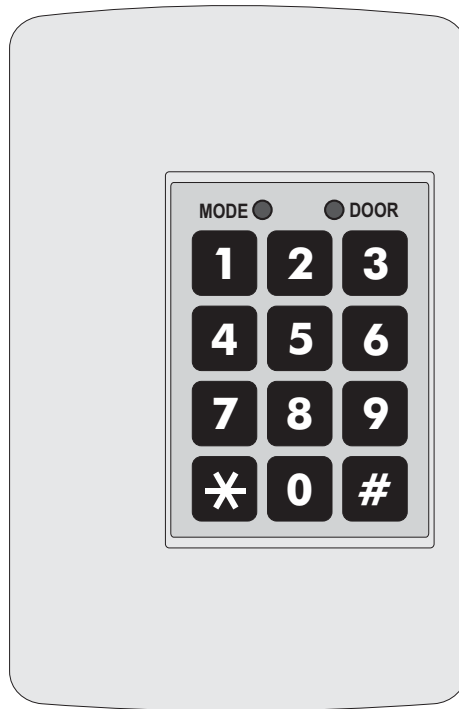


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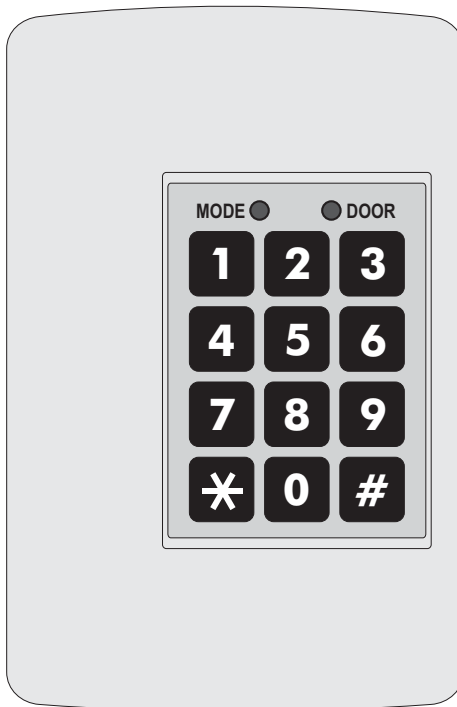


AC-115

Hardware Installation and User's Guide

ROSSLARE

Hardware Installation and User's Guide for the AC-115 Access Control System



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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) it is attached to.

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.

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 aren't accessible from the controller's programming keypad. Programming the AC-115 with a PC is covered in the provided Software Installation and User's Guide.

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.

Topics in this Chapter

- **Key Features**
- **Technical Specifications**

Key Features

Here are some of the AC-115 system key features:

- Networkable up to 8 doors
- RS485 PC Programming Interface
- Multi-language PC software
- Programmable PC software access rights
- Supports up to 2400 users
- Realtime System Monitoring
- 2000 Event History
- Realtime Clock
- 8 Programmable Access Time Zones
- 24 Programmable Holiday Dates
- Supports two 26-Bit Wiegand compatible Readers
- Three Modes of Operation
 - Normal Mode
 - Bypass Mode
 - Secure Mode
- Lock Strike Relay Output
- Auxiliary 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 LED's
- Built-in Programming Keypad
- Back-up Real Time Clock Battery
- Battery Charger
- Built-in Case Tamper
- Bell, Chime, & Strobe annunciator
- Programmable Lock Strike & 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

Technical Specifications

Electrical Characteristics

Main Unit

Operating Voltage:	16V AC (1.5A, 25VA) From a transformer
Maximum Input Current:	(Not including attached devices) Standby: 65mA Maximum: 120mA
Battery Charger:	12V DC Lead Acid Battery Up to 7AH recommended

Outputs

Lock Strike Relay Output:	5A Relay
Lock Strike Power Supply:	12V DC constant voltage 1.2 A current limit
Auxiliary Relay Output:	1A Relay Closed to Ground
Reader Power Supply:	Voltage: 12V DC Max Current: 300mA

Inputs

Release to Exit (REX):	N.O. Dry Contact
Door Monitor:	N.C. Dry Contact
Reader Input:	26-Bit Wiegand Compatible

Indicators & Annunciators

Visual: Two Tri-Colored LEDs

Audio: Built in Sounder (Bell, Chime & Siren)
Piezoelectric Buzzer

Environmental Characteristics

Operating Temperature: -25°F to 145°F (-31°C to 63°C)

Operating Humidity: 0 to 95% (Non-Condensing)

Mechanical Characteristics

Dimensions: 5.3" (134mm) L x 3.4" (85mm) W x 1.2" (30mm) D
(Fits US Gang Box)

Weight: 0.5 lbs (220g)

Installation

The AC-115 has been designed for easy installation. Only a few steps are required to install the controller.

In this chapter 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, Door Monitor switch, Auxiliary Output, and External 26-Bit Wiegand Compatible readers.

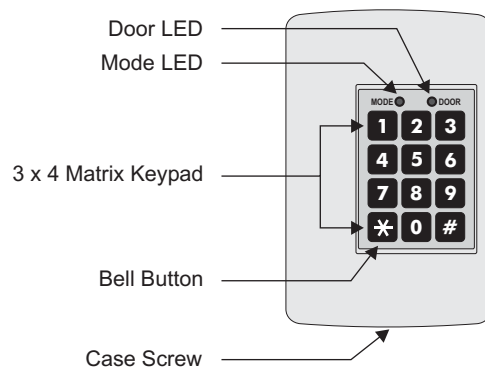
Also covered in this chapter is how to wire the AC-115 to a PC as a single unit and for use in a system of networked AC-115's.

