



Security Door Controls

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E5 Standalone Reader

Quick Start Guide

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1.0 Introduction

The E5 Series single door access control system is fully programmable for standalone or PC managed applications, with up to 3,000 users. In standalone mode, all programming is done directly from the keypad. The E5 series controller is available in two models: the E5P and E5C.

The E5P controller has a built-in HID compatible proximity reader and is used for indoor installations. An optional auxiliary reader may be used for entry/exit applications.

The E5C controller can be used for outdoor installations when used with a weather resistant HID proximity reader, like the SDC 6005B.

2.0 E5 Controller Installation and Wiring

A reliably functioning access control system starts with the proper mounting and wiring of the readers and associated components. Readers must be securely mounted and all wire connections must be securely connected and cable runs must be located away from sources of electrical interference.

2.1 Mounting the Reader:

Use the templates provided to help neatly and securely mount each reader. Remove the protective plastic sheet from the display window after installation has been completed.

2.2 Wiring:

Note: Refer to Page 4 for a general wiring diagram.

All wire connections must be secure and properly insulated. 2 conductor shielded data cable must be used for communication wire runs. Power cables must be a minimum size of 22 awg. All cable types must comply with local building codes. Wiring must be run to avoid sources of EMI interference such as fluorescent lighting fixtures or heavy machinery.

Each reader has a separate relay control module. For maximum security, locate this module inside the secured area. The power supply enclosure for the system is a good choice for module location.

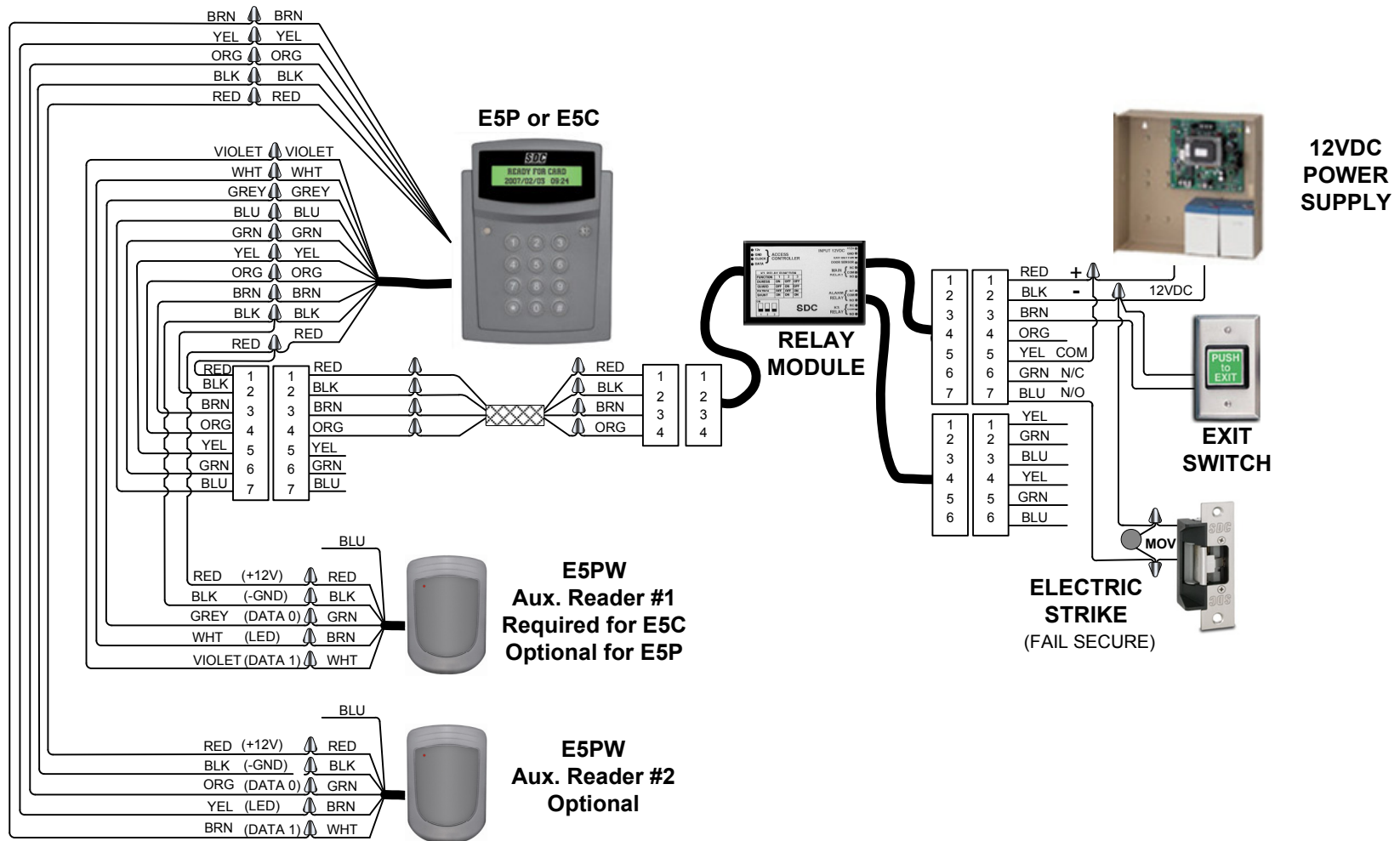
2.3 Power Requirements:

