

AYC-F/Gx4 Series

Convertible Backlit PIN & Prox Readers/Controllers

Installation and Programming Manual

Models:

AYC-F54

AYC-F64

AYC-G54

AYC-G64



AYC-Fx4



AYC-Gx4

ROSSLARE
SECURITY PRODUCTS

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Table of Contents

1. Introduction	9
1.1 Reader/Controller Types.....	9
1.2 Box Content	10
1.3 Ancillary Equipment	10
2. Technical Specifications.....	11
3. Installation	13
3.1 Mounting	13
3.2 Wiring	14
3.2.1 Wiring the Unit as a Reader	14
3.2.2 Wiring the Unit as a Controller	15
4. Reader Operation	18
4.1 Standby Mode	18
4.2 Programming as a Reader	18
4.2.1 Entering Programming Mode.....	19
4.2.2 Exiting Programming Mode	20
4.2.3 Selecting Keypad Transmission Format	20
4.2.4 Selecting Proximity Card Transmission Format	26
4.2.5 Changing the Programming Code	28
4.2.6 Changing the Facility Code	28
4.2.7 Return to Factory Default Settings	29
4.2.8 Replacing a Lost Programming Code	29
5. Controller Operation.....	30
5.1 Normal, Secure, and Master Users.....	30
5.2 Modes of Operation	31

Table of Contents

5.2.1	Normal Mode	31
5.2.2	Bypass Mode	31
5.2.3	Secure Mode	32
5.2.4	Changing the Modes of Operation	32
5.3	Auxiliary Input and Output.....	34
5.4	Door Alarms	34
5.5	Internal Case and Back Tamper	34
5.6	Lockout Feature (Keypad/Card Tamper)	34
5.7	REX Function	35
5.8	Secured Intelligent Power Supply	35
5.9	Programming as a Controller	36
5.9.1	Entering Programming Mode.....	37
5.9.2	Exiting Programming Mode	37
5.9.3	Changing Lock Strike Code	37
5.9.4	Changing Auxiliary Code	38
5.9.5	Changing the Programming Code	39
5.9.6	Changing the Normal/Secure Code	40
5.9.7	Changing the Normal/Bypass Code and Door Chime Settings	40
5.9.8	Setting Fail Safe/Secure Operation, Tamper Siren and Lock Strike Release Time	41
5.9.9	Defining the Auxiliary Input and Output	42
5.9.10	Setting the Lockout Feature	48
5.9.11	Enrolling Primary and Secondary Codes	49
5.9.12	Deleting Primary and Secondary Codes	53
5.9.13	Relay Codes Assignment.....	55
5.9.14	PIN Code Length/Factory Default Settings.....	58
5.9.15	Replacing a Lost Programming Code	58
5.9.16	Replacing a Lost Normal/Secure Code.....	59

Table of Contents

A. Declaration of Conformity.....	60
B. Limited Warranty	61

List of Figures

Figure 1: Drilling and Mounting Template	13
Figure 2: Controller Application Wiring Diagram	16
Figure 3: Controller Wiring – Using the Internal Power	17
Figure 4: Controller Wiring – Using the External Power	17

List of Tables

Table 1: Wiring the Reader to the Controller	14
Table 2: Wiring the Unit as a Controller.....	15
Table 3: Reader Programming Menus.....	19
Table 4: Controller Programming Menu	36
Table 5: Quick Reference Guide for Auxiliary Mode Setting.....	43

Notice and Disclaimer

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

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

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

1. Introduction

The AYC-F/Gx4 series are waterproof, standalone, convertible integrated readers and controllers.

These units automatically determine whether to function as a reader or as a controller. If the unit is connected to a standard access control unit, then it functions as a reader. If the unit is connected to a Rosslare secured intelligent power supply such as the PS-A25T, PS-C25T or PS-C25TU, it functions as a secured controller.

For information on how the unit functions as a reader, see Chapter 4.

For information on how the unit functions as a controller, see Chapter 5.

All of the units are suitable for indoor or outdoor mounting.

As a controller, the unit accepts up to 500 users and allows entry via a personal identification number (PIN) and/or by presenting a proximity card. The PIN code length for the controller has several options. The PIN code length can be a set number of 4, 5, or 6 digits or it can be a 4- to 8-digit option.

1.1 Reader/Controller Types

The different types of units described in this manual are:

- AYC-F54 – PIN only
- AYC-F64 – PIN and proximity card
- AYC-G54 – Mullion-Box PIN only
- AYC-G64 – Mullion-Box PIN and proximity card

	Backlight	Keypad Type	Proximity
AYC-F54	✓	3X4 Standard	✗
AYC-F64	✓	3X4 Standard	✓
AYC-G54	✓	2X6 Mullion	✗
AYC-G64	✓	2X6 Mullion	✓

1.2 Box Content

Before beginning, verify that all of the following is in the box. If anything is missing, please report the discrepancy to your nearest Rosslare office.

- One AYC-F/Gx4
- Installation kit
- Installation and operating instructions

1.3 Ancillary Equipment

The following equipment is required to complete your installation:

- When functioning as a reader:
Compatible host controller (not supplied) – UL listed access control unit (such as model AC-215U)
- When functioning as a controller:
A secured intelligent power supply – such as the PC-25T, PS-A25T, PS-C25T, or PS-C25TU secure controllers.

This unit connects to the following:

- Electric lock strike mechanism or a magnetic lock device, which implements fail safe (power to lock) or fail secure (power to open) functions
- Request-to-Exit (REX) button – normally open type. Switch is closed when pressed
- Door monitor switch

Rosslare accessories can be found on www.rosslaresecurity.com.

2. Technical Specifications

Specifications	AYC-F54	AYC-F64	AYC-G54	AYC-G64
Electrical Characteristics				
Power Supply Type	Linear (recommended)			
Operating Voltage Range	5 to 16 VDC (when used as a controller, provided by the secured intelligent power supply)			
Input Current Standby (12 VDC)	75 mA	105 mA	75 mA	105 mA
Input Current Max (16 VDC)	110 mA	140 mA	110 mA	140 mA
LED Control Input	Dry contact N.O.			
Tamper Output	Open collector, active low, 32 mA max sink current			
Cable Distance to Host Controller	Up to 150 m (500 ft) using an 18 AWG cable			
Max. Proximity Card Read Range*	N/A	80 mm (3.2 in.)	N/A	80 mm (3.2 in.)
Proximity Card Modulation	N/A	ASK at 125 kHz	N/A	ASK at 125 kHz
Proximity Card Compatibility	N/A	EM cards	N/A	EM cards
Card Transmit Format (Reader)	N/A	Wiegand 26-Bit or Clock & Data	N/A	Wiegand 26-Bit or Clock & Data
Keypad Transmit Format (Reader)	Programmable PIN code formats			
LED Indicators	Two tri-colored LEDs			
Communication	Data1/C1, Data0/C2 – open collector, 5 V termination			

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

Technical Specifications

Specifications	AYC-F54	AYC-F64	AYC-G54	AYC-G64
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Environmental Characteristics

Operating Temp. Range	-35°C to 66°C (-31°F to 151°F)		
Operating Humidity Range	0 to 95% (non-condensing)		
Outdoor Usage	Weather-resistant, meets IP65, epoxy-potted, suitable for outdoor use		