Topics in this Chapter

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

Mounting the Controller

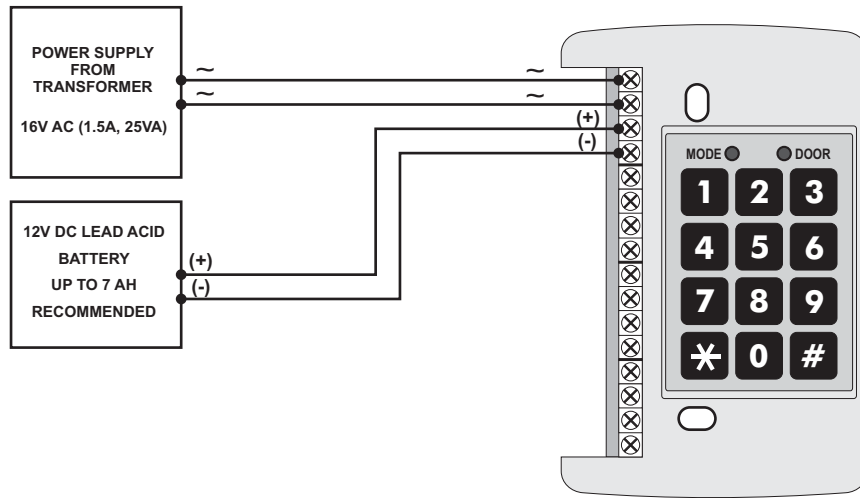
- 1) Before starting, select the location to mount the AC-115 controller. The controller should be installed indoors and within the premises to be secured. It is recommended that the controller be installed where it cannot be seen for increased security, but still close enough to the door so that the 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.
- 2) Find the mounting template label that is provided in your 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.
- 3) (Skip this step when attaching the AC-115 to a US Gang Box)
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 such as connecting to a PC or adding a backup battery. Drill two screw holes for mounting the AC-115 to the wall.
- 4) Remove the case screw from the controller (see diagram below to locate the case screw) and remove the front case from the controller.
- 5) 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.



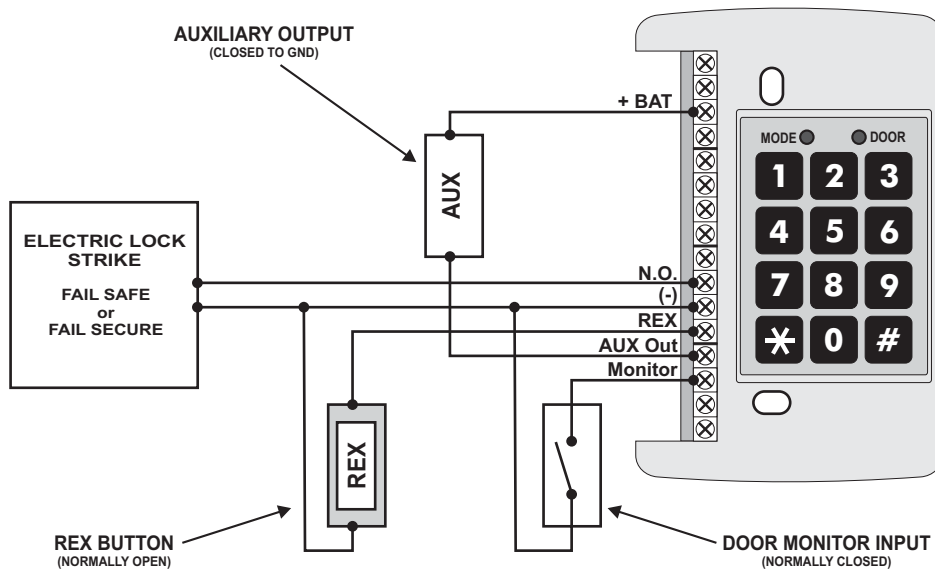
- 6) Wire the controller according to the diagrams on the next few pages.
- 7) Return and secure the front case using the security screw and security tool provided in the Installation Kit.

You have now mechanically installed the controller.