Note: Dual voltage power supplies should be switched to 12VDC prior to wiring.

Each reader requires a clean regulated source of 12VDC power. Make sure that the power supply has the capacity to handle the power requirements of the reader and all other equipment connected to it (eg. slave readers, locks) continuously. If you are powering the lock on the same power supply as the reader, you must use a MOV across the locks' coil leads to protect the readers and relay module from spikes and noise.

All wire must be of the proper gauge for the length of the wire run. Excessive voltage drop will impair the operation and reliability of the installation. Cabling must be in compliance with all regulations and building codes.

Typical E5 Controller Wiring Diagram Standalone Operation



4.0 Quick Start Programming

The following example will:

- 1.) Program the E5 Controller to operate in standalone mode. This should be done before adding any users or modifying any settings,
- 2.) Set the Lock Relay activation time to 3 seconds, and
- 3.) Enroll a single card, or a batch of sequential cards, into the reader.

Verify that all wire connections that apply to your application are made per the sample wiring diagram (See Page 4). Any unused wire leads must be individually isolated.

	FUNCTION	PROCEDURE	DISPLAY WILL SHOW
1.)	Enter Programming Mode	Press and Hold the '#' for 3 seconds	0. CHECK VERSION 1. SETUP
	Enter Setup	Press "1"	PASSWORD:
	Enter Main Password (Factory default)	Enter "1111#"	1. ENROL 2. PASSWD 3. TIMER 4. SYSTEM
	Select System Menu	Press "4"	1. ALARM 2. MODE 3. COMM 4. OTHER
	Select Mode Menu	Press "2"	1. STRIKE 2. DI 3. DISP 4. TEST
	Select Operation Mode Menu (Hidden option)	Press "5"	OP_MODE:ACS_MODE Press'1' -- → CHANGE
	Change Operation to Standalone Mode	Press "1"	OP_MODE:STA_MODE Press'1' -- → CHANGE
2.)	Return to Setup Main Menu	Press "***"	1. ENROL 2. PASSWD 3. TIMER 4. SYSTEM
	Select Timer Sub Menu	Press "3"	1. STRIKE 2. ALARM 3. DURESS 4. DOOR
	Select Strike Sub Menu	Press "1"	CURRENT: 5 SEC NEW:
	Enter a new Unlock Time (1 to 255 sec., Default = 5 sec)	Enter "3#"	CURRENT: 3 SEC NEW:
	Return to Setup Main Menu	Press "**"	1. ENROL 2. PASSWD 3. TIMER 4. SYSTEM
3.)	Select the Card Enrollment Menu	Press "1"	1. ACCESS CARD 2. PATROL CARD
	Select Access Card Menu	Press "1"	1. S_ADD 2. S_DEL 3. B_ADD 4. B_DEL
	<i>For a Single Card,</i>		
	Add a Single Card	Press "1"	AMOUNT : xxxx CARD NO:
	Enroll the Card	Present the Card to the Reader	AMOUNT : xxxx CARD NO: 12345678
<i>For a Batch of Sequential Cards,</i>			
Select to Add/Delete a Batch of Sequential Cards	Press "3" (Add), or Press "4" (Delete)	AMOUNT : xxxx CARD NO:	
Enroll the 1 st Card in the Sequence	Present the 1 st Card in the Sequence to the Reader	CARD NO: 12345678 TOTAL:	
Enter the Total Number of Sequential Cards	Enter "nn#" (nn = No. of cards)		

Press '#' to exit programming mode. The reader is now ready for use. To unlock the door, present an enrolled card to the reader. At this time, it is recommended that the main programming password be changed from the factory default setting. Refer to section 5.4 *Changing the Main Password* of the full programming manual.