Physical Characteristics

Dimensions (Height x Width x Depth)	120 x 76 x 21 mm (4.7 x 3.0 x 0.8 in.)	137 x 44 x 21 mm (5.4 x 1.7 x 0.8 in.)
Weight	215 g (7.6 oz)	160 g (5.6 oz)

3. Installation



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

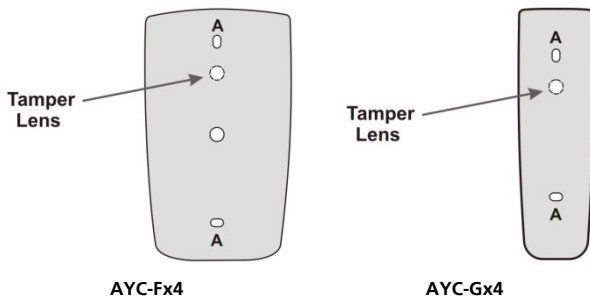
3.1 Mounting

Before starting, select the location to mount the unit. This location should be at shoulder height.

To mount the unit:

1. For wall mounting, use the included mounting template as a guide for drilling holes for mounting screws and wiring (Figure 1). For US Gang Box mounting, no drilling is necessary.

Figure 1: Drilling and Mounting Template



2. Insert the wall plugs into both mounting holes.
3. Drill a 10-mm (7/16") hole for the cable. If the surface is metal, place a grommet or electrical tape around the edge of the hole.
4. At the bottom of the unit's case, remove the screw.
5. Carefully remove the snap-off front cover of the unit to reveal the screw holes.

6. Insert the unit's cable wire into the cable hole and wire the unit as described in Section 3.2.
7. Screw the unit to its mounting location or US gang box.
8. Carefully re-attach the front cover of the unit.
9. Secure the front cover by using the supplied security Torx screw. A Torx security screw tool is provided to tighten the security Torx screw.

3.2 Wiring

The unit is supplied with a 6-conductor 150-cm (60-in.) pigtail with exposed wires coated with solder.

3.2.1 Wiring the Unit as a Reader

If you connect the unit to a standard access control unit, it automatically functions as a reader.

To connect the unit as a reader (to a controller):

1. Select the appropriate connections according to Table 1.

Table 1: Wiring the Reader to the Controller

Wire Color	Function
Black/Shield	Ground (+)
Red	Vin (-)
Green	Data 0/Data (D0)
White	Data 1/Clock (D1)
Brown	LED control
Purple	Tamper

2. Prepare the controller cable by cutting the cable jacket back 3.2 cm (1¼") and strip the wire 1.3 cm (½").
3. Splice the reader's pigtail wires to the corresponding controller wires and cover each joint with insulating tape.
4. If the tamper output is being utilized, connect the purple wire to the correct input on the controller.

5. Trim and cover all conductors that are not used.



- The individual wires extending from the reader are color-coded according to the required Wiegand standard.
- When using a separate power supply for the reader, this supply and the controller's power supply must have a common ground. A linear power supply is recommended.
- Attach the cable shield wire on the reader to an earth ground (best), or to a signal ground connection at the panel or power supply end of the cable. This configuration is best for shielding the reader cable from external interference.

3.2.2 Wiring the Unit as a Controller

If you connect the unit to a Rosslare PS-x25x secured power supply, it automatically functions as a controller.

To connect the unit as a controller:

1. Select the appropriate connections according to Table 2.

Table 2: Wiring the Unit as a Controller

Controller	Wire Color	Function	Note
-	Red	+DC Input	Wired to the PS-x25x
+	Black	Ground	Wired to the PS-x25x
C 1	White	Communication	Wired to the PS-x25x
C 2	Green	Communication	Wired to the PS-x25x
AUX. IN	Brown	Auxiliary Input	Wired to input
N/A	Purple	Not in use	N/A



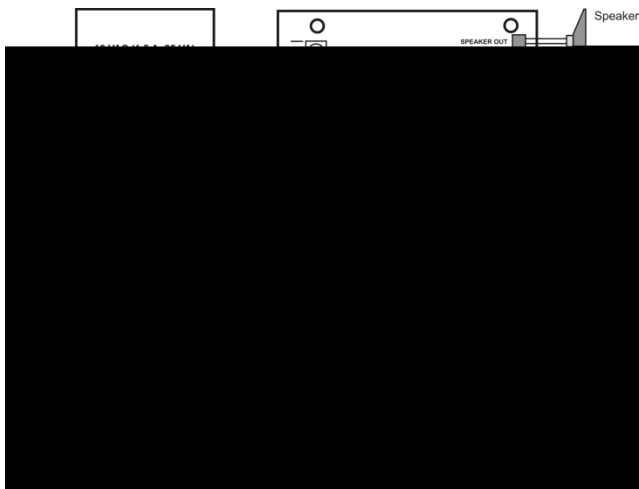
Attach the cable shield wire on the unit to an earth ground (best). You can also attach it to a signal ground connection at the panel or power supply end of the cable. This configuration is best for shielding the controller cable from external interference.

2. Prepare the PS-x25x secured power supply's cable by cutting the cable jacket back 3.2 cm (1¼") and strip the wire 1.3 cm (½").
3. Splice the controller pigtail wires to the corresponding PS-x25x secured power supply's wires and cover each joint with insulating tape.

4. Trim and cover all conductors not used.
5. To connect the unit to the desired power supply option, refer to the relevant wiring diagrams that follow.

Figure 2 shows the wiring for the controller application using a dual relay secured intelligent power supply.

Figure 2: Controller Application Wiring Diagram



Installation

Figure 3 shows the auxiliary output connection using the internal power.

Figure 3: Controller Wiring – Using the Internal Power

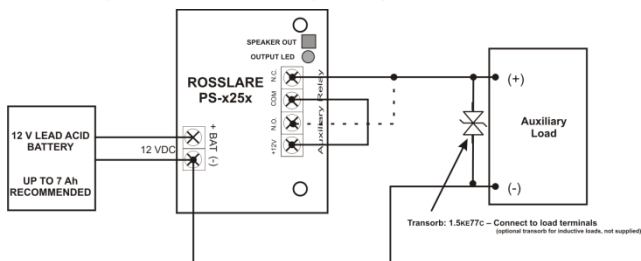
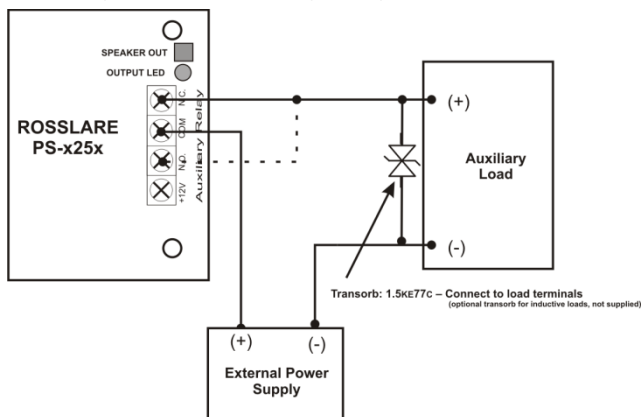


Figure 4 shows the auxiliary output connection using the external power.

