode. You may only enter Programming mode from Normal and Bypass modes; the controller does not permit entry to Programming mode if the controller is in Secure mode.

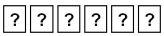
The factory default Programming Code is 1234.

To enter Programming mode:

1. Press **#** for 2 seconds.

   The Mode LED flashes orange.

2. Present the Programming code to one of the attached readers or enter a 1- to 6-digit PIN Code.



   If the Programming PIN Code is less than 6-digits long, do not forget to press **#** to confirm the entry after entering the new Programming code.

   If the Programming code is valid, the Mode LED stops flashing and the controller enters Programming mode.

   If the Programming code is NOT valid, the controller does NOT enter Programming mode.

5.2 Exiting Programming Mode

To exit the Programming mode (at any time):

1. Press **#** for 2 seconds.

   You hear a long beep and the controller returns to its previous operating mode.

- Wrong entries may reset the controller back to its previous operating Mode.
- While in Programming mode, if no key is pressed for 15 seconds, the AC-115 exits Programming mode and returns to its previous operating mode.
- A short press on **#** may also return the controller to its previous operating mode.

5.3 Return to Factory Default Settings

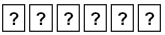
To return to factory default settings:

1. Enter the Programming mode.

2. Press **00** to enter Menu 00.

The Mode LED flashes red and the Door LED flashes red.

3. Enter the Programming code to confirm.



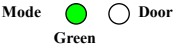
If the Programming code is less than 6-digits long, do not forget to press **#** to confirm the entry after entering the Programming code.

If the Programming code is entered correctly, the controller is reset back to its factory default setting. The controller exits Programming mode and returns to Normal mode.

- You hear a short beep.
- The Mode LED turns green.
- The Door LED goes out.

If the Programming code is entered incorrectly, the controller is NOT reset back to its factory default setting. The controller exits Programming mode and returns to Normal mode.

- You hear a long beep.
- The Mode LED turns green.
- The Door LED goes out.



Using this command does not reset the AC-115's Door Number. The Door Number remains unchanged after the controller is reset.

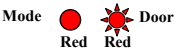
5.4 Deleting All Employee Codes

To delete all employee codes:

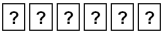
1. Enter the Programming mode.

2. Press **10** to enter Menu 10.

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



3. Enter the Programming code to confirm.



If the Programming code is less than 6-digits long, do not forget to press **#** to confirm the entry after entering the Programming code.

If the Programming code is entered correctly, all employee codes are deleted. The controller exits Programming mode and returns to Normal mode.

- You hear a short beep.
- The Mode LED turns green.
- The Door LED goes out.

If the Programming code is entered incorrectly, all employee codes are NOT deleted. The controller exits Programming mode and returns to Normal mode.

- You hear a long beep.
- The Mode LED turns green.
- The Door LED goes out.

5.5 Adding an Employee Code

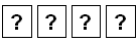
To add an employee code:

1. Enter the Programming mode.

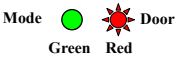
2. Press **11** to enter Menu 11.

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

3. Enter the 4-digit Employee Slot Code you wish to add.



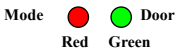
   The Door LED flashes green, indicating that controller is ready to learn the employee's proximity card or PIN code.



4. Present a proximity card to one of the attached readers or enter a 1- to 6-digit PIN code.

   If the Programming code is less than 6-digits long, do not forget to press **#** to confirm the entry after entering the Programming code.

   If the proximity card or PIN is valid, the Mode LED stops flashing.



5. Enter the next 4-digit Employee Slot Code or press **#** to move to the next slot number.

6. If you do not wish to continue enrolling codes, press **#** for 2 seconds and the controller returns to Normal mode.

5.6 Lock Strike Relay and Auxiliary Relay Code Assignment

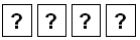
To assign a lock strike relay and Auxiliary Relay code:

1. Enter the Programming mode.

2. Press **12** to enter Menu 12.

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

3. Enter the 4-digit employee slot code that you wish to assign a code to.



The Door LED turns orange.