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Full Programming Guide

5.0 Programming Features

5.1 Default Settings

Description	Factory Default	Setting Pg #
Main Passw ord	1111	6
Stike Relay Active Time	5 sec	10
Forced Entry Alarm Function	Disabled	8
Door Ajar Alarm Function	Disabled	9
Alarm Relay Activates on Door Ajar	Disabled	9
Extend Door Open Time on Door Ajar	Disabled	10
Card + PIN Mode	Disabled	11
Auxiliary Reader Keypad Active	Disabled	11
Beeper Key Tones	Enabled	12
Alarm Relay Active Time	10 sec	10
Door Ajar Timer	20 sec	10
Request-to-Exit Button Loop Type	Normally Open	12
Door Contact Loop Type	Normally Open	8

5.2 Accessing Programming Mode

In order to access any of the E5 programming features, you must first enter programming mode. The following steps will allow you to access the Main Setup menu:

FUNCTION	PROCEDURE	DISPLAY WILL SHOW
Enter Programming Mode	Press and Hold the '#' for 3 seconds	0. CHECK VERSION 1. SETUP
Enter Setup	Press "1"	PASSWORD:
Enter Main Password (Factory default = 1111)	Enter Existing Password + "#"	1. ENROL 2. PASSWD 3. TIMER 4. SYSTEM

NOTE: The E5 will automatically exit programming mode after 25 seconds of inactivity.

5.3 Standalone Operation

If the E5 is to be used without a PC connection, it must be placed in Standalone Operation Mode. This must be done before any cards are enrolled, or any settings are modified.

FUNCTION	PROCEDURE	DISPLAY WILL SHOW
Main Setup Menu	Refer to <i>Section 5.2</i>	1. ENROL 2. PASSWD 3. TIMER 4. SYSTEM
Select System Menu	Press "4"	1. ALARM 2. MODE 3. COMM 4. OTHER
Select Mode Menu	Press "2"	1. STRIKE 2. DI 3. DISP 4. TEST
Select Operation Mode (Hidden option)	Press "5"	OP_MODE:ACS_MODE Press '1' --> CHANGE
Change Operation to Standalone Mode	Press "1"	OP_MODE:STA_MODE Press '1' --> CHANGE

Press "#" to exit programming or the E5 will automatically exit programming mode after 25 seconds of inactivity.

5.4 Changing the Main Password

FUNCTION	PROCEDURE	DISPLAY WILL SHOW
Main Setup Menu	Refer to <i>Section 5.2</i>	1. ENROL 2. PASSWD 3. TIMER 4. SYSTEM
Select Password Menu	Press "2"	1. MAIN 2. DURESS 3. GUARD 4. CLOCK
Select Main Password Menu	Press "1"	CURRENT: XXXX NEW:
Set New Main Password	Enter a new 4-digit password + "#"	

After completing the last step, the E5 will automatically exit programming mode. It is highly recommended that the new main password be logged and stored in a secure location.

5.5 Card Management

Before registering any cardholders, the system administrator must decide how access will be granted to cardholders. The available access modes are:

- 1.) Card only (default mode) – Presenting a registered card or key fob to the reader will unlock the door.
- 2.) Card + PIN – After presenting a valid card or key fob, cardholders will be required to enter a 4-digit PIN as a secondary form of authentication.

Note: Both modes can be used simultaneously. For more information on enabling the Card + PIN function, refer to *Section 5.9*

Up to 3,000 user cards can be registered in the E5. Depending on how many cards you need to program, you can simply add them one at a time, or use the batch process to add a pre-selected quantity of sequential cards.