Figure 4: Controller Wiring – Using the External Power



4. Reader Operation

The AYC-F/Gx4 series can function both as a reader and as a controller. If the unit is connected to standard access controller, it functions as a reader, indicated by one beep immediately after power-on reset.



Note

The use of a proximity card is for the AYC-F/G64 models only.

4.1 Standby Mode

The default mode of the reader is Standby mode. In Standby mode, the unit is ready to receive data from a presented proximity card or an entered PIN code.

When the reader is in Standby mode, the left LED is red and the right LED is off.



When a proximity card is presented or a keypad entry is being transmitted, the left LED flashes green.



Keypad data can be sent via one of eight keypad transmission formats (see Section 4.2.3).

Proximity cards presented to the reader are always sent in either Wiegand 26-Bit, Clock & Data or, Wiegand Card + PIN format (see Section 4.2.4).

4.2 Programming as a Reader

Programming is done solely via the unit's keypad driven Programming Menu System. During the manufacturing process, certain codes and settings are pre-programmed. These settings are called the default factory settings.

Table 3 shows the names of all the reader programming menus.

Default factory settings are marked by a "*" sign.

Table 3: Reader Programming Menus

Menu Description	Default
1 Selecting Keypad Transmission Format Single Key, 6-Bit Wiegand (Rosslare Format) Single Key, 6-Bit Wiegand with Nibble + Parity Bits Single Key, 8-Bit Wiegand, Nibbles Complemented 4 Keys Binary + Facility Code, Wiegand 26-Bit 1 to 5 Keys + Facility Code, Wiegand 26-Bit 6 Keys BCD and Parity Bits, Wiegand 26-Bit Single Key, 3x4 Matrix Keypad 1 to 8 Keys BCD, Clock & Data	*
2 Selecting Card Transmission Format Wiegand 26-Bit Clock & Data Wiegand Card + PIN	*
3 Changing the Programming Code	1234
4 Changing the Facility Code	0
0 Return to Factory Default Settings	

4.2.1 Entering Programming Mode

To reach the Programming Menu System, the unit must first be placed into Programming mode.

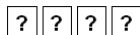
To enter Programming mode:

1. Press # four times.

The left LED turns off and the right LED turns red.



2. Enter your 4-digit Programming code.



If the Programming code is valid, the right LED turns green.



If the Programming code is invalid, you hear a long beep and the reader returns to Standby mode.



- The factory 4-digit Programming code is 1234.
- If a Programming code is not entered within 30 seconds, the unit returns to Standby mode.

4.2.2 Exiting Programming Mode

To exit Programming mode:

1. Press **#** to exit Programming mode at any time.

- You hear a beep.
- The left LED turns red and the right LED turns off.



This indicates that the unit has returned to Standby mode.

Wrong entries may reset the reader back to Standby mode. If no key is pressed for 30 seconds while in Programming mode, the unit exits Programming mode and returns to Standby mode.

4.2.3 Selecting Keypad Transmission Format

There are eight keypad transmission formats.



- Only one keypad transmission format can be active at any one time.
- When using the keypad transmission format "1 to 8 keys BCD, Clock & Data" (Option 8), an additional input is required to specify the number of keys in the PIN code.

To select the keypad transmission format:

1. Enter Programming mode.



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



The left LED turns red.



3. Enter one of the following codes:
- **1** – Single Key, Wiegand 6-Bit (Rosslare Format) (default)
 - **2** – Single Key, Wiegand 6-Bit with Nibble + Parity Bits
 - **3** – Single Key, Wiegand 8-Bit, Nibbles Complemented
 - **4** – 4 Keys Binary + Facility Code, Wiegand 26-Bit
 - **5** – 1 to 5 Keys + Facility Code, Wiegand 26-Bit
 - **6** – 6 Keys BCD and Parity Bits, Wiegand 26-Bit
 - **7** – Single Key, 3x4 Matrix Keypad
 - **8** – 1 to 8 Keys BCD, Clock & Data Single Key



When selecting Option 8, the Program LED turns orange, awaiting an additional key input to select the number of keys.

You hear three beeps.

The system returns to Standby mode.



If an incorrect option number is entered, the reader returns to Standby mode and the keypad transmission format remains unchanged.

4.2.3.1 Single Key, 6-Bit Wiegand (Rosslare Format)

Each key press immediately sends 4 bits with 2 parity bits added – even parity for the first 3 bits and odd parity for the last 3 bits.

0= 1 1010 0 ="A" in Hexadecimal

1= 0 0001 0

2= 0 0010 0

3= 0 0011 1

4= 1 0100 1

5= 1 0101 0

6= 1 0110 0

7= 1 0111 1

8= 1 1000 1

9= 1 1001 0

□= 1 1011 1 ="B" in Hexadecimal

#= 0 1100 1 ="C" in Hexadecimal

4.2.3.2 Single Key, 6-Bit Wiegand Nibble and Parities

Each key press immediately sends 4 bits with 2 parity bits added – even parity for the first 3 bits and odd parity for the last 3 bits.

0 = 0 0000 1	6 = 1 0110 0
1 = 0 0001 0	7 = 1 0111 1
2 = 0 0010 0	8 = 1 1000 1
3 = 0 0011 1	9 = 1 1001 0
4 = 1 0100 1	Ⓐ = 1 1010 0 = "A" in Hexadecimal
5 = 1 0101 0	# = 1 1011 1 = "B" in Hexadecimal

4.2.3.3 Single Key, 8-Bit Wiegand Nibbles Complemented

This option inverts the most significant bits in the message leaving the least 4 significant bits as a Binary Coded Decimal (BCD) representation of the key. The host system receives an 8-bit message.

0 = 11110000	6 = 10010110
1 = 11100001	7 = 10000111
2 = 11010010	8 = 01111000
3 = 11000011	9 = 01101001
4 = 10110100	Ⓐ = 01011010 = "A" in Hexadecimal
5 = 10100101	# = 01001011 = "B" in Hexadecimal

4.2.3.4 4 Keys Binary + Facility Code, Wiegand 26-Bit

This option buffers 4 keys and outputs keypad data with a 3-digit Facility code like a standard 26-bit card output.

The Facility code is set in Programming Menu number four and can be in the range 000 to 255. The factory default setting for the Facility code is 000 (see Section 4.2.6).

The keypad PIN code is 4-digit long and can range between 0000 and 9999. On the fourth key press of the 4-digit PIN code, the data is sent across the Wiegand Data lines as binary data in the same format as a 26-bit card.

If Ⓐ or # are pressed during PIN code entry, the keypad clears the PIN code entry buffer, generate a beep and is ready to receive a new 4-digit keypad PIN code.

If the entry of the 4-digit keypad PIN code is disrupted and no number key is pressed within 5 seconds, the keypad clears the PIN code entry buffer, generates a beep, and is ready to receive a new 4-digit keypad PIN code.

(EP) FFFF FFFF AAAA AAAA AAAA AAAA (OP)

Where:

EP = Even parity for first 12 bits

OP = Odd parity for last 12 bits

F = 8-bit Facility code

A = 16-bit code generated from keypad

4.2.3.5 1 to 5 Keys + Facility Code, Wiegand 26-Bit

Option 5 buffers up to 5 keys and outputs keypad data with a Facility code like a 26-Bit card output.