4. Enter your 2-digit assignment code

- **N1** – First digit determines if the Lock Strike Relay is activated or not
  "1" = Lock Strike Activated
  "0" = Lock Strike Not Activated
- **N2** – Second digit determines if the Auxiliary Relay is activated or not
  "1" = Auxiliary Relay Activated
  "0" = Auxiliary Relay Not Activated

If the 2-digit assignment code is correct, the controller waits for a new employee number that you wish to assign a code to.

5. To continue enrolling new employees, press **#** to increment to the next Employee Slot Code or enter a new slot number.

If you do not wish to continue enrolling codes, press **#** for 2 seconds and the controller returns to Normal mode.

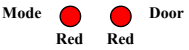
5.7 Deleting an Employee Code

To add an employee code:

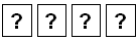
1. Enter the Programming mode.

2. Press **19** to enter Menu 19.

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



3. Enter the 4-digit Employee Slot Code you wish to delete.



The Door LED flashes red.

4. Enter the Programming code to confirm. [?][?][?][?][?][?]

   If the Programming code is less than 6-digits long, do not forget to press **#** to confirm the entry after entering the Programming code.

   If the Programming code is correct, the employee code is deleted and the controller returns to Normal mode.

   - You hear a short beep.
   - The Mode LED turns green.
   - The Door LED goes out.

   If the Programming code is not correct, the employee code is NOT deleted. The controller exits Programming mode and returns to Normal mode.

   - You hear a long beep.
   - The Mode LED turns green.
   - The Door LED goes out.

5.8 Resetting all Special Codes to Factory Default Settings

To reset all special codes to factory default settings:

1. Enter the Programming mode.

2. Press **20** to enter Menu 20. [2][0]

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

3. Enter the Programming code to confirm. [?][?][?][?][?][?]

   If the Programming code is less than 6-digits long, do not forget to press **#** to confirm the entry after entering the Programming code.

   If the Programming code is entered correctly, the special codes are reset to factory default settings. The controller exits Programming mode and returns to Normal mode.

   - You hear a short beep.
   - The Mode LED turns green.
   - The Door LED goes out.

If the Programming code is entered incorrectly, the special codes are NOT reset to factory default settings. The controller exits Programming mode and returns to Normal mode.

- You hear a long beep.
- The Mode LED turns green.
- The Door LED goes out.

5.9 Changing the Programming Code

The default Programming code is 1234.

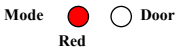
Programming codes made of all zeros such as "0", "00", ..., "000000" are not valid Programming codes and are not accepted by the controller

To change the Programming code:

1. Enter the Programming mode.

2. Press **21** to enter Menu 21.

   The Mode LED turns red.



3. Present a proximity card to one of the attached readers or enter a 1- to 6-digit PIN code.

   If the Programming code is less than 6-digits long, do not forget to press **#** to confirm the entry after entering the Programming code.

   If the new Programming code is unique, the Programming code is updated and the controller returns to Programming mode.

   - You hear a short beep.
   - The Mode LED turns orange.

   If the new Programming code is NOT unique, the Programming code is NOT updated and the controller exits Programming mode and returns to Normal mode.

   - You hear a long beep.
   - The Mode LED turns green.

5.10 Changing the Normal/Secure Code

The default Secure code is 3838.

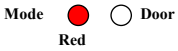
Normal/Secure codes made of all zeros such as "0", "00", ..., "000000" disable switching between Normal and Secure modes and vice versa.

To change the Normal/Secure code:

1. Enter the Programming mode.

2. Press **22** to enter Menu 22.

   The Mode LED turns red.



3. Present a proximity card to one of the attached readers or enter a 1- to 6-digit PIN code.

   If the Normal/Secure PIN code is less than 6-digits long, do not forget to press **#** to confirm the entry after entering the PIN code.

   If the new Normal/Secure code is unique, the Normal/Secure code is updated and the controller returns to Programming mode.

   - You hear a short beep.
   - The Mode LED turns orange.

   If the new Normal/Secure code is NOT unique, the Normal/Secure code is NOT updated and the controller exits Programming mode and returns to Normal mode.

   - You hear a long beep.
   - The Mode LED turns green.

5.11 Changing the Duress Code

There is no factory default Duress code.