5.5.1 Adding/Deleting a Single Cardholder

To add or delete a single card,

FUNCTION	PROCEDURE	DISPLAY WILL SHOW
Main Setup Menu	Refer to <i>Section 5.2</i>	1. ENROL 2. PASSWD 3. TIMER 4. SYSTEM
Select the Enrollment Menu	Press "1"	1. ACCESS CARD 2. PATROL CARD
Select Access Card Menu	Press "1"	1. S_ADD 2. S_DEL 3. B_ADD 4. B_DEL
Select Add or Delete a Single Card	Press "1" (Add), OR Press "2" (Delete)	AMOUNT : xxxx CARD NO:
Enroll/Delete the Card	Present the Card to be added/ deleted to the Reader	AMOUNT : xxxx CARD NO: 12345678

The display will momentarily show the card number, and the cardholder AMOUNT will increase by one (when adding a card), or decrease by one (when deleting a card).

View the Card PIN	Present the SAME Card to the Reader	AMOUNT : xxxx PASSWORD:
Modify the PIN (Optional, Required for PIN Mode Only)	Press '#' (No PIN used), OR Enter a New 4-digit PIN + '#'	AMOUNT : xxxx CARD NO:

Present another card to be added/deleted, or Press "#" to exit programming.

5.5.2 Adding/Deleting a Batch of Cards

To add or delete a batch of sequential cards,

FUNCTION	PROCEDURE	DISPLAY WILL SHOW
Main Setup Menu	Refer to <i>Section 5.2</i>	1. ENROL 2. PASSWD 3. TIMER 4. SYSTEM
Select the Enrollment Menu	Press "1"	1. ACCESS CARD 2. PATROL CARD
Select Access Card Menu	Press "1"	1. S_ADD 2. S_DEL 3. B_ADD 4. B_DEL
Select to Add/Delete a Batch of Sequential Cards	Press "3" (Add), or Press "4" (Delete)	AMOUNT : xxxx CARD NO:
Present the 1 st Sequential Card to be Added/Deleted	Present the Card to the Reader	CARD NO: 12345678 TOTAL:
Enter the Total Number of Sequential Cards to be Added/Deleted	Enter "xx#" (xx=number of cards)	

After completing the last step, the reader will process the cards, and automatically exit programming mode.

5.5.3 Viewing Card Numbers

The E5 allows you to verify a card or key fob number. Keeping track of card numbers allows for the deletion of lost cards, or cards not returned by a terminated cardholder. It is highly recommended that the system administrator record all card information for future use.

To view a card number,

FUNCTION	PROCEDURE	DISPLAY WILL SHOW
	Press and Hold the '#' for 3 sec.	0. CHECK VERSION 1. SETUP
Select the Check Card No. Option	Press "3"	CARD PLEASE
View the Card Number	Present the Card to the Reader	CARD PLEASE 000000 12345678

The 8-digit card number will be displayed for 25 seconds. Present another card to view, press "#" to exit, or allow the unit to timeout.

5.6 Alarm Relay Functions

An auxiliary alarm relay is provided on the E5 relay module. This alarm relay may be activated by the following events:

- 1.) Force Entry (when enabled) – This function activates when the door contact detects an unauthorized access (without a card).
- 2.) Door Ajar (when enabled) – This function activates when the door is opened longer than the preset door

5.6.1 Door Contact Loop Configuration

A door contact is required for proper operation of the forced entry and door ajar functions. The installer may modify the contact loop type to suit their requirements. (Default = Normally Open)

FUNCTION	PROCEDURE	DISPLAY WILL SHOW
Main Setup Menu	Refer to <i>Section 5.2</i>	1. ENROL 2. PASSWD 3. TIMER 4. SYSTEM
Select System Menu	Press "4"	1. ALARM 2. MODE 3. COMM 4. OTHER
Select Mode Menu	Press "2"	1. STRIKE 2. DI 3. DISP 4. TEST
Select DI Menu	Press "2"	1. EXIT BUTTON 2. DOOR 3. DI 3
Select Door Menu	Press "2"	CURRENT: NO Press '1' -- → CHANGE
Change Door Loop Type	Press "1"	CURRENT: NC Press '1' -- → CHANGE

Once the desired loop type is selected, press "#" to exit programming.

5.6.2 Forced Entry Configuration

Forced Entry Alarm Operation: When activated, the Alarm Relay and a local audible alarm will be triggered for a preset time (Refer to *Section 5.6.4 – Alarm Relay Timer Configuration*). A "FORCE ENTRY" message is displayed on the LCD until an authorized access grant is registered. A Forced Entry alarm cannot be re-triggered until the message is cleared.