The Facility code is set in Programming Menu number four and can be in the range 000 to 255. The factory default setting for the Facility code is 000 (see Section 4.2.6).

The keypad PIN code can be one to five digits in length and can range between 1 and 65,535. When entering a keypad PIN code that is less than 5 digits in length, # key must be pressed to signify the end of PIN code entry. For keypad PIN codes that are 5 digits in length, on the fifth key press of the 5-digit PIN code, the data is sent across the Wiegand Data lines as binary data in the same format as a 26-Bit Card.

If  is pressed during PIN code entry or a PIN code greater than 65,535 is entered, the keypad clears the PIN code entry buffer, generates a beep, and is ready to receive a new 5-digit keypad PIN code.

If the entry of the 1- to 5-digit keypad PIN code is disrupted and a number key or # is not pressed within 5 seconds, the keypad clears the PIN code entry buffer, generates a medium length beep and is ready to receive a new 1- to 5-digit keypad PIN code.

(EP) FFFF FFFF AAAA AAAA AAAA AAAA (OP)

Where:

EP = Even parity for first 12 bits

OP = Odd parity for last 12 bits

F = 8-bit Facility code

A = 16-bit code generated from keypad

4.2.3.6 6 Keys BCD and Parity Bits, Wiegand 26-Bit

Option 6 sends buffer of 6 keys, adds parity and sends a 26-Bit BCD message. Each key is a four bit equivalent of the decimal number.

The keypad PIN code must be 6 key presses long. On the sixth key press of the 6-digit PIN code, the data is sent across the Wiegand Data lines as a BCD message.

If the entry of the 6-digit keypad PIN code is disrupted and no number key is pressed within 5 seconds, the keypad clears the PIN code entry buffer, generates a medium length beep and is ready to receive a new 6-digit keypad PIN code.

(EP) AAAA BBBB CCCC DDDD EEEE FFFF (OP)

Where:

EP = Even parity for first 12 bits

OP = Odd parity for last 12 bits

A = The first key entered

D = Fourth key entered

B = Second key entered

E = Fifth key entered

C = Third key entered

F = Sixth key entered

4.2.3.7 Single Key, 3x4 Matrix Keypad

This unique mode is intended to let the host controller scan the keypad while still keeping the proximity card readers Wiegand 26-Bit or Clock & Data formats active.

An optional interface board must be used between the AYC-F/Gx4 and the host system. Each key press is immediately sent on DATA0 as an ASCII character at a baud rate of 9600 bits per second.

When a key is pressed DATA1 is pulled "low" until the key is released at which point DATA1 is set to "high". This allows the controller to detect the duration of the key press.

An MD-P64 interface unit outputs the data received to 7 outputs emulating a keypad. The interface unit does not affect any data that it receives from the proximity reader whether it is Wiegand 26-Bit or Clock & Data.

Key pressed = ASCII Value

0 = '0' (0x30 hex)	6 = '6' (0x36 hex)
1 = '1' (0x31 hex)	7 = '7' (0x37 hex)
2 = '2' (0x32 hex)	8 = '8' (0x38 hex)
3 = '3' (0x33 hex)	9 = '9' (0x39 hex)
4 = '4' (0x34 hex)	␣ = '*' (0x2A hex)
5 = '5' (0x35 hex)	# = '#' (0x23 hex)

4.2.3.8 1 to 8 Keys BCD, Clock & Data

Buffers up to 8 keys and outputs keypad data without a Facility code like standard Clock and Data card output.

The keypad PIN code can be one to eight digits in length. The PIN code length is selected while programming the reader for Option 8. The reader transmits the data when it receives the last key press of the PIN code. The data is sent across the two data output lines as binary data in Clock & Data format.

If ␣ or # is pressed during PIN code entry, the keypad clears the PIN code entry buffer, generates a beep, and is ready to receive a new keypad PIN code.

If the entry of the digit keypad PIN code is disrupted and a number key or # is not pressed within 5 seconds, the keypad clears the PIN code entry buffer, generates a medium length beep, and is ready to receive a new keypad PIN code.

4.2.4 Selecting Proximity Card Transmission Format

There are three proximity card transmission formats.

To select the proximity card transmission format:

1. Enter Programming mode.



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



The left LED turns red.



3. Enter one of the following codes:

- **1** – Wiegand 26-Bit
- **2** – Clock & Data
- **3** – Wiegand Card + PIN

You hear three beeps.

The system returns to Standby mode.



4.2.4.1 "Wiegand Card + PIN" Transmission Format

This unique mode is intended to let host controllers get card and keypad data simultaneously. This option overrules the selected Keypad Transmission Format and sends the keypad data as described below.

After a card is presented to the unit, the program LED starts to flash in green and indicates that the unit is waiting for the PIN code. If the entry of 1- to 5-digit keypad PIN code is disturbed and a number key or # is not pressed within 5 seconds, the keypad clears the card buffer and the PIN code entry buffer, generates a medium length beep, and be ready to receive a new card.

The keypad PIN code can be one to five digits in length in the range of 0 to 99,999. When entering a keypad PIN code, # must be pressed to signify the end of the PIN entry. When pressing #, the data is sent by the Wiegand data lines. If the * key is pressed, the keypad clears the card buffer and the PIN code entry buffer, generates a medium length beep, and is ready to receive a new card.

The AYC-F/Gx4 output card data comes in Wiegand 26-Bit with the following keypad data in Wiegand 26-Bit format:

- Card Data: (EP) AAAA AAAA AAAA BBBB BBBB BBBB (OP)

Where:

- EP = Even parity for first 12 A bits
- OP = Odd parity for last 12 B bits

- PIN Data: (EP) 0000 AAAA BBBB CCCC DDDD EEEE (OP)

Where:

A = The first key entered

D = Fourth key entered

B = Second key entered

E = Fifth key entered

C = Third key entered

EP = Even parity for first 12 bits

OP = Odd parity for last 12 bits

If the PIN code is less than 5 digits, all the most significant nibbles are filled with 0.

Example: (EP) 0000 0000 0000 0000 AAAA BBBB (OP)

Where:

A = The first key entered

B = Second key entered

EP = Even parity for first 12 bits

OP = Odd parity for last 12 bits

4.2.5 Changing the Programming Code

To change the Programming code:

1. Enter Programming mode.



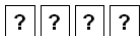
2. Press **3** to enter Menu 3.



The left LED turns red.



3. Enter the new 4-digit Programming code.



You hear three beeps.

The system returns to Standby mode.



Note

- The Programming code cannot be erased, meaning the code 0000 is invalid and does not erase the Programming code.
- The factory default 4-digit Programming code is 1234.

4.2.6 Changing the Facility Code



Note

- The Facility code can be in the range of 000 to 255.
- The default Facility code is 0

To change the Facility code:

1. Enter Programming mode.



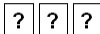
2. Press **4** to enter Menu 4.



The left LED turns red.



3. Enter the new 3-digit Facility code.



You hear three beeps.

The system returns to Standby mode.



4.2.7 Return to Factory Default Settings



You must be very careful before using this command! This erases the entire memory and return all codes to their factory default setting.