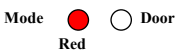
Duress codes made of all zeros such as "0", "00", ..., "000000" disable the Duress event.

To change the Duress code:

1. Enter the Programming mode.

2. Press **23** to enter Menu 23.

   The Mode LED turns red.



3. Present a proximity card to one of the attached readers or enter a 1- to 6-digit PIN code.

   If the Duress code is less than 6-digits long, do not forget to press **#** to confirm the entry after entering the PIN code.

   If the new Duress code is unique, the Duress code is updated and the controller returns to Programming mode.

   - You hear a short beep.
   - The Mode LED turns orange.

   If the new Duress code is NOT unique, the Duress code is NOT updated and the controller exits Programming mode and returns to Normal mode.

   - You hear a long beep.
   - The Mode LED turns green.

5.12 Changing the Lock Strike Code

The factory default Lock Strike Code is 2580.

Lock Strike codes made of all zeros such as "0", "00", ... , "000000" disable the Lock Strike Code event.

To change the Lock Strike code:

1. Enter the Programming mode.

2. Press **24** to enter Menu 24.

   The Mode LED turns red.

3. Present a proximity card to one of the attached readers or enter a 1- to 6-digit PIN code.

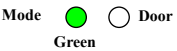
   If the Lock Strike code is less than 6-digits long, do not forget to press **#** to confirm the entry after entering the PIN code.

   If the new Lock Strike code is unique, the Lock Strike code is updated and the controller returns to Programming mode.

   - You hear a short beep.
   - The Mode LED turns orange.

   If the new Lock Strike code is NOT unique, the Lock Strike code is NOT updated and the controller exits Programming mode and returns to Normal mode.

   - You hear a long beep.
   - The Mode LED turns green.



5.13 Changing the Auxiliary Code

There is no factory default Auxiliary code.

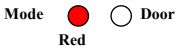
Auxiliary codes made of all zeros such as "0", "00", ... , "000000" disable the Auxiliary Code event.

To change the Auxiliary code:

1. Enter the Programming mode.

2. Press **25** to enter Menu 25.

   The Mode LED turns red.



3. Present a proximity card to one of the attached readers or enter a 1- to 6-digit PIN code.

   If the Auxiliary PIN code is less than 6-digits long, do not forget to press **#** to confirm the entry after entering the PIN code.

   If the new Auxiliary code is unique, the Auxiliary code is updated and the controller returns to Programming mode.

   - You hear a short beep.
   - The Mode LED turns orange.

   If the new Auxiliary code is NOT unique, the Auxiliary code is NOT updated and the controller exits Programming mode and returns to Normal mode.

   - You hear a long beep.
   - The Mode LED turns green.

5.14 Changing the Normal/Bypass Code

There is no factory default Normal/Bypass code.

Normal/Bypass codes made of all zeros such as "0", "00", ..., "000000" disable switching between Normal and Bypass modes and vice versa.

To change the Normal/Bypass code:

1. Enter the Programming mode.

2. Press **26** to enter Menu 26.

   The Mode LED turns red.

3. Present a proximity card to one of the attached readers or enter a 1- to 6-digit PIN code.

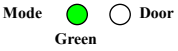
   If the Normal/Bypass PIN code is less than 6-digits long, do not forget to press **#** to confirm the entry after entering the PIN code.

   If the new Normal/Bypass code is unique, the Normal/Bypass code is updated and the controller returns to Programming mode.

   - You hear a short beep.
   - The Mode LED turns orange.

   If the new Normal/Bypass code is NOT unique, the Normal/Bypass code is NOT updated and the controller exits Programming mode and returns to Normal mode.

   - You hear a long beep.
   - The Mode LED turns green.



5.15 Resetting all Timed Events and Output Settings to Factory Default Settings

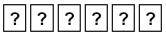
To reset all timed events and output settings to factory default settings:

1. Enter the Programming mode.

2. Press **30** to enter Menu 30.

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

3. Enter the Programming code to confirm.



4. If the Programming PIN Code is less than 6-digits long, do not forget to press **#** to confirm the entry after entering the new Programming code.