To enable/disable the Forced Entry Function,

FUNCTION	PROCEDURE	DISPLAY WILL SHOW
Main Setup Menu	Refer to <i>Section 5.2</i>	1. ENROL 2. PASSWD 3. TIMER 4. SYSTEM
Select System Menu	Press "4"	1. ALARM 2. MODE 3. COMM 4. OTHER
Select Alarm Menu	Press "1"	1. TAMPER 2. FORCE 3. D_OPEN 4. EMGCY
Select Force Menu	Press "2"	CURRENT: DISABLE Press '1' -- → CHANGE
Enable/Disable Force Entry Function	Press "1"	CURRENT: ENABLE Press '1' -- → CHANGE

Press "#" to exit programming.

5.6.3 Door Ajar Configuration

Door Ajar Alarm Operation: When activated, a “DOOR OPEN” message is displayed on the E5 LCD and a local audible alarm will annunciate until the door closes, or until an authorized access grant is registered. If the door remains open after an card access grant , the alarm will reactivate after the Door Ajar Timer has expired. When enabled, the Alarm Relay will trigger on alarm activation for a preset time (Refer to *Section 5.6.4 – Alarm Relay Timer Configuration*).

5.6.3.1 Setting the Door Ajar Timer (Default = 20 sec)

If the door remains open for longer than this preset time, the Door Ajar Alarm will activate. To modify the Door Ajar Timer

FUNCTION	PROCEDURE	DISPLAY WILL SHOW
Main Setup Menu	Refer to <i>Section 5.2</i>	1. ENROL 2. PASSWD 3. TIMER 4. SYSTEM
Select Timer Menu	Press “3”	1. STRIKE 2. ALARM 3. DURESS 4. DOOR
Select Door Menu	Press “4”	CURRENT: xx SEC NEW:
Set New Door Ajar Time	Enter nn + “#” (nn=New Time, 1 to 255 sec)	CURRENT: nn SEC NEW:

Press “#” to exit programming.

5.6.3.2 Enabling the Door Ajar Function

To enable/disable the Door Ajar Function,

FUNCTION	PROCEDURE	DISPLAY WILL SHOW
Main Setup Menu	Refer to <i>Section 5.2</i>	1. ENROL 2. PASSWD 3. TIMER 4. SYSTEM
Select System Menu	Press “4”	1. ALARM 2. MODE 3. COMM 4. OTHER
Select Alarm Menu	Press “1”	1. TAMPER 2. FORCE 3. D_OPEN 4. EMGCY
Select D_Open Menu	Press “3”	1. FUNCTION 2. K2 3. DISARM
Select Function Menu	Press “1”	CURRENT: DISABLE Press ‘1’ -- → CHANGE
Enable/Disable Door Ajar Function	Press “1”	CURRENT: ENABLE Press ‘1’ -- → CHANGE

Press “#” to exit programming.

5.6.3.3 Enabling Alarm Relay Activation on a Door Ajar Alarm (Optional)

To enable/disable the Alarm Relay on a Door Ajar Alarm,

FUNCTION	PROCEDURE	DISPLAY WILL SHOW
Main Setup Menu	Refer to <i>Section 5.2</i>	1. ENROL 2. PASSWD 3. TIMER 4. SYSTEM
Select System Menu	Press “4”	1. ALARM 2. MODE 3. COMM 4. OTHER
Select Alarm Menu	Press “1”	1. TAMPER 2. FORCE 3. D_OPEN 4. EMGCY
Select D_Open Menu	Press “3”	1. FUNCTION 2. K2 3. DISARM
Select K2 Menu	Press “2”	CURRENT: DISABLE Press ‘1’ -- → CHANGE
Enable/Disable Alarm Relay on Door Ajar Alarm	Press “1”	CURRENT: ENABLE Press ‘1’ -- → CHANGE

Press “#” to exit programming.