To return to factory default settings:

1. Enter Programming mode.



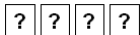
2. Press **0** to enter Menu 0.



Both LEDs flash red.



3. Enter your 4-digit Programming code.



If the Programming code is valid, all memory is erased. You hear three beeps and the reader returns to Standby mode.

If the Programming code is invalid, you hear a long beep and the reader returns to Standby mode without erasing the memory of the reader.

4.2.8 Replacing a Lost Programming Code

In the event that the Programming code is forgotten, the unit can be reprogrammed in the field.

To replace a lost Programming code:

1. Remove power from the reader.
2. Activate tamper by removing the reader from the wall or removing the reader's case.
3. Apply power to the reader.
4. You now have 10 seconds to enter Programming mode using the factory default Programming code 1234.

5. Controller Operation

The AYC-F/Gx4 can function both as a reader and as a controller. If the unit is connected to Rossflare's secured intelligent power supply, it functions as a controller indicated by two beeps immediately after power-on reset.

The Lock Strike and Auxiliary outputs, as well as the REX input, are not located on the unit, eliminating the possibility of unauthorized entry to the restricted area.



The use of a proximity card is for the AYC-F/G64 models only.

5.1 Normal, Secure, and Master Users

The units accept up to 500 users and provide entry via the use of PIN codes and/or proximity cards. Each user is provided with two code memory slots, Memory Slot 1 (Primary code) and Memory Slot 2 (Secondary code).

The PIN code length has several options. The PIN code length can be a set number of 4, 5 or 6 digits or it can be a 4-8 digits option. When choosing the 4- to 8-digit option, please note that you should either enter zeros before the code, or press pound at the end (for example, if your code is 12345, enter either **00012345** or **12345#**).



Entering a code refers to either PIN or card depending on the model you have.

The way in which the two memory slots are programmed determines a user's access level and also determines the way in which the unit grants access in its three modes of operation. There are three user levels:

- Normal

A Normal user only has a Primary code and is only granted access when the unit is in Normal or Bypass mode.

- Secure

A Secure user must have a Primary and Secondary code programmed; the two codes must not be the same. The Secure user can gain access when the unit is in any of its three modes of operation. In Normal mode, the Secure user must use the Primary code to gain entry. In Secure mode, the Secure user must present both the Primary and Secondary codes to gain entry.

- Master

A Master user must have both Primary and Secondary codes programmed with the same PIN code. The Master user can gain access during any mode of operation by presenting the PIN code and/or proximity card one time to the controller. (The Master user is convenient but is less secure than a Secure user.)

5.2 Modes of Operation

There are three modes of operation:

5.2.1 Normal Mode

The left LED is green.



Normal mode is the default mode. In Normal mode the door is locked until a Primary code is presented to the controller. Special codes such as Lock Strike code and Auxiliary code are active in Normal mode. See Sections 5.9.3 and 5.9.4 for more information on the Lock Strike and Auxiliary codes.

5.2.2 Bypass Mode

The left LED is orange.



In Bypass mode, access to the premises is dependent on whether the controller's Lock Strike Relay is programmed for Fail Safe Operation or Fail Secure Operation. When the Lock Strike is programmed for Fail Secure Operation, the door is locked until * is pressed. When the Lock Strike is programmed for Fail Safe Operation, the door is constantly unlocked.

5.2.3 Secure Mode

The left LED is red.



Only Secure and Master users can access the premises in Secured mode.

A Secure user must enter the Primary and Secondary codes to gain entry. After entering the Primary code, the right LED flashes green for 10 seconds, during which the Secondary code must be entered. A Master user only needs to present the code once to gain entry.

5.2.4 Changing the Modes of Operation

5.2.4.1 Changing from Normal Mode to Secure Mode

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

To change from Normal to Secure mode:

1. Enter the Normal/Secure code.



The left LED flashes red.



2. Press # to confirm the mode change.

The left LED stops flashing.



5.2.4.2 Changing from Secure Mode to Normal Mode

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

To change from Secure to Normal mode:

1. Enter the Normal/Secure code.



The left LED flashes green.



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

The left LED stops flashing.



5.2.4.3 Changing from Normal Mode to Bypass Mode

See Section 5.9.7 to create/modify the Normal/Bypass code.

To change from Normal to Bypass mode:

1. Enter the Normal/Secure code.



The left LED flashes orange.



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

The left LED stops flashing.



5.2.4.4 Changing from Bypass Mode to Normal Mode

See Section 5.9.7 to create/modify the Normal/Bypass code.

To change from Bypass to Normal mode:

1. Enter the Normal/Secure code.



The left LED flashes green.



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

The left LED stops flashing.



5.3 Auxiliary Input and Output

For optimum usability in different applications, the controller's auxiliary input and output can be configured in ten different modes of operation (see Section 5.9.9).

5.4 Door Alarms

Door alarms can be generated by connecting the Auxiliary Input to a Door Position Switch. Either Door-Forced or Door-Ajar conditions are supported, as well as, a configurable delay timer for each alarm type. Only one door alarm is enabled at any one time. Door alarms may activate auxiliary output and siren depending on the auxiliary settings.

5.5 Internal Case and Back Tamper

If the unit is forcibly opened or it is removed from the wall, a tamper event is triggered. A tamper output opens sending a to the connected Alarm system (purple wire) the event closes when the tamper is closed (case is re-closed or re-attached to the wall).

The tamper event can also activate the auxiliary output if the controller is in Auxiliary Mode 3 (see Table 5)

5.6 Lockout Feature (Keypad/Card Tamper)

If the controller is presented with wrong codes (PIN or card) consecutively several times, the unit goes into Lockout mode.

When a lockout occurs, the controller's reader and keypad are deactivated so no codes can be entered until the set lockout period expires.

During Lockout mode, the left LED is Off, the right LED flashes red, and the controller beeps every two seconds.

5.7 REX Function

The REX button is connected to Rosslare's secured intelligent power supply. The REX button must be located inside the premises to be secured and is used to open the door without the use of a PIN code. It is usually located in a convenient location, such as inside the door or at a receptionist's desk. The function of the REX button depends on whether the Lock Strike Relay is programmed for Fail Safe Operation or Fail Secure Operation.

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

5.8 Secured Intelligent Power Supply

Rosslare's secured intelligent power supplies are designed for use with Rosslare's secured standalone access control units, including the AYC-F/Gx4 series. The AYC-F/Gx4 units are designed to operate indoors and are installed within the secured premises. The units must be used with one of Rosslare's secured intelligent power supplies, which provides Lock Strike output and REX input. The AYC-F/Gx4 and the power supply communicate through a proprietary Rosslare protocol, which provides a secure link between them. This in turn activates the door lock.

Each power supply unit contains a speaker connection for all sounder abilities.

For more information, see the *PS-x25x Installation Manual*.

5.9 Programming as a Controller

Programming is done solely via the unit's keypad driven Programming Menu System. To reach the Programming Menu System, the unit must first be put into Programming mode (see Section 5.9.1).

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

Table 4 shows the names of all the controller programming menus. It also shows of all the default factory codes and settings for the units.