   If the Programming code is entered correctly, Timed Events and Output settings are reset to factory default settings. The controller exits Programming mode and enters Normal mode.

   - You hear a short beep.
   - The Mode LED turns green.
   - The Door LED goes out.

If the Programming code is entered incorrectly, the Timed Events and Output settings are NOT reset to factory default settings. The controller exits Programming mode and returns to Normal mode.

- You hear a long beep.
- The Mode LED turns green.
- The Door LED goes out.

5.16 Setting up the Lock Strike Release Time and Output Settings

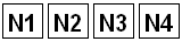
To set up the Lock Strike Release Time and Output settings:

1. Enter the Programming mode.

2. Press **31** to enter Menu 31.

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

3. Create and enter the 4-digit settings code.



- **N1** – Determines if the Lock Strike Relay is Normally Open or Normally Closed
  - Enter **1** for Normally Closed
  - Enter **0** for Normally Open
- **N2** – Lock Strike Release Time must be between 0 to 9 minutes
- **N3** and **N4** – Lock Strike Release Time must be between 00 to 59 seconds

If the 4-digit settings code is entered correctly, the settings are updated and the controller returns to Programming mode.

The Mode LED turns orange.

If the 4-digit settings code is entered incorrectly, the settings are NOT updated. The controller exits Programming mode and returns to Normal mode.

- You hear a long beep.
- The Mode LED turns green.

5.17 Setting up the Door Ajar Time

A Door Ajar time of 0:00 disables the Door Ajar event.

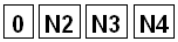
To set up the Door Ajar Time:

1. Enter the Programming mode.

2. Press **32** to enter Menu 32.

The Mode LED turns red.

3. Create and enter the 4-digit settings code.



- **0** – First digit is always 0
- **N2** – Ajar Time must be between 0 to 9 minutes
- **N3** and **N4** – Ajar Time must be between 00 to 59 seconds

If the 4-digit settings code is entered correctly, the settings are updated and the controller returns to Programming mode.

The Mode LED turns orange.

If the 4-digit settings code is entered incorrectly, the settings are NOT updated. The controller exits Programming mode and returns to Normal mode.

- You hear a long beep.
- The Mode LED turns green.

5.18 Setting up the Forced Door Time

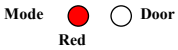
A Forced Door time of 0:00 disables the Forced Door event.

To set up the Forced Door Time:

1. Enter the Programming mode.

2. Press **33** to enter Menu 33.

The Mode LED turns red.



3. Create and enter the 4-digit settings code. 0 N2 N3 N4

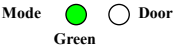
   - **0** – First digit is always 0
   - **N2** – Forced Door Time must be between 0 to 9 minutes
   - **N3** and **N4** – Forced Door Time must be between 00 to 59 seconds

   If the 4-digit settings code is entered correctly, the settings are updated and the controller returns to Programming mode.

   The Mode LED turns orange.

   If the 4-digit settings code is entered incorrectly, the settings are NOT updated. The controller exits Programming mode and returns to Normal mode.

   - You hear a long beep.
   - The Mode LED turns green.



5.19 Setting up the Siren Time

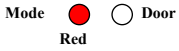
A Siren Time of 0:00 disables the Forced Door Event.

To set up the Siren Time:

1. Enter the Programming mode.

2. Press **34** to enter Menu 34. 3 4

   The Mode LED turns red.



3. Create and enter the 4-digit settings code. 0 N2 N3 N4

   - **0** – First digit is always 0
   - **N2** – Siren Time must be between 0 to 9 minutes
   - **N3** and **N4** – Siren Time must be between 00 to 59 seconds

   If the 4-digit settings code is entered correctly, the settings are updated and the controller returns to Programming mode.

   The Mode LED turns orange.

   If the 4-digit settings code is entered incorrectly, the settings are NOT updated. The controller exits Programming mode and returns to Normal mode.

   - You hear a long beep.
   - The Mode LED turns green.

5.20 Setting up the Auxiliary Release Time and Output Settings

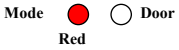
An Auxiliary time of 0:00 sets the Auxiliary Output to Toggle mode.