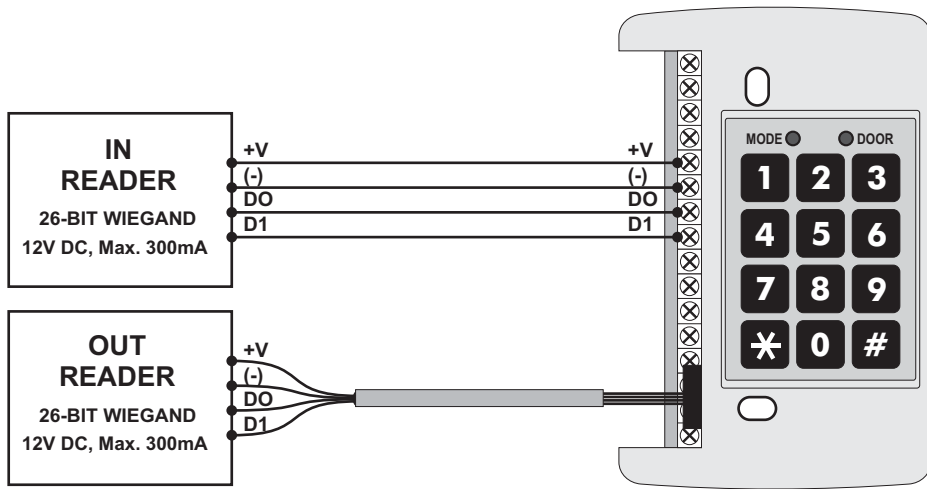
Power Wiring



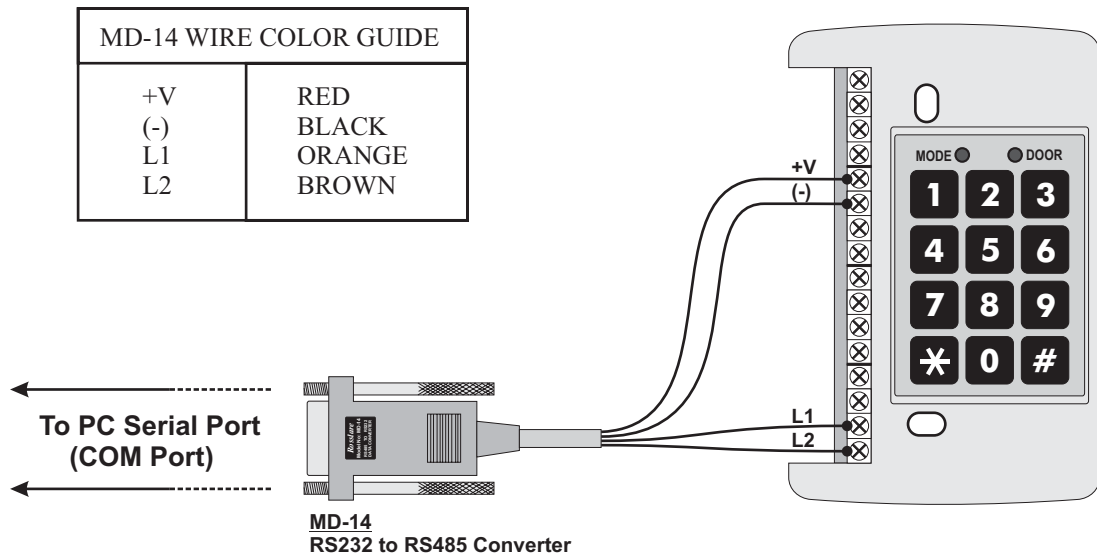
Typical Lock and Option Wiring



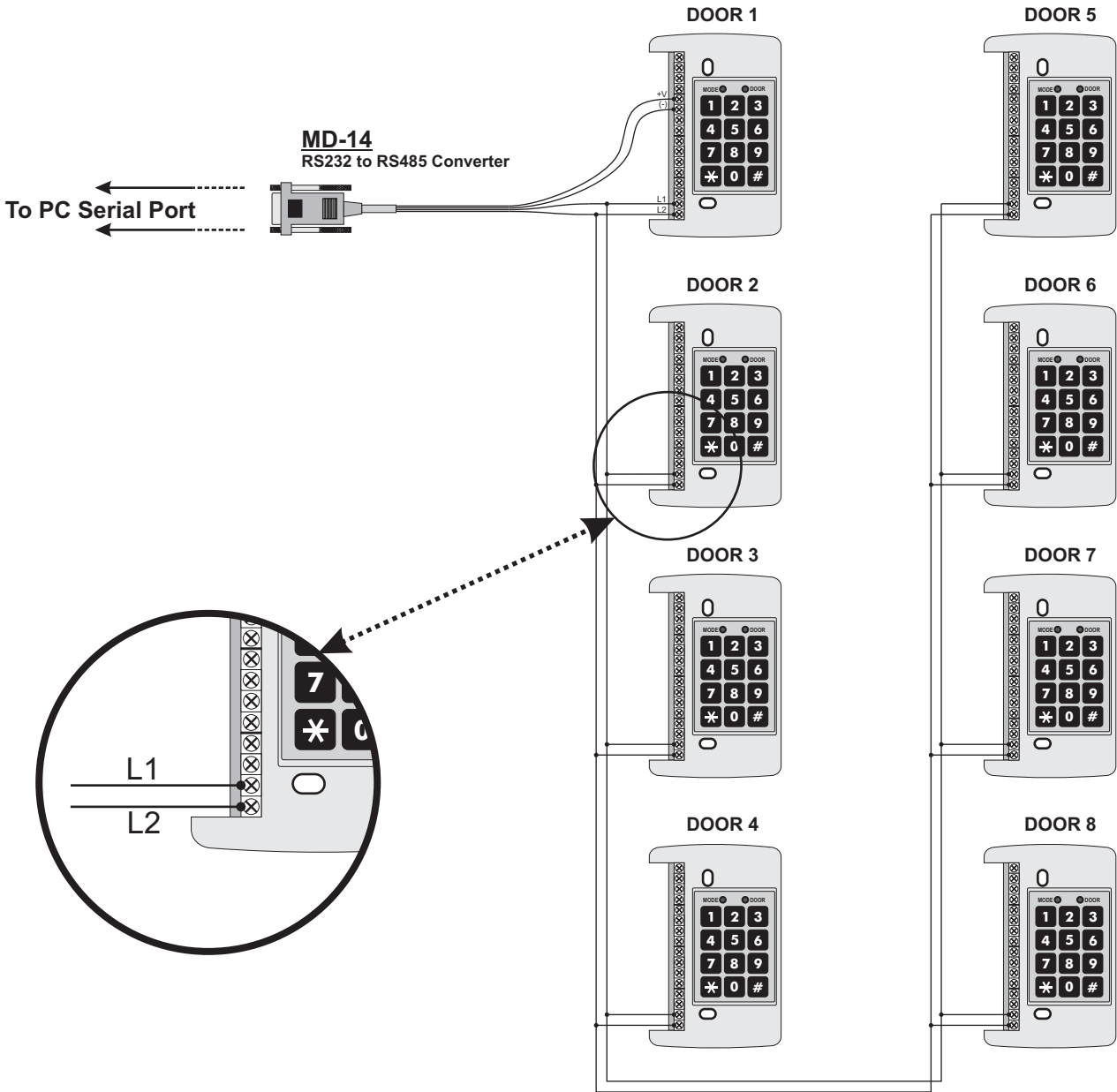
Reader Wiring



Connecting a controller to a PC



Connecting a system to a PC



Features and Concepts

Now that you have installed your AC-115 controller or networked system of controllers, it is time to get familiar with its 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.

Topics in this Chapter

- **Code Assignment**
- **Modes of Operation**
- **Changing the Modes of Operation**
- **Events and Event Actions**

Code Assignment (Lock Strike & Auxiliary)

Whenever an employee is added to an AC-115 from the controller's programming keypad or from a PC, by default the employee code is 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 Programming Menu 12 on Page 29 for more details on Code Assignment.

Modes of Operation

The AC-115 has three modes of operation Normal, Bypass, and Secure Mode. The three modes provide different levels of security.

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 will first check 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 will open without checking time zones.

If the Employee Code is Code Assigned to the Lock Strike Output, the Lock Strike Output will activate, and remain active until the Lock Strike Release Time has passed 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 will activate, and remain active until the Auxiliary Release Time has passed or toggle if the Auxiliary Release Time is set to zero.

2) Bypass Mode

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

- The Mode 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 will be orange.

- The Mode LED is orange



3) Secure Mode

- The Mode LED is red

Mode   Door
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) will only accept 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.

Changing the Modes of Operation

Changing from Normal Mode to Secure Mode

- 1) The controller is in Normal Mode
• Mode LED is green
- 2) Present your Normal / Secure Code to one of the external readers, or enter your Normal / Secure PIN Code at the controllers programming keypad.

Mode   Door
GREEN

If your Normal / Secure PIN Code is less than 6-digits long do not forget to press the “#” key to confirm your entry after entering your Normal / Secure PIN Code.

- Mode LED will turn red
You are now in Secure Mode

Mode   Door
RED

Changing from Secure Mode to Normal Mode

- 1) The controller is in Secure Mode
• Mode LED is red
- 2) Present your Normal / Secure Code to one of the external readers, or enter your Normal / Secure PIN Code at the controllers programming keypad.

Mode   Door
RED

If your Normal / Secure PIN Code is less than 6-digits long do not forget to press the “#” key to confirm your entry after entering your Normal / Secure PIN Code.

- Mode LED will turn green
You are now in Normal Mode

Mode   Door
GREEN

Changing from Normal Mode to Bypass Mode

- 1) The controller is in Normal Mode
 - Mode LED is green

Mode   Door
GREEN

- 2) Present your Normal / Bypass Code to one of the external readers, or enter your Normal / Bypass PIN Code at the controllers programming keypad.

If your Normal / Bypass PIN Code is less than 6-digits long do not forget to press the “#” key to confirm your entry after entering your Normal / Bypass PIN Code.