Table 4: Controller Programming Menu

Menu No.	Menu Description	Default			
		4 digits	5 digits	6 digits	4-8 digits
1	Changing Lock Strike Code	2580	25802	258025	25802580
2	Change Auxiliary Code	0852	08520	085208	08520852
3	Changing Program Code	1234	12341	123412	12341234
4	Changing Normal/Secure Code	3838	38383	383838	38383838
5	Changing Normal/Bypass Code	N/A			
6	Changing Door Release Time	0004			
	Define auxiliary inputs/outputs	2004			
	Set Lockout	4000			
7	Enrolling PIN Code	N/A			
8	Deleting PIN Code	N/A			
9	Code assignment with strike/auxiliary	N/A			
0	Return to factory defaults or change PIN code Length	N/A			

You will find a complete description and instructions for each of the above menu items in the following subsections.

5.9.1 Entering Programming Mode

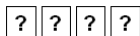
To enter Programming mode:

1. Press **#** twice.

The left LED turns off and the right LED turns red.



2. Enter your 4-digit Programming code.



The right LED turns green.



Note

- The unit must be in Normal mode to enter the Programming mode.
- The factory four digit Programming Code is 1234.
- If a Programming Code is not entered within five seconds, the unit returns to Normal mode.

5.9.2 Exiting Programming Mode

To exit Programming mode:

1. Press **#** twice to exit Programming mode at any time.

You hear 3 beeps.

The left LED turns green and the right LED turns off.



Wrong entries reset the controller back to Normal mode.

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

5.9.3 Changing Lock Strike Code

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

Controller Operation

When the first user is added to the controller, the default Lock Strike code is automatically deleted. Once the code is programmed again, it is not deleted with the entry of additional user codes.

To change the Lock Strike code:

1. Enter Programming mode.



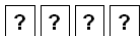
2. Press **1** to enter Menu 1.



The left LED turns red.



3. Enter the new Lock Strike Code 1 code.



You hear three beeps.



The system returns to Normal mode.



- Lock Strike Code 1 does not work in the Secure mode.
- Wrong entries returns the controller to Normal mode.
- Code 0000 erases the Lock Strike Code 1.
- The factory default 4-digit Lock Strike code is 2580.

5.9.4 Changing Auxiliary Code

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

When the first user is added to the controller, the default Auxiliary code is automatically deleted. Once the code is programmed again, it is not deleted with the entry of additional user codes.

To change the Auxiliary code:

1. Enter Programming mode.



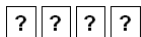
2. Press **2** to enter Menu 2.



The left LED turns orange.



3. Enter the new Auxiliary code.



You hear three beeps.

The system returns to Normal mode.



Note

- Auxiliary code does not work in the Secure mode.
- Wrong entries return the controller to Normal mode.
- Code 0000 erases the Auxiliary code.
- The factory default 4-digit Auxiliary code is 0852.

5.9.5 Changing the Programming Code

To change the Programming code:

1. Enter Programming mode.



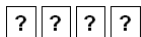
2. Press **3** to enter Menu 3.



The left LED turns green.



3. Enter the new 4-digit Programming code.



You hear three beeps.

The system returns to Normal mode.



Note

- Programming code cannot be erased, meaning the code 0000 is not valid and does not erase the Programming code.
- The factory four-digit Programming code is 1234.

5.9.6 Changing the Normal/Secure Code

To change the Normal/Secure code:

1. Enter Programming mode.



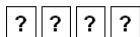
2. Press **4** to enter Menu 4.



The left LED flashes red.



3. Enter the new Normal/Secure code.



You hear three beeps.

The system returns to Normal mode.



Note

- Code 0000 erases the Normal/Secure code.
- This code is disabled if the Auxiliary Input is set to toggle between Normal and Secure access modes.
- The default Normal/Secure code is 3838.

5.9.7 Changing the Normal/Bypass Code and Door Chime Settings

To change the Normal/Bypass code and door chime settings:

1. Enter Programming mode.



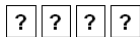
2. Press **5** to enter Menu 5.



The left LED flashes orange.

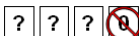
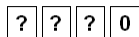
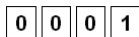
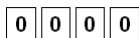


3. Enter the new Normal/Secure code.



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

- Enter the code **0000** to disable both Bypass code and the door chime.
- Enter the code **0001** to disable the Bypass code and enable the door chime.
- Enter any code ending with 0 to enable the Bypass code and disable the door chime.
- Enter a code not ending with 0 to enable the Bypass code and enable the door chime.



You hear three beeps.

The system returns to Normal mode.

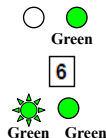


5.9.8 Setting Fail Safe/Secure Operation, Tamper Siren and Lock Strike Release Time

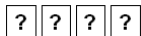
To set the Fail Safe/Secure Operation, Tamper Siren and Lock Strike Release Time:

- Enter Programming mode.
- Press **6** to enter Menu 6.

The left LED flashes green.



3. Construct a code using the following instructions:



- First digit
For Fail Secure Operation, the first digit should be **0**.
For Fail Safe Operation the first digit should be **1**.
- Second digit
Siren Time in minutes (1–9, 0 – disabled)
- Third and fourth digits
Enter the number of seconds (from 1 to 99) that you want the Lock Strike to be released.

For example, 0312 means a Fail Secure Operation consisting of a 3-minute siren and a 12-second Lock Strike release time.

You hear three beeps.

The system returns to Normal mode.



The default value is 0004, which corresponds to Fail Secure operation, no siren, and 4-seconds Lock Strike release time.

5.9.9 Defining the Auxiliary Input and Output

The default auxiliary setting is 2004.

To define the auxiliary input and output:

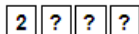
- Enter Programming mode.
- Press **6** to enter Menu 6.



The left LED flashes green.



3. Construct a code using the following instructions:



- Second digit (Auxiliary Mode)

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

- Third and fourth digits (Auxiliary Setting)

Each of the Auxiliary modes has a 2-digit setting that affects how the Auxiliary mode functions (Table 5).

You hear three beeps.

The system returns to Normal mode.



Table 5: Quick Reference Guide for Auxiliary Mode Setting

Aux. Mode	Aux. Input Function	Aux. Output Activated by	Aux. Relay	Aux. Settings (in seconds)
0	AUX REX	Valid code or AUX REX	N.O.	01 to 99 Aux. relay release time
1	Normal/Secure switch	Valid code	N.O.	01 to 99 Aux. relay release time
2	Normal/Secure switch	Star button (*)	N.O.	01 to 99 Aux. relay release time
3	Normal/Secure switch	Tamper event	N.C.	01 to 99 Aux. relay release time
4	Normal/Secure switch	Direct shunt	N.O.	01 to 99 Shunt time
5	Door Monitor	Shunt	N.C.	01 to 99 Maximum shunt time
6	Door Monitor	Forced door	N.C.	01 to 99 Forced delay

Aux. Mode	Aux. Input Function	Aux. Output Activated by	Aux. Relay	Aux. Settings (in seconds)
7	Door Monitor	Door ajar	N.C.	01 to 99 Ajar delay
8	LED control – Green	Valid code	N.O.	01 to 99 Aux. relay release time
9	LED control – Red	Valid code	N.O.	01 to 99 Aux. relay release time

The following subsections describe each Auxiliary mode.