To set up the Auxiliary Release Time and Output Settings:

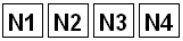
1. Enter the Programming mode.

2. Press **35** to enter Menu 35.

   The Mode LED turns red.



3. Create and enter the 4-digit settings code.



   - **N1** – Determines if the auxiliary relay is Normally Open or Normally Closed
     - Enter **1** for Normally Closed
     - Enter **0** for Normally Open
   - **N2** – Auxiliary Release Time must be between 0 to 9 minutes
   - **N3** and **N4** – Auxiliary Release Time must be between 00 to 59 seconds

   If the 4-digit settings code is entered correctly, the settings are updated and the controller returns to Programming mode.

   The Mode LED turns orange.

   If the 4-digit settings code is entered incorrectly, the settings are NOT updated. The controller exits Programming mode and returns to Normal mode.

   - You hear a long beep.
   - The Mode LED turns green.

5.21 Resetting all Event Actions to Factory Default Settings

To reset all event actions to factory default settings:

1. Enter the Programming mode.

2. Press **40** to enter Menu 40.

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

3. Enter the Programming code to confirm. [?][?][?][?][?][?]

   If the Programming code is less than 6-digits long, do not forget to press **#** to confirm the entry after entering the Programming code.

   If the Programming code is entered correctly, the Event Actions are reset to factory default settings. The controller exits Programming mode and returns to Normal mode.

   - You hear a short beep.
   - The Mode LED turns green.
   - The Door LED goes out.

   If the Programming code is entered incorrectly, the Event Actions are NOT reset to factory default settings. The controller exits Programming mode and returns to Normal mode.

   - You hear a long beep.
   - The Mode LED turns green.
   - The Door LED goes out.

5.22 Setting up the Door Ajar Event Actions

To set up the Lock Strike Release Time and Output settings:

1. Enter the Programming mode.

2. Press **41** to enter Menu 41. [4][1]

   The Mode LED turns red.

3. Enter the 2-digit Door Ajar Event settings code. [N1][N2]

   - **N1** – Determines if the auxiliary relay is activated when a Door Ajar event occurs
     - Enter **1** enable this feature
     - Enter **0** to disable this feature
   - **N2** – Determines if the internal siren is activated when a Door Ajar event occurs
     - Enter **1** enable this feature
     - Enter **0** to disable this feature

   If the 2-digit Door Ajar Event settings code is entered correctly, the Door Ajar Event settings are updated and the controller returns to Programming mode.

The Mode LED turns orange.

If the 2-digit Door Ajar Event settings code is entered incorrectly, the Door Ajar Event settings are NOT updated. The controller exits Programming mode and returns to Normal mode.

- You hear a long beep.
- The Mode LED turns green.

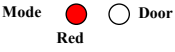
5.23 Setting up the Forced Door Event Actions

To set up the Forced Door Event actions:

1. Enter the Programming mode.

2. Press **42** to enter Menu 42.

The Mode LED turns red.



3. Enter the 2-digit Forced Door Event settings code.

- **N1** – Determines if the auxiliary relay is activated when a Forced Door event occurs
  - Enter **1** enable this feature
  - Enter **0** to disable this feature
- **N2** – Determines if the internal siren is activated when a Forced Door event occurs
  - Enter **1** enable this feature
  - Enter **0** to disable this feature

If the 2-digit Forced Door Event settings code is entered correctly, the Forced Door Event settings are updated and the controller returns to Programming mode.

The Mode LED turns orange.

If the 2-digit Forced Door Event settings code is entered incorrectly, the Forced Door Event settings are NOT updated. The controller exits Programming mode and returns to Normal mode.

- You hear a long beep.
- The Mode LED turns green.

5.24 Setting up the Tamper Event Actions

To set up the Tamper Event actions:

1. Enter the Programming mode.

2. Press **43** to enter Menu 43.

   The Mode LED turns red.

3. Enter the 2-digit Tamper Event settings code.

   - **N1** – Determines if the auxiliary relay is activated when a Tamper event occurs
     - Enter **1** enable this feature
     - Enter **0** to disable this feature
   - **N2** – Determines if the internal siren is activated when a Tamper event occurs
     - Enter **1** enable this feature
     - Enter **0** to disable this feature

   If the 2-digit Tamper Event settings code is entered correctly, the Tamper Event settings are updated and the controller returns to Programming mode.