- Mode LED will turn orange
You are now in Bypass Mode

Mode   Door
ORANGE

Changing from Bypass Mode to Normal Mode

- 1) The controller is in Bypass Mode
 - Mode LED is orange

Mode   Door
ORANGE

- 2) Present your Normal / Bypass Code to one of the external readers, or enter your Normal / Bypass PIN Code at the controllers programming keypad.

If your Normal / Bypass PIN Code is less than 6-digits long do not forget to press the “#” key to confirm your entry after entering your Normal / Bypass PIN Code.

- Mode LED will turn green
You are now in Normal Mode

Mode   Door
GREEN

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.

Monitor Event

The Monitor Event is triggered when the Door Monitor Switch has been activated, i.e. 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

Door Ajar Event

A door is considered ajar when the Door Monitor Switch has been activated with a Valid Code being entered. If the door is left open longer than the Ajar Delay Time, a Door Ajar Event will occur.

Possible Ajar Door Event Actions

Siren Event (Programmable Siren Time)

Auxiliary Output Activation (Programmable Auxiliary Release Time)

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 will count down. When the count is done, the Forced Door Event will occur.

Possible Forced Door Event Actions

Siren Event (Programmable Siren Time)

Auxiliary Output Activation (Programmable Auxiliary Release Time)

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.

Possible Duress Event Actions

Siren Event (Programmable Siren Time)

Auxiliary Output Activation (Programmable Auxiliary Release Time)

Tamper Event

A Tamper Event is triggered if the controller detects that a reader has been disconnected or loses power, and 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)

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)

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)

Release to Exit (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)

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)

Programming Instructions

After reading Chapter 3 - Features and Concepts, you should already have an understanding of the AC-115's features.

Most of these features can be programmed via the AC-115's programming keypad. The following pages describe how to program the AC-115 using the programming keypad.

Topics in this Chapter

- **Programming Manual**
- **Programming Quick Reference Guide**

AC-115

Programming Instructions

Programming Menu Quick Reference Guide

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1 0	Deleting all Employee Codes	27
1 1	Adding an Employee Code	28
1 2	Lock Strike Relay and Auxiliary Code Assignment	29
1 9	Deleting and Employee Code	30
2 0	Resetting all Special Codes to Factory Default Settings	31
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2 2	Changing the Normal / Secure Code (default 3838)	33
2 3	Changing the Duress Code	34
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2 5	Changing the Auxiliary Code	36
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3 0	Resetting all Timed Events and Output Settings to Factory Default Settings	38
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4 0	Resetting all Event Actions to Factory Default Settings	44
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6 1	Changing the Door Number	54

Entering Programming Mode

To begin programming the controllers 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.

- 1) Press the “#” key for 2 seconds
 - Mode LED will flash orange



- 2) Present the Programming Code to one of the attached readers or enter a 1 to 6-digit PIN Code. If your Programming PIN Code is less than 6-digits long do not forget to press the “#” key to confirm your entry after entering your new Programming Code. The factory default Programming Code is 1234.

If the Programming Code is valid the Mode LED will stop flashing and the controller will be in Programming Mode.

- The Mode LED will stop flashing



If the Programming Code is NOT valid the controller will NOT enter Programming Mode.

Exiting Programming Mode

- 1) To exit Programming Mode at any time: Press the “#” key for 2 seconds. You will hear a long beep and the controller will return to its previous Operating Mode.
- 2) Wrong entries may reset the controller back to its previous Operating Mode.
- 3) While in Programming Mode if no key is pressed for 1 minute the AC-115 will exit programming mode and return to its previous Operating Mode.
- 4) A short press on the “#” key may also return the controller to its previous Operating Mode.

Return to Factory Default Settings

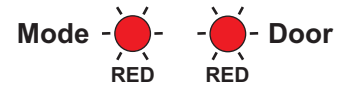
- 1) Enter Programming Mode
 - Mode LED will turn orange



- 2) Press "00" to enter **Menu 00**



- The Mode LED will flash red
- The Door LED will flash red



- 3) Enter the Programming Code for confirmation.



If your Programming Code is less than 6-digits long do not forget to press the “#” key to confirm your entry after entering your Programming Code.

- 4) If the Programming Code is entered correctly, the controller will be reset back to its factory default setting. The controller will exit Programming Mode and return to Normal Mode.

- You will hear a short beep
- The Mode LED will turn green
- The Door LED will stop flashing



If the Programming Code is entered incorrectly, the controller will NOT be reset back to its factory default setting. The controller will exit Programming Mode and return to Normal Mode.

- You will hear a long beep
- The Mode LED will turn green
- The Door LED will stop flashing



Note: Using this command does not reset the AC-115’s Door Number. The Door Number will remain unchanged after the controller is reset.

Deleting all Employee Codes

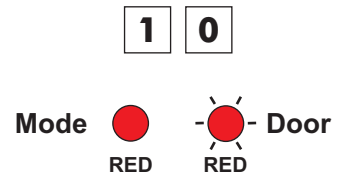
1) Enter Programming Mode

- Mode LED will turn orange



2) Press "10" to enter Menu 10

- The Mode LED will turn red
- The Door LED will flash red



3) Enter the Programming Code for confirmation.



If your Programming Code is less than 6-digits long do not forget to press the “#” key to confirm your entry after entering your Programming Code.

4) If the Programming Code is entered correctly, all Employee Codes will be deleted. The controller will exit Programming Mode and return to Normal Mode.

- You will hear a short beep
- The Mode LED will turn green
- The Door LED will stop flashing



If the Programming Code is entered incorrectly, all Employee Codes will NOT be deleted. The controller will exit Programming Mode and return to Normal Mode.

- You will hear a long beep
- The Mode LED will turn green
- The Door LED will stop flashing



Adding an Employee Code

- 1) Enter Programming Mode
 - Mode LED will turn orange



- 2) Press "11" to enter **Menu 11**



- The Mode LED will turn red
- The Door LED will turn green



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



- The Door LED will flash green indicating that controller is ready to learn the employees 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 your Programming Code is less than 6-digits long do not forget to press the “#” key to confirm your entry after entering your new Programming Code.

If the Proximity Card or PIN is valid the Mode LED will stop flashing and then the controller is ready for you to enter the next 4-digit Employee Slot Code that you want to add or press the “#” key to move to the next slot number.



If you do not wish to continue enrolling codes, press the “#” key for 2 seconds and the controller will return to Normal Mode.