5.9.9.1 Auxiliary Mode 0

Auxiliary input function: Activates the auxiliary output

Auxiliary output activated by: Valid user code, Auxiliary code, and Auxiliary input

For example, in Auxiliary Mode 0, the controller can function as a two-door controller. The auxiliary relay is to be attached to the lock on the second door. The auxiliary setting defines the door open time for the second door. The auxiliary input is to be attached to the REX pushbutton for the second door. The Door Monitor input feature for the second door is not enabled when using this mode.

5.9.9.2 Auxiliary Mode 1

Auxiliary input function: Toggles Normal/Secure modes

Auxiliary output activated by: Valid user code, Auxiliary code

For example, in Auxiliary Mode 1, the controller can function as a two-door controller. The auxiliary relay is to be attached to the lock on the second door. The REX feature for the second door is not enabled when using this mode.

The auxiliary setting defines the door open time for the second door. The auxiliary input can switch the mode of operation of the controller between Normal and Secure modes. By connecting a switch timer or alarm system output to the auxiliary input, the controller can be automatically switched from Normal mode (during office hours) to Secure mode (after office hours).

5.9.9.3 Auxiliary Mode 2

Auxiliary input function: Toggles Normal/Secure modes

Auxiliary output activated by: Bell Button (🔔)

For example, in Auxiliary Mode 2, the auxiliary relay can function as a general purpose time switch that can be activated when 🔔 is pressed. The auxiliary setting establishes for how long the auxiliary relay is to be activated. The auxiliary input can switch the mode of operation of the controller between Normal and Secure modes. By connecting a switch timer or alarm system output to the auxiliary input, the controller can be automatically switched from Normal mode (during office hours) to Secure mode (after office hours).

5.9.9.4 Auxiliary Mode 3

Auxiliary input function: Toggles Normal/Secure modes

Auxiliary output activated by: Alarms

For example, in Auxiliary Mode 3, the auxiliary output is activated if the controller is tampered; that is, if the case is forcibly opened or removed from the wall. The auxiliary input can switch the mode of operation of the controller between Normal and Secure modes. By connecting a switch timer or alarm system output to the auxiliary input, the controller can be automatically switched from Normal mode (during office hours) to Secure mode (after office hours).

5.9.9.5 Auxiliary Mode 4

Auxiliary input function: Toggles Normal/Secure modes

Auxiliary output activated by: direct shunt (explanation below)

For example, in Auxiliary Mode 4, the controller is capable of bypassing an alarm zone by shunting an alarm system's door sensor. The auxiliary output is to be wired in parallel to the door sensor

output. When in use, the auxiliary output is normally open and the door sensor functions normally. When a valid code is entered, the auxiliary relay shunts the door sensor for the duration of the shunt time, as defined by the auxiliary setting. If the door is left open longer than the shunt time, an alarm is triggered.

5.9.9.6 Auxiliary Mode 5

Auxiliary input function: Door Monitor

Auxiliary output activated by: Shunt (explanation below)

For example, in Auxiliary Mode 5, the controller is capable of shunting an alarm system. In this mode, the auxiliary input is to be wired to the magnetic contact switch on the door. The auxiliary relay is wired to the alarm system. Without a valid code entered, the auxiliary relay matches the condition of the magnetic contact switch; if the door opens, the auxiliary relay opens; if the door closes, the auxiliary relay closes. When a valid code is entered, a countdown for maximum shunt time, as defined by the auxiliary setting, begins; if the door is not closed before the maximum shunt time, the alarm is triggered.

5.9.9.7 Auxiliary Mode 6

Auxiliary input function: Door Monitor

Auxiliary output activated by: Forced entry

For example, in Auxiliary Mode 6, the controller can trigger the auxiliary relay if the door has been forced. If the siren settings are enabled, the siren is activated.

In this mode, the auxiliary input functions as a door monitor switch and is wired to the magnetic contact switch on the door. The auxiliary relay is to be wired to the alarm system. If the door is forced open, the controller waits for the period of the forced door delay time to elapse and then it activates the auxiliary relay. The auxiliary setting sets the forced door delay period.

5.9.9.8 Auxiliary Mode 7

Auxiliary input function: Door Monitor

Auxiliary output activated by: Door Ajar (door held open)

For example, in Auxiliary Mode 7, the controller can trigger the auxiliary relay, if it detects that the door has been held open (ajar) too long. In this mode the auxiliary input functions as a door monitor switch and is wired to the magnetic contact switch on the door. The auxiliary relay is to be wired to the alarm system. If the door is opened, the controller waits for the door ajar delay time to elapse and if the door does not close prior to the end of this period, the controller activates the auxiliary relay. The auxiliary setting defines the door-ajar time.

5.9.9.9 Auxiliary Mode 8



Note

This mode controls the door indicator (right LED).

The right LED is not lit when:

- A valid code is entered
- While in Secure mode when waiting for Secondary code.

Auxiliary input function: Green LED control

Auxiliary output activated by: Valid user code, Auxiliary code

For example, in Auxiliary Mode 8, the controller can function as a 2-door controller and also provide LED indicator functionality control. The auxiliary relay is connected to the lock on the second door. The auxiliary setting defines the Door Open time for the second door. The auxiliary input is used to control the door indicator (right LED). If the auxiliary input is open, the right LED flashes green; if the auxiliary input is closed, the right LED flashes red.

5.9.9.10 Auxiliary Mode 9



This mode controls the door indicator (right LED).

The right LED is not lit when:

- A valid code is entered
- While in Secure mode when waiting for Secondary code.

Auxiliary input function: Red LED control

Auxiliary output activated by: Valid user code, Auxiliary code

For example, in Auxiliary Mode 9, the controller can function as a 2-door controller and also provide LED indicator functionality control. The auxiliary relay is connected to the lock on the second door. The auxiliary setting defines the Door Open time for the second door. The auxiliary input is used to control the door indicator (right LED). If the auxiliary input is open, the right LED flashes red; if the auxiliary input is closed the right LED flashes green.

5.9.10 Setting the Lockout Feature

If the controller is presented with wrong codes (PIN or card) consecutively several times, the unit goes into Lockout mode.

When a lockout occurs, the controller keypad and reader are locked so no codes can be entered until the set lockout period expires. During Lockout, the left LED is Off, the right LED flashes red, and the controller beeps every two seconds.

The default setting for the Lockout Feature is 4000 (Lockout Disabled).



Using the lockout feature is highly recommended, especially when selecting to use short PIN code length (4 or 5 digits).

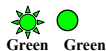
To set the lockout feature:

1. Enter Programming mode.
2. Press **6** to enter Menu 6.

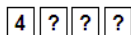


6

The left LED flashes green.



3. Construct a code using the following instructions:



- Second digit
Set the number of wrong code attempts, which causes a Lockout between 0 and 9 attempts.
- Third and fourth digits
Sets the Duration of the lockout, between 00 and 99; the value is multiplied by ten, resulting in 0 to 990 seconds.

5.9.11 Enrolling Primary and Secondary Codes

5.9.11.1 Primary Codes

- Primary codes can only be enrolled to an empty user slot, meaning a slot where there is no existing Primary code.
- Primary codes must be unique, meaning one user's Primary code may not be the same as other user's Primary code.
- Primary codes cannot be the same as any system codes, such as the Normal/Secure code or Lock Strike code.
- Users who hold a Primary code can gain entry only during Normal mode.