   The Mode LED turns orange.

   If the 2-digit Tamper Event settings code is entered incorrectly, the Tamper Event settings are NOT updated. The controller exits Programming mode and returns to Normal mode.

   - You hear a long beep.
   - The Mode LED turns green.

5.25 Setting up the Duress Event Actions

To set up the Duress Event actions:

1. Enter the Programming mode.

2. Press **44** to enter Menu 44.

   The Mode LED turns red.

3. Enter the 2-digit Duress Event settings code.

- **N1** – Determines if the auxiliary relay is activated when a Duress event occurs
  - Enter **1** enable this feature
  - Enter **0** to disable this feature
- **N2** – Determines if the internal siren is activated when a Duress event occurs
  - Enter **1** enable this feature
  - Enter **0** to disable this feature

If the 2-digit Duress Event settings code is entered correctly, the Duress Event settings are updated and the controller returns to Programming mode.

The Mode LED turns orange.

If the 2-digit Duress Event settings code is entered incorrectly, the Duress Event settings are NOT updated. The controller exits Programming mode and returns to Normal mode.

- You hear a long beep.
- The Mode LED turns green.

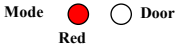
5.26 Setting up the REX Event Actions

To set up the REX Event actions:

1. Enter the Programming mode.

2. Press **45** to enter Menu 45.

The Mode LED turns red.



3. Enter the 2-digit REX Event settings code.

- **N1** – Determines if the lock strike relay is activated when the REX button is pushed
  - Enter **1** enable this feature
  - Enter **0** to disable this feature
- **N2** – Determines if the auxiliary relay is activated when the REX button is pushed
  - Enter **1** enable this feature
  - Enter **0** to disable this feature

If the 2-digit REX Event settings code is entered correctly, the REX Event settings are updated and the controller returns to Programming mode.

The Mode LED turns orange.

If the 2-digit REX Event settings code is entered incorrectly, the REX Event settings are NOT updated. The controller exits Programming mode and returns to Normal mode.

- You hear a long beep.
- The Mode LED turns green.

5.27 Setting up the Chime Alert Event Actions

To set up the Chime Alert Event actions:

1. Enter the Programming mode.

2. Press **46** to enter Menu 46.

The Mode LED turns red.

3. Enter the 2-digit Chime Alert Event settings code.

- **N1** – Determines if the chime sounds when the Door Monitor input is activated
  - Enter **1** enable this feature
  - Enter **0** to disable this feature
- **N2** – Determines if the chime sounds when a valid PIN code or proximity card is applied to the controller
  - Enter **1** enable this feature
  - Enter **0** to disable this feature

If the 2-digit Chime Alert Event settings code is entered correctly, the Chime Alert Event settings are updated and the controller returns to Programming mode.

The Mode LED turns orange.

If the 2-digit Chime Alert Event settings code is entered incorrectly, the Chime Alert Event settings are NOT updated. The controller exits Programming mode and returns to Normal mode.

- You hear a long beep.
- The Mode LED turns green.

5.28 Setting up the Real Time Clock (RTC) – Year

To set up the RTC – Year:

1. Enter the Programming mode.

2. Press **51** to enter Menu 51.

The Mode LED turns red.

3. Enter the 2-digit year.

The two digits represent the last two digits of the year. By default, the first two digits are 20.

For example, if you enter "**12**", the year would be 2012.

If the 2-digit year is entered correctly, the year is updated and the controller returns to Programming mode.

The Mode LED turns orange.

If the 2-digit year is entered incorrectly, the year is NOT updated. The controller exits Programming mode and returns to Normal mode.

- You hear a long beep.
- The Mode LED turns green.

5.29 Setting up the Real Time Clock (RTC) – Date

To set up the RTC – Date:

1. Enter the Programming mode.

2. Press **52** to enter Menu 52.

The Mode LED turns red.

3. Enter the 4-digit date.

- **DD** – The first two digits represent the day of the month and should be between 01 and 31 days
- **MM** – The last two digits represent the month of the year and must be between 01 and 12 months

If the 4-digit date is entered correctly, the date is updated and the controller returns to Programming mode.