5.6.3.4 Enabling the Extended Door Open Time on a Door Ajar Alarm (Optional)

When enabled, the Extended Door Open Time will allow the door to remain open indefinitely after an authorized access grant is registered. A valid card must be presented to the reader after the initial Door Ajar Alarm. To enable/disable the Extended Door Open Time function,

FUNCTION	PROCEDURE	DISPLAY WILL SHOW
Main Setup Menu	Refer to <i>Section 5.2</i>	1. ENROL 2. PASSWD 3. TIMER 4. SYSTEM
Select System Menu	Press "4"	1. ALARM 2. MODE 3. COMM 4. OTHER
Select Alarm Menu	Press "1"	1. TAMPER 2. FORCE 3. D_OPEN 4. EMGCY
Select D_Open Menu	Press "3"	1. FUNCTION 2. K2 3. DISARM
Select Disarm Menu	Press "3"	CURRENT: DISABLE Press '1' --> CHANGE
Enable/Disable Extended Open Time on Door Ajar Alarm	Press "1"	CURRENT: ENABLE Press '1' --> CHANGE

Press "#" to exit programming.

5.6.4 Alarm Relay Timer Configuration

The Alarm Relay Timer controls the amount of time the Alarm Relay will activate as a result of a Force Entry or Door Ajar Alarm (when enabled).

To modify the Alarm Relay Timer,

FUNCTION	PROCEDURE	DISPLAY WILL SHOW
Main Setup Menu	Refer to <i>Section 5.2</i>	1. ENROL 2. PASSWD 3. TIMER 4. SYSTEM
Select Timer Sub Menu	Press "3"	1. STRIKE 2. ALARM 3. DURESS 4. DOOR
Select Alarm Sub Menu	Press "2"	CURRENT: xx SEC NEW:
Enter a new Alarm Relay Unlock Time	Enter nn + "#" (nn=New Time, 1 to 255 sec)	CURRENT: nn SEC NEW:

Press "#" to exit programming.

5.7 Strike (Main) Relay Timer

The Strike Relay Timer controls the amount of time the Strike Relay will activate as a result a normal access grant event.

To modify the Strike Relay Timer,

FUNCTION	PROCEDURE	DISPLAY WILL SHOW
Main Setup Menu	Refer to <i>Section 5.2</i>	1. ENROL 2. PASSWD 3. TIMER 4. SYSTEM
Select Timer Menu	Press "3"	1. STRIKE 2. ALARM 3. DURESS 4. DOOR
Select Strike Menu	Press "1"	CURRENT: xx SEC NEW:
Enter a new Strike Relay Unlock Time	Enter nn + "#" (nn=New Time, 1 to 255 sec)	CURRENT: nn SEC NEW:

Press "#" to exit programming.

5.8 Enabling the Auxiliary Reader Keypad

NOTE: An auxiliary reader is optional for the E5P, but is required for the E5C.

If the auxiliary reader has a built-in keypad, the keypad will need to be enabled for Card + PIN Mode.

To enable the Auxiliary Reader Keypad,

FUNCTION	PROCEDURE	DISPLAY WILL SHOW
Main Setup Menu	Refer to <i>Section 5.2</i>	1. ENROL 2. PASSWD 3. TIMER 4. SYSTEM
Select System Menu	Press "4"	1. ALARM 2. MODE 3. COMM 4. OTHER
Select Other Menu	Press "4"	1. C_FREE 2. PIN 3. KEYPAD 4. MORE
Select Keypad Menu	Press "3"	CURRENT: DISABLE Press '1' -- → CHANGE
Enable/Disable Keypad	Press "1"	CURRENT: ENABLE Press '1' -- → CHANGE

Press "#" to exit programming.

5.9 Using Card + PIN Mode

NOTE: If an auxiliary reader with built-in keypad is used, it must have the keypad enabled (Refer to *Section 5.8*)

Card + PIN Mode Operation: An authorized cardholder will present their card to the reader (Reader LED will flash). The cardholder will have 25 seconds to enter their 4-digit PIN followed by the '#'.

NOTE: If a PIN has not been created for a cardholder, they will be granted access without entering a PIN.

5.9.1 Enabling Card + PIN Mode

FUNCTION	PROCEDURE	DISPLAY WILL SHOW
Main Setup Menu	Refer to <i>Section 5.2</i>	1. ENROL 2. PASSWD 3. TIMER 4. SYSTEM
Select System Menu	Press "4"	1. ALARM 2. MODE 3. COMM 4. OTHER
Select Other Menu	Press "4"	1. C_FREE 2. PIN 3. KEYPAD 4. MORE
Select PIN Menu	Press "2"	CURRENT: DISABLE Press '1' -- → CHANGE
Enable/Disable PIN Function	Press "1"	CURRENT: ENABLE Press '1' -- → CHANGE

Press "#" to exit programming.