Lock Strike Relay and Auxiliary Relay Code Assignment

- 1) Enter Programming Mode
 - Mode LED will turn orange



- 2) Press "12" to enter **Menu 12**



- The Mode LED will turn red
- The Door LED will turn green



- 3) Enter the 4-Digit Employee Slot Code that you wish to assign a code to.



- The Door LED will turn orange



- 4) Enter your 2-digit assignment code.



First digit determines if the Lock Strike Relay is activated or not.
 "1" = Lock Strike Activated
 "0" = Lock Strike Not Activated

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 will wait for a new employee number that you wish to assign a code to.

To continue enrolling new Employees press the "#" key to increment to the next Employee Slot Code or enter a new Slot number. If you do not wish to continue enrolling codes, press the "#" key for 2 seconds and the controller will exit Programming Mode and return to Normal Mode.

Deleting an Employee Code

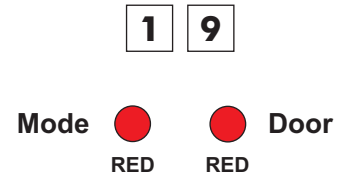
1) Enter Programming Mode

- Mode LED will turn orange



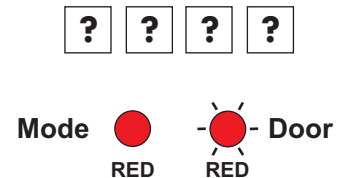
2) Press "19" to enter Menu 19

- The Mode LED will turn red
- The Door LED will turn red



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

- The Door LED will flash red



4) Enter your Programming Code to confirm the deletion.

If your Programming Code is less than 6-digits long do not forget to press the “#” key to confirm your entry after entering your new Programming Code.



5) If the new Programming Code is correct the Employee Code will be deleted and the controller will return to Programming Mode.

- You will hear a short beep
- The Mode LED will turn green



If the new Programming Code is not correct the Employee Code will NOT be deleted and the controller will exit Programming Mode and return to Normal Mode.

- You will hear a long beep
- The Mode LED will turn green



Resetting all Special Codes to Factory Default Settings

- 1) Enter Programming Mode
 - Mode LED will turn orange



- 2) Press "20" to enter **Menu 20**



- The Mode LED will turn red
- The Door LED will flash red



- 3) Enter the Programming Code for confirmation.



If your Programming Code is less than 6-digits long do not forget to press the “#” key to confirm your entry after entering your Programming Code.

- 4) If the Programming Code is entered correctly, the Special Codes will reset to factory default settings. The controller will exit Programming Mode and enter Normal Mode.

- You will hear a short beep
- The Mode LED will turn green
- The Door LED will stop flashing



If the Programming Code is entered incorrectly, the Special Codes will NOT reset to factory default settings. The controller will exit Programming Mode and enter Normal Mode.

- You will hear a long beep
- The Mode LED will turn green
- The Door LED will stop flashing



Changing the Programming Code

1) Enter Programming Mode

- Mode LED will turn orange



2) Press "21" to enter **Menu 21**



- The Mode LED will turn red



3) Present a Proximity Card to one of the attached readers or enter a 1 to 6-digit PIN Code. If your Programming PIN Code is less than 6-digits long do not forget to press the “#” key to confirm your entry after entering your new Programming Code.

4) If the new Programming Code is unique, the Programming Code will be updated and the controller will return to Programming Mode.

- You will hear a short beep
- The Mode LED will turn orange



If the Programming Code entered is not unique, the Programming Code will NOT be updated and the controller will exit Programming Mode and return to Normal Mode.

- You will hear a long beep
- The Mode LED will turn green



Note: The factory default programming code is 1234.

Programming Codes made of all zero's such as “0”, “00”, ... , “000000” are not valid Programming Codes and will not be accepted by the controller.

Changing the Normal / Secure Code

1) Enter Programming Mode

- Mode LED will turn orange



2) Press "22" to enter **Menu 22**



- The Mode LED will turn red



3) Present a Proximity Card to one of the attached readers or enter a 1 to 6-digit PIN Code. If your Normal / Secure PIN Code is less than 6-digits long do not forget to press the “#” key to confirm your entry after entering your new Programming Code.

4) If the new Normal / Secure Code is unique, the Normal / Secure Code will be updated and the controller will return to Programming Mode.

- You will hear a short beep
- The Mode LED will turn orange



If the Normal / Secure Code entered is not unique, the Normal / Secure Code will NOT be updated and the controller will exit Programming Mode and return to Normal Mode.

- You will hear a long beep
- The Mode LED will turn green



Note: The factory default Normal / Secure Code is 3838.

Normal / Secure Codes made of all zero's such as “0”, “00”, ... , “000000” will disable switching between Normal and Secure Mode and vice versa.

Changing the Duress Code

- 1) Enter Programming Mode
 - Mode LED will turn orange



- 2) Press "23" to enter **Menu 23**



- The Mode LED will turn red



- 3) Present a Proximity Card to one of the attached readers or enter a 1 to 6-digit PIN Code. If your Duress PIN Code is less than 6-digits long do not forget to press the “#” key to confirm your entry after entering your new Programming Code.

- 4) If the new Duress Code is unique, the Duress Code will be updated and the controller will return to Programming Mode.

- You will hear a short beep
- The Mode LED will turn orange



If the Duress Code entered is not unique, the Duress Code will NOT be updated and the controller will exit Programming Mode and return to Normal Mode.

- You will hear a long beep
- The Mode LED will turn green



Note: There is no factory default Duress Code.

Duress Codes made of all zero's such as “0”, “00”, ... , “000000” will disable the Duress Event.

Changing the Lock Strike Code

1) Enter Programming Mode

- Mode LED will turn orange



2) Press "24" to enter **Menu 24**



- The Mode LED will turn red



3) Present a Proximity Card to one of the attached readers or enter a 1 to 6-digit PIN Code. If your Lock Strike Code is less than 6-digits long do not forget to press the “#” key to confirm your entry after entering your new Programming Code.

4) If the new Lock Strike Code is unique, the Lock Strike Code will be updated and the controller will return to Programming Mode.

- You will hear a short beep
- The Mode LED will turn orange



If the Lock Strike Code entered is not unique, the Lock Strike Code will NOT be updated and the controller will exit Programming Mode and return to Normal Mode.

- You will hear a long beep
- The Mode LED will turn green



Note: The factory default Lock Strike Code is 2580.

Lock Strike Codes made of all zero's such as “0”, “00”, ... , “000000” will disable the Lock Strike Code Event.