The Mode LED turns orange.

If the 4-digit date is entered incorrectly, the date is NOT updated. The controller exits Programming mode and returns to Normal mode.

- You hear a long beep.
- The Mode LED turns green.

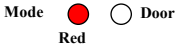
5.30 Setting up the Real Time Clock (RTC) – Time

To set up the RTC – Time:

1. Enter the Programming mode.

2. Press **53** to enter Menu 53.

   The Mode LED turns red.



3. Enter the 4-digit time.

   - **HH** – The first two digits must be between 00 and 23 hours
   - **MM** – The last two digits must be between 00 and 59 minutes

   If the 4-digit time is entered correctly, the time is updated and the controller returns to Programming mode.

   The Mode LED turns orange.

   If the 4-digit time is entered incorrectly, the time is NOT updated. The controller exits Programming mode and returns to Normal mode.

   - You hear a long beep.
   - The Mode LED turns green.

5.31 Changing the Door Number

To change the door number:

1. Enter the Programming mode.

2. Press **61** to enter Menu 61.

   The Mode LED turns red.

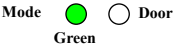
3. Enter the 2-digit Door Number between 01 and 08.

   If the 2-digit Door Number is entered correctly, the Door Number is updated and the controller returns to Programming mode.

The Mode LED turns orange.

If the 2-digit Door Number is entered incorrectly, the Door Number is NOT updated. The controller exits Programming mode and returns to Normal mode.

- You hear a long beep.
- The Mode LED turns green.



5.32 Replacing a Lost Programming Code

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

The AC-115 must be in Normal mode; otherwise, this does not work.

Make sure that the Mode LED is green before proceeding.

To replace a lost Programming code:

1. Disconnect power from the AC-115.
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 2 minutes to program a new Programming code into the controller using the initial default code (1234) before the controller reverts to the existing code.
6. Enter Programming mode using the default Programming code 1234.
7. Use Menu 21 (Section 5.9) to set a new Programming code.

5.33 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-115 must be in Secure mode or this procedure does not work.

Make sure that the Mode LED is red before proceeding.

To replace a lost Normal/Secure code:

1. Disconnect power from the AC-115.
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 2 minutes to enter the default Secure code (3838) to return the system to Normal mode.
6. Once in Normal mode, you can enter Programming mode and create a new Secure code (Section 5.10).

A. Replacing the Battery

You can replace the battery in the controller.

Caution

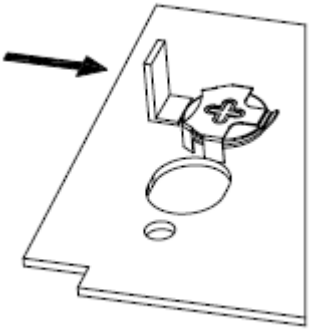
Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

To replace the battery:

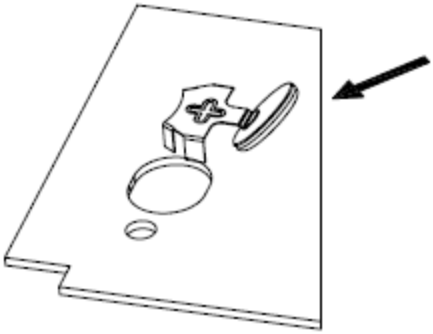
1. At the back of the controller, unscrew the four screws to open the battery case.
2. Use any insulator to slide the old battery out (Figure 7).

Figure 7: Remove Old Battery



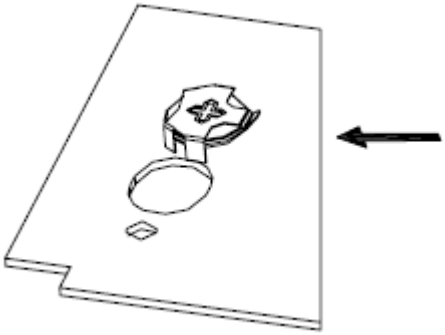
3. Insert the new battery at an angle as shown in Figure 8.