5.9.2 Creating/Modifying an Existing Cardholder's PIN

NOTE: PIN's must be created individually for each card. If the PIN is left blank, a cardholder will be granted access without entering a PIN.

To modify a cardholder's PIN,

FUNCTION	PROCEDURE	DISPLAY WILL SHOW
Main Setup Menu	Refer to <i>Section 5.2</i>	1. ENROL 2. PASSWD 3. TIMER 4. SYSTEM
Select the Enrollment Menu	Press "1"	1. ACCESS CARD 2. PATROL CARD
Select Access Card Menu	Press "1"	1. S_ADD 2. S_DEL 3. B_ADD 4. B_DEL
Select Add a Single Card Menu	Press "1"	AMOUNT : xxxx CARD NO:
View the Existing Card PIN	Present the Card to the Reader	AMOUNT : xxxx PASSWORD:
Modify the PIN	Press '*' (To delete old PIN), Enter a New 4-digit PIN + '#'	AMOUNT : xxxx CARD NO:

After modifying the PIN, present another existing card to be modified, or press "#" to save & exit programming.

5.10 Beeper Key Tone Function

This function provides an audible “beep” tone when any key on the keypad is pressed. NOTE: This will only enable/disable the tone on the E5, not the tone on an auxiliary reader.

To enable/disable the audible tone,

FUNCTION	PROCEDURE	DISPLAY WILL SHOW
Main Setup Menu	Refer to <i>Section 5.2</i>	1. ENROL 2. PASSWD 3. TIMER 4. SYSTEM
Select System Menu	Press “4”	1. ALARM 2. MODE 3. COMM 4. OTHER
Select Other Menu	Press “4”	1. C. FREE 2. PIN 3. KEYPAD 4. MORE
Select More Menu	Press “4”	1. ANTI PASSBACK 2. DURESS 3. MORE
Select More Menu	Press “3”	1. READER 2. GUARD 3. TONE 4. PARK
Select Tone Menu	Press “3”	CURRENT: DISABLE Press ‘1’ -- → CHANGE
Enable/Disable Tone Function	Press “1”	CURRENT: ENABLE Press ‘1’ -- → CHANGE

Press “#” to exit programming.

5.11 Request-to-Exit (REX) Input Loop Type

This function modifies REX input loop type. By default, the input is configured for normally open contacts. To modify the REX loop type,

FUNCTION	PROCEDURE	DISPLAY WILL SHOW
Main Setup Menu	Refer to <i>Section 5.2</i>	1. ENROL 2. PASSWD 3. TIMER 4. SYSTEM
Select System Menu	Press “4”	1. ALARM 2. MODE 3. COMM 4. OTHER
Select Mode Menu	Press “2”	1. STRIKE 2. DI 3. DISP 4. TEST
Select DI Menu	Press “2”	1. EXIT BUTTON 2. DOOR 3. DI 3
Select Exit Button Menu	Press “1”	CURRENT: NO Press ‘1’ -- → CHANGE
Change REX Loop Type	Press “1”	CURRENT: NC Press ‘1’ -- → CHANGE

Once the desired loop type is selected, press “#” to exit programming.

5.12 Restore Factory Defaults

This function will clear ALL configured options, cardholders, and card transactions. The Master Code is required. To restore factory defaults,

FUNCTION	PROCEDURE	DISPLAY WILL SHOW
Main Setup Menu	Refer to <i>Section 5.2</i>	1. ENROL 2. PASSWD 3. TIMER 4. SYSTEM
Select System Menu	Press “4”	1. ALARM 2. MODE 3. COMM 4. OTHER
Select Mode Menu	Press “2”	1. STRIKE 2. DI 3. DISP 4. TEST
Select Test Menu	Press “4”	1. KEY Testing []
Select System Reset Option	Press “#” repeatedly (about 7 times) until System Reset appears	8. SYSTEM RESET Press ‘1’ -- → Start
Restore Factory Defaults	Press “1”	

NOTE: If the Master Code has been lost, contact factory technical support.