Changing the Auxiliary Code

1) Enter Programming Mode

- Mode LED will turn orange



2) Press "25" to enter **Menu 25**



- The Mode LED will turn red



3) Present a Proximity Card to one of the attached readers or enter a 1 to 6-digit PIN Code. If your Auxiliary PIN Code is less than 6-digits long do not forget to press the “#” key to confirm your entry after entering your new Programming Code.

4) If the new Auxiliary Code is unique, the Auxiliary Code will be updated and the controller will return to Programming Mode.

- You will hear a short beep
- The Mode LED will turn orange



If the Auxiliary Code entered is not unique, the Auxiliary Code will NOT be updated and the controller will exit Programming Mode and return to Normal Mode.

- You will hear a long beep
- The Mode LED will turn green



Note: There is no factory default Auxiliary Code.

Auxiliary Codes made of all zero's such as “0”, “00”, ... , “000000” will disable the Auxiliary Code Event.

Changing the Normal / Bypass Code

1) Enter Programming Mode

- Mode LED will turn orange



2) Press "26" to enter **Menu 26**



- The Mode LED will turn red



3) Present a Proximity Card to one of the attached readers or enter a 1 to 6-digit PIN Code. If your Normal / Bypass PIN Code is less than 6-digits long do not forget to press the “#” key to confirm your entry after entering your new Programming Code.

4) If the new Normal / Bypass Code is unique, the Normal / Bypass Code will be updated and the controller will return to Programming Mode.

- You will hear a short beep
- The Mode LED will turn orange



If the Normal / Bypass Code entered is not unique, the Normal / Bypass Code will NOT be updated and the controller will exit Programming Mode and return to Normal Mode.

- You will hear a long beep
- The Mode LED will turn green



Note: There is no factory default Normal / Bypass Code.

Normal / Bypass Codes made of all zero's such as “0”, “00”, ... , “000000” will disable switching between Normal and Bypass Mode and vice versa.

Resetting all Timed Events and Output Settings to Factory Default Settings

- 1) Enter Programming Mode
 - Mode LED will turn orange



- 2) Press "30" to enter **Menu 30**



- The Mode LED will turn red
- The Door LED will flash red



- 3) Enter the Programming Code for confirmation.



If your Programming Code is less than 6-digits long do not forget to press the “#” key to confirm your entry after entering your Programming Code.

- 4) If the Programming Code is entered correctly, the Timed Events and Output settings will reset to factory default settings, the controller will exit Programming Mode and enter Normal Mode.

- You will hear a short beep
- The Mode LED will turn green
- The Door LED will stop flashing



If the Programming Code is entered incorrectly, the Timed Events and Output settings will NOT reset to factory default settings, the controller will exit Programming Mode and enter Normal Mode.

- You will hear a long beep
- The Mode LED will turn green
- The Door LED will stop flashing



Setting up the Lock Strike Release Time and Output Settings

- 1) Enter Programming Mode
 - Mode LED will turn orange



- 2) Press "31" to enter **Menu 31**



- The Mode LED will turn red



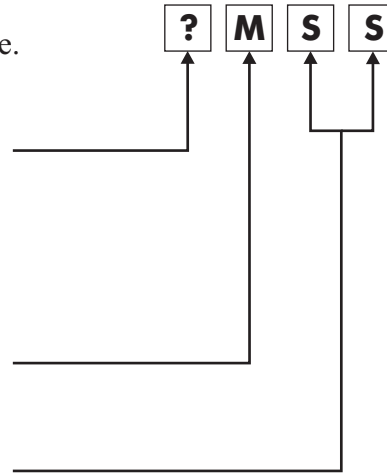
- 3) Create and enter the 4-digit settings code.
See below for more details



First digit determines if the Lock Strike Relay is Normally Open or Normally Closed
Enter "1" to for Normally Open
Enter "0" to for Normally Closed

Lock Strike Release time must be between 0 to 9 minutes.

Lock Strike Release time must be between 00 to 59 seconds.



- 4) If the 4-digit settings code is entered correctly, the settings will be updated and the controller will return to Programming Mode.

- The Mode LED will turn orange



If the 4-digit settings code is entered incorrectly, the settings will NOT be updated. You will hear a long beep and the controller will exit Programming Mode and return to Normal Mode.

- The Mode LED will turn green



Setting up the Door Ajar Time

- 1) Enter Programming Mode
 - Mode LED will turn orange



- 2) Press "32" to enter **Menu 32**



- The Mode LED will turn red



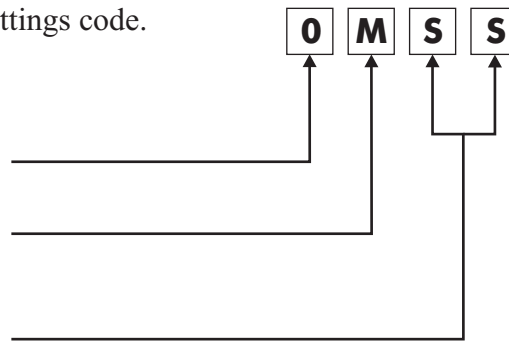
- 3) Create and Enter the 4-digit settings code.
See below for more details



First digit is always "0"

Ajar Time must be between 0 to 9 minutes.

Ajar Time must be between 00 to 59 seconds.



- 4) If the 4-digit settings code is entered correctly, the settings will be updated and the controller will return to Programming Mode.

- The Mode LED will turn orange



If the 4-digit settings code is entered incorrectly, the settings will NOT be updated. You will hear a long beep and the controller will exit Programming Mode and return to Normal Mode.

- The Mode LED will turn green



Note: A Door Ajar time of 0:00 will disable the Door Ajar Event.

Setting up the Forced Door Time

- 1) Enter Programming Mode
 - Mode LED will turn orange



- 2) Press "33" to enter **Menu 33**



- The Mode LED will turn red



- 3) Create and Enter the 4-digit settings code.
See below for more details



First digit is always "0"

Forced Door Time must be between 0 to 9 minutes.

Forced Door Time must be between 00 to 59 seconds.

- 4) If the 4-digit settings code is entered correctly, the settings will be updated and the controller will return to Programming Mode.

- The Mode LED will turn orange



If the 4-digit settings code is entered incorrectly, the settings will NOT be updated. You will hear a long beep and the controller will exit Programming Mode and return to Normal Mode.

- The Mode LED will turn green



Note: A Forced Door time of 0:00 will disable the Forced Door Event.

Setting up the Siren Time

- 1) Enter Programming Mode
 - Mode LED will turn orange



- 2) Press "34" to enter **Menu 34**



- The Mode LED will turn red



- 3) Create and Enter the 4-digit settings code.
See below for more details



First digit is always "0"

Siren Time must be between 0 to 9 minutes.