Figure 8: Insert New Battery



4. Push the new battery fully into the case (Figure 9).

Figure 9: Push Battery into Place



B. Limited Warranty

ROSSLARE'S TWO-YEAR LIMITED WARRANTY is applicable worldwide. This warranty supersedes any other warranty. ROSSLARE'S TWO-YEAR LIMITED WARRANTY is subject to the following conditions:

WARRANTY

Warranty of ROSSLARE'S products extends to the original purchaser (Customer) of the ROSSLARE product and is not transferable.

PRODUCTS COVERED BY THIS WARRANTY AND DURATION

ROSSLARE warrants the AC-115 Compact Networked Single-Door Controller to be free from defects in materials and assembly in the course of normal use and service. The warranty period commences with the date of shipment to the original purchaser and extends for a period of 2 years (24 months).

WARRANTY REMEDY COVERAGE

In the event of a breach of warranty, ROSSLARE will credit Customer with the price of the Product paid by Customer, provided that the warranty claim is delivered to ROSSLARE by the Customer during the warranty period in accordance with the terms of this warranty. Unless otherwise requested by a ROSSLARE representative, return of the failed product(s) is not immediately required.

If ROSSLARE has not contacted the Customer within a sixty (60) day holding period following the delivery of the warranty claim, Customer will not be required to return the failed product(s). All returned Product(s), as may be requested at ROSSLARE'S sole discretion, shall become the property of ROSSLARE.

To exercise the warranty, the user must contact ROSSLARE Enterprises Ltd. to obtain an RMA number after which, the product must be returned to the Manufacturer freight prepaid and insured.

In the event ROSSLARE chooses to perform a product evaluation within the sixty (60) day holding period and no defect is found, a minimum US$ 50.00 or equivalent charge will be applied to each Product for labor required in the evaluation.

ROSSLARE will repair or replace, at its discretion, any product that under normal conditions of use and service proves to be defective in material or workmanship. No charge will be applied for labor or parts with respect to defects covered by this warranty, provided that the work is done by ROSSLARE or a ROSSLARE authorized service center.

EXCLUSIONS AND LIMITATIONS

ROSSLARE shall not be responsible or liable for any damage or loss resulting from the operation or performance of any Product or any systems in which a Product is incorporated. This warranty shall not extend to any ancillary

equipment not furnished by ROSSLARE, which is attached to or used in conjunction with a Product, nor to any Product that is used with any ancillary equipment, which is not furnished by ROSSLARE.

This warranty does not cover expenses incurred in the transportation, freight cost to the repair center, removal or reinstallation of the product, whether or not proven defective.

Specifically excluded from this warranty are any failures resulting from Customer's improper testing, operation, installation, or damage resulting from use of the Product in other than its normal and customary manner, or any maintenance, modification, alteration, or adjustment or any type of abuse, neglect, accident, misuse, improper operation, normal wear, defects or damage due to lightning or other electrical discharge. This warranty does not cover repair or replacement where normal use has exhausted the life of a part or instrument, or any modification or abuse of, or tampering with, the Product if Product disassembled or repaired in such a manner as to adversely affect performance or prevent adequate inspection and testing to verify any warranty claim.

ROSSLARE does not warrant the installation, maintenance, or service of the Product. Service life of the product is dependent upon the care it receives and the conditions under which it has to operate.

In no event shall ROSSLARE be liable for incidental or consequential damages.

LIMITED WARRANTY TERMS

This warranty sets forth the full extent of ROSSLARE'S warranty.

The terms of this warranty may not be varied by any person, whether or not purporting to represent or act on behalf of ROSSLARE.

This limited warranty is provided in lieu of all other warranties. All other warranties expressed or implied, including without limitation, implied warranties of merchantability and fitness for a particular purpose, are specifically excluded.

In no event shall ROSSLARE be liable for damages in excess of the purchase price of the product, or for any other incidental, consequential or special damages, including but not limited to loss of use, loss of time, commercial loss, inconvenience, and loss of profits, arising out of the installation, use, or inability to use such product, to the fullest extent that any such loss or damage may be disclaimed by law.

This warranty shall become null and void in the event of a violation of the provisions of this limited warranty.

AC-115

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