5.9.11.2 Secondary Codes

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

5.9.11.3 Enrolling Methods

There are two methods to enroll Primary and Secondary codes:

- Standard Method

The Standard Method is mainly used when the user slot number for the user you wish to program is known. You can program both Primary and Secondary codes using the Standard method (see Section 5.9.11.4).

- Code Search Method

The Code Search Method is mainly used when enrolling a user's Secondary code and the User Slot code is unknown.

The Code Search method only works if a user's Primary code is already enrolled but the Secondary code is not (see Section 5.9.11.5).

5.9.11.4 Enrolling Primary and Secondary Codes using Standard Method

To enroll Primary and Secondary codes using the Standard method:

1. Enter Programming mode.



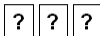
2. Press **7** to enter Menu 7.



The right LED turns orange.



3. Enter the 3-digit user slot number between 001 and 500 that you wish to enroll a Primary or Secondary code to.



For example, User Slot 003 represents User #3.

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



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

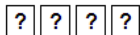


If the selected slot already has a Primary and Secondary code, you hear a long beep and the controller returns to Normal mode.



4. Perform one of the following:

- Enter the 4- to 8-digit PIN code that you want to assign as the Primary or Secondary code for this slot number.
- Present your user card that you want to assign as the Primary or Secondary code for this slot number.



If the PIN or user card presented is valid, the left LED stops flashing and the controller is ready for you to enter the next 3-digit slot number (refer to Step 3) for the slot to which you want to assign a code.

5. Do one of the following:

- Press **#** to move to the next available user slot number.
- Enter another 3-digit user slot number.
- If you do not wish to continue enrolling codes, press **#** twice and the controller returns to Normal mode.

5.9.11.5 Enrolling Secondary Codes using Search Method

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

To enroll secondary codes using the Code Search method:

1. Enter Programming mode.



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

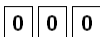


Controller Operation

The right LED turns orange.



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

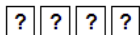


The right LED flashes orange.



4. Perform one of the following:

- Enter the 4- to 8-digit PIN code belonging to the user for whom you wish to add a Secondary code.
- Present the user card belonging to the user for whom you wish to add a Secondary code.



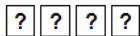
The left LED flashes red.



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

5. Perform one of the following:

- Enter the 4- to 8-digit code to be used as the Secondary code.
- Present the user card to be used as the Secondary code.



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

If the Secondary code is invalid, the controller sounds a long beep, and the unit continues to wait for a valid Secondary code to be entered.

5.9.12 Deleting Primary and Secondary Codes

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

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



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

5.9.12.1 Deleting Primary and Secondary Codes using Standard Method

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

1. Enter Programming mode.



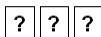
2. Press **8** to enter Menu 8.



The left LED turns red and the right LED turns orange.



3. Enter the 3-digit User Slot code you wish to delete.

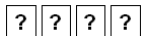


The left LED flashes red indicating the controller is waiting for the Programming code to confirm the deletion.



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

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



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

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

5.9.12.2 Deleting Primary and Secondary Codes using Search Method

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

1. Enter Programming mode.



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



The left LED turns red and the right LED turns orange.



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

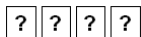


The right LED flashes orange.



4. Perform one of the following:

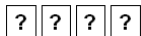
- Enter the 4- to 8-digit PIN code of the Primary code belonging to the user you want to delete.
- Present the user card of the Primary code belonging to the user you want to delete.



The left LED flashes red.



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



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

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

5.9.13 Relay Codes Assignment

When a Primary code is enrolled for any user, the user is authorized to activate the Lock Strike relay. However, different user codes may be set to operate the auxiliary relay instead or operate both the Lock strike and auxiliary relay. Assignment of such codes is achievable for any valid user code entered in the controller.

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

5.9.13.1 Relay Code Assignment using Standard Method

To assign relay code using the Standard method:

1. Enter Programming mode.



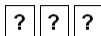
2. Press **9** to enter Menu 9.



The left LED turns green and the right LED turns orange.



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



The left LED flashes green.



- Enter the assignment digit for the current user slot:

- 1** activates the Lock Strike relay only default
- 2** activates the Auxiliary relay only
- 3** activates the Lock Strike and Auxiliary relays

If the assignment code is valid, the left LED stops flashing.

The controller is now waiting for another slot number.

- Do one of the following:

- Press **#** to move to the next available user slot number.
- Enter another 3-digit user slot number.
- If you do not wish to continue enrolling codes, press **#** twice and the controller returns to Normal mode.

5.9.13.2 Relay Code Assignment using Search Method

To assign relay code using the Search method:

- Enter Programming mode.



- Press **9** to enter Menu 9.



The left LED turns green and the right LED turns orange.



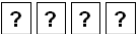
- Enter **000** for user slot access.



The right LED flashes orange.



4. Perform one of the following:

- Enter the 4- to 8-digit PIN code of the Primary code belonging to the user you want to delete. 
- Present the user card of the Primary code belonging to the user you want to delete.

The left LED flashes green.



5. Enter the assignment digit for the current user slot:

- **1** activates the Lock Strike relay only default
- **2** activates the Auxiliary relay only
- **3** activates the Lock Strike and Auxiliary relays

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

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

5.9.14 PIN Code Length/Factory Default Settings



You must be very careful before using this command! Changing the PIN code length also erases the entire memory contents, including all user and special codes, and return all codes to their factory default settings.

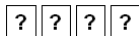
To change the PIN code length:

1. Enter Programming mode.  **Green**
2. Select the desired PIN code length as follows:
 - **00** – Returns to factory defaults and sets a 4-digit code.
 - **05** – Returns to factory defaults and sets a 5-digit code.
 - **06** – Returns to factory defaults and sets a 6-digit code.
 - **08** – Returns to factory defaults and sets a 4- to 8-digit code

Both LEDs flash red.



3. Enter your 4-digit Programming code



If the Programming code is valid, all memory is erased. You hear three beeps and the controller returns to Normal mode.

If the Programming code is invalid, you hear a long beep and the controller returns to Normal mode without erasing the memory contents.

5.9.15 Replacing a Lost Programming Code



The unit 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. Remove power from the power supply unit.
2. Press the REX button on the power supply unit.
3. Apply power to the unit with REX button pressed.

4. Release the REX button.
5. You now have 10 seconds to program a new Programming code into the access control unit using the initial default code 1234, before the controller reverts to the existing code.

5.9.16 Replacing a Lost Normal/Secure Code



The unit must be in Secure mode; otherwise, this does not work. Make sure that the Mode LED is red before proceeding.

To replace a lost Normal/Secure Code:

1. Remove power from the power supply unit.
2. Press the REX button on the power supply unit.
3. Apply power to the unit with the REX button pressed.
4. Release the REX button.
5. You now have 10 seconds to exit Secure mode using the initial default Normal/Secure code 3838.
6. Program a new Normal/Secure code as described in Section 5.9.6.

A. Declaration of Conformity

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

B. Limited Warranty

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

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



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