Siren Time must be between 00 to 59 seconds.

- 4) If the 4-digit settings code is entered correctly, the settings will be updated and the controller will return to Programming Mode.

- The Mode LED will turn orange



If the 4-digit settings code is entered incorrectly, the settings will NOT be updated, you will hear a long beep and the controller will exit Programming Mode and return to Normal Mode.

- The Mode LED will turn green



Note: A Siren time of 0:00 will disable the Siren Event Action.

Setting up the Auxiliary Release Time and Output Settings

- 1) Enter Programming Mode
 - Mode LED will turn orange



- 2) Press "35" to enter **Menu 35**



- The Mode LED will turn red

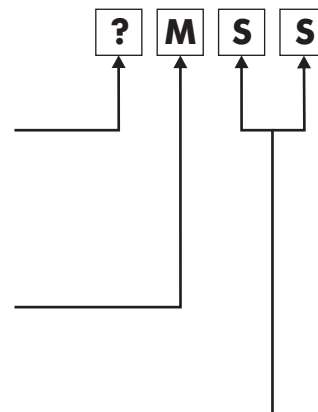


- 3) Create and Enter the 4-digit settings code.
See below for more details

First digit determines if the Auxiliary Relay is Normally Open or Normally Closed
Enter "1" to for Normally Open
Enter "0" to for Normally Closed

Auxiliary Release time must be between 0 to 9 minutes.

Auxiliary Release time must be between 00 to 59 seconds.



- 4) If the 4-digit settings code is entered correctly, the settings will be updated and the controller will return to Programming Mode.

- The Mode LED will turn orange



If the 4-digit settings code is entered incorrectly, the settings will NOT be updated. You will hear a long beep and the controller will exit Programming Mode and return to Normal Mode.

- The Mode LED will turn green



Note: An Auxiliary time 0:00 will set the Auxiliary Output to toggle mode.

Resetting all Event Actions to Factory Default Settings

- 1) Enter Programming Mode
 - Mode LED will turn orange



- 2) Press "40" to enter **Menu 40**



- The Mode LED will turn red
- The Door LED will flash red



- 3) Enter the Programming Code for confirmation.



If your Programming Code is less than 6-digits long do not forget to press the “#” key to confirm your entry after entering your Programming Code.

- 4) If the programming code is entered correctly, the Event Actions settings will reset to factory default settings. The controller will exit Programming Mode and enter Normal Mode.

- You will hear a short beep
- The Mode LED will turn green
- The Door LED will stop flashing



If the Programming Code is entered incorrectly, the Event Actions settings will NOT reset to factory default settings. The controller will exit Programming Mode and enter Normal Mode.

- You will hear a long beep
- The Mode LED will turn green
- The Door LED will stop flashing



Setting up the Door Ajar Event Actions

1) Enter Programming Mode

- Mode LED will turn orange



2) Press "41" to enter Menu 41



- The Mode LED will turn red



3) Enter the 2-digit Door Ajar Event settings.



The first digit determines if the auxiliary relay is activated when a Door Ajar Event occurs.
Enter "1" to enable this feature
Enter "0" to disable this feature

The second digit determines if the internal siren is activated when a Door Ajar Event occurs.
Enter "1" to enable this feature
Enter "0" to disable this feature

4) If the 2-digit Door Ajar Event settings are entered correctly, the Door Ajar Event settings will be updated and the controller will return to Programming Mode.

- The Mode LED will turn orange



If the 2-digit Door Ajar Event settings are entered incorrectly, the Door Ajar Event settings will NOT be updated. You will hear a long beep and the controller will exit Programming Mode and return to Normal Mode.

- The Mode LED will turn green



Setting up the Forced Door Event Actions

- 1) Enter Programming Mode
 - Mode LED will turn orange



- 2) Press "42" to enter **Menu 42**



- The Mode LED will turn red



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



The first digit determines if the auxiliary relay is activated when a Forced Door Event occurs.
Enter "1" to enable this feature
Enter "0" to disable this feature

The second digit determines if the internal siren is activated when a Forced Door Event occurs.
Enter "1" to enable this feature
Enter "0" to disable this feature

- 4) If the 2-digit Force Door Event settings are entered correctly, the Forced Door Event settings will be updated and the controller will return to Programming Mode.

- The Mode LED will turn orange



If the 2-digit Forced Door Event settings are entered incorrectly, the Forced Door Event settings will NOT be updated. You will hear a long beep and the controller will exit Programming Mode and return to Normal Mode.

- The Mode LED will turn green



Setting up the Tamper Event Actions

- 1) Enter Programming Mode
 - Mode LED will turn orange



- 2) Press "43" to enter **Menu 43**



- The Mode LED will turn red



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



The first digit determines if the auxiliary relay is activated when a Tamper Event occurs.
Enter "1" to enable this feature
Enter "0" to disable this feature

The second digit determines if the internal siren is activated when a Tamper Event occurs.
Enter "1" to enable this feature
Enter "0" to disable this feature



- 4) If the 2-digit Tamper Event settings are entered correctly, the Tamper Event settings will be updated and the controller will return to Programming Mode.

- The Mode LED will turn orange



If the 2-digit Tamper Event settings are entered incorrectly, the Tamper Event settings will NOT be updated. You will hear a long beep and the controller will exit Programming Mode and return to Normal Mode.

- The Mode LED will turn green



Setting up the Duress Event Actions

- 1) Enter Programming Mode
 - Mode LED will turn orange



- 2) Press "44" to enter **Menu 44**



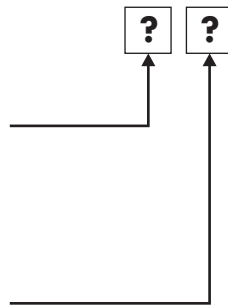
- The Mode LED will turn red



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

The first digit determines if the auxiliary relay is activated when a Duress Event occurs.
Enter "1" to enable this feature
Enter "0" to disable this feature

The second digit determines if the internal siren is activated when a Duress Event occurs
Enter "1" to enable this feature
Enter "0" to disable this feature



- 4) If the 2-digit Duress Event settings are entered correctly, the Duress Event settings will be updated and the controller will return to Programming Mode.

- The Mode LED will turn orange



If the 2-digit Duress Event settings are entered incorrectly, the Duress Event settings will NOT be updated. You will hear a long beep and the controller will exit Programming Mode and return to Normal Mode.

- The Mode LED will turn green



Setting up the Release to Exit Event Actions

- 1) Enter Programming Mode
 - Mode LED will turn orange



- 2) Press "45" to enter **Menu 45**



- The Mode LED will turn red



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



The first digit determines if the lock strike relay is activated when the REX button is pushed.
Enter "1" to enable this feature
Enter "0" to disable this feature

The second digit determines if the auxiliary relay is activated when the REX button is pushed.
Enter "1" to enable this feature
Enter "0" to disable this feature

- 4) If the 2-digit REX Event settings are entered correctly, the REX Event settings will be updated and the controller will return to Programming Mode.

- The Mode LED will turn orange



If the 2-digit REX Event settings are entered incorrectly, the REX Event settings will not be updated. You will hear a long beep and the controller will exit Programming Mode and return to Normal Mode.

- The Mode LED will turn green



Setting up the Chime Alert Event Action

- 1) Enter Programming Mode
 - Mode LED will turn orange



- 2) Press "46" to enter **Menu 46**



- The Mode LED will turn red

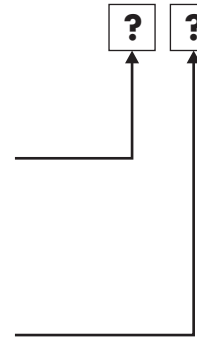


- 3) Enter the 2-digit Chime Alert settings.



The first digit determines if the Chime will sound when the Door Monitor input is activated.
Enter "1" to enable this feature
Enter "0" to disable this feature

The second digit determines if the Chime will sound when a valid PIN code or Prox card is applied to the controller.
Enter "1" to enable this feature
Enter "0" to disable this feature



- 4) If the 2-digit Chime Alert settings are entered correctly, the Chime Alert settings will be updated and the controller will return to Programming Mode.

- The Mode LED will turn orange



If the 2-digit Chime Alert settings are entered incorrectly, the Chime Alert settings will NOT be updated. You will hear a long beep and the controller will exit Programming Mode and return to Normal Mode.

- The Mode LED will turn green



Setting up the Real Time Clock (RTC) - Year

- 1) Enter Programming Mode
 - Mode LED will turn orange



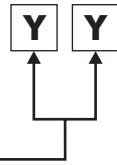
- 2) Press "51" to enter **Menu 51**



- The Mode LED will turn 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.

- 4) If the 2-digit year is entered correctly, the year will be updated and the controller will return to Programming Mode.

- The Mode LED will turn orange



If the 2-digit date is entered incorrectly, the year will NOT be updated. You will hear a long beep and the controller will exit Programming Mode and return to Normal Mode.

- The Mode LED will turn green



Setting up the Real Time Clock (RTC) - Date

- 1) Enter Programming Mode
 - Mode LED will turn orange



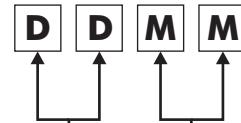
- 2) Press "52" to enter **Menu 52**



- The Mode LED will turn red



- 3) Enter the 4-digit date.



The first two digits represent the day of the month and should be between 01 and 31 days.

The last two digits represent the month of the year and must be between 01 and 12 months.

- 4) If the 4-digit date is entered correctly, the date will be updated and the controller will return to Programming Mode.

- The Mode LED will turn orange



If the 4-digit date is entered incorrectly, the date will NOT be updated. You will hear a long beep and the controller will exit Programming Mode and return to Normal Mode.

- The Mode LED will turn green



Setting up the Real Time Clock (RTC) - Time

- 1) Enter Programming Mode
 - Mode LED will turn orange



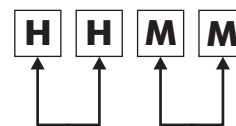
- 2) Press "53" to enter **Menu 53**



- The Mode LED will turn red



- 3) Enter the 4-digit time.



The first two digits must be between 00 and 23 hours.

The last two digits must be between 00 and 59 minutes.

- 4) If the 4-digit time is entered correctly, the time will be updated and the controller will return to Programming Mode.

- The Mode LED will turn orange



If the 4-digit time is entered incorrectly, the time will NOT be updated. You will hear a long beep and the controller will exit Programming Mode and return to Normal Mode.

- The Mode LED will turn green



Changing the Door Number

1) Enter Programming Mode

- Mode LED will turn orange



2) Press "61" to enter **Menu 61**



- The Mode LED will turn red



3) Enter the 2-digit Door Number between 01 and 08, this will be the new door number.



If the Door Number is entered correctly, the Door Number will be updated and the controller will return to Programming Mode.

- The Mode LED will turn orange



If the Door Number is entered incorrectly, the Door Number will NOT be updated. You will hear a long beep and the controller will exit Programming Mode and return to Normal Mode.

- The Mode LED will turn green



Appendix A



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-115 must be in Normal Mode otherwise this will not work.

Make sure that the Mode LED is green before proceeding.

- 1) Remove power from the AC-115
- 2) Press the REX button
- 3) Apply power to the unit with the REX button pressed
- 4) Release the REX button

You now have 60 seconds to program an new Programming Code into the controller using the initial default code 1234, before the controller reverts to the existing code.

- 5) Enter Programming Mode using the default Programming Code 1234
- 6) Use menu “21” to set a new Programming Code

Appendix B

A large, light gray square with a white letter 'B' centered inside it.

Replacing a lost Normal / Secure Code

In the event that your Normal / Secure Code is lost and you are locked in Secure Mode, complete 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 otherwise this will not work.

Make sure that the Mode LED is red before proceeding.

- 1) Remove power from the AC-115
- 2) Press the REX button
- 3) Apply power to the unit with the REX button pressed
- 4) Release the REX button

You now have 60 seconds to enter the default Secure Code 3838 to re-enter into Normal Mode.

Once in Normal Mode you have the ability to enter Programming Mode and create a new Secure Code. See “Menu 22” to set a new Normal / Secure Code.

Technical Support

International Web Site:

<http://www.rosslare.com.hk/support/>

Asia, Australia, & South America:

Rosslare Enterprises Ltd.
905-912 Wing Fat Industrial Bldg.,
12 Wang Tai Road, Kowloon Bay,
Hong Kong.

Tel: (852) 2795 5630
Fax: (852) 2795 1508
E-mail: info@rosslare.com.hk

Europe, Russia, Middle East, Africa:

Rosslare Security Products S.r.l
Via F.lli Gabba 5, 20121 Milano, Italy

Tel: (39) 0382 24800
Fax: (39) 0382 24800
E-mail: marco.rogante@tin.it
rosslarect@aol.com

United States and Canada:

Rosslare NAPDC
200 East Howard Street, Suite 238,
Des Plaines, IL 60018
USA

Tel: (847) 827 6330
Fax: (847) 827 6433
E-mail: support@rosslare.net