

Access Control Series

MULTIPLE DOOR SYSTEM
MDS

Operations Manual

Central Processor

Model SA-1773

Revision 5.0

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GENERAL INFORMATION

SAFETY INSTRUCTIONS

This device is limited in its application, interfacing safely only with equally rated equipment. Failure to adhere to the operating limits detailed in this manual and in the installation instructions voids the product warranty and SAI's responsibilities.

WARRANTY

The Smart Access, Inc. security product you have purchased is warranted to be free of defects in material and workmanship when properly installed, used and maintained according to instructions. SAI, at its option and for a period of one year from the date of purchase, will replace any part which proves, upon our examination, to be defective under normal use. (Warranty does not apply to damaged or abused components.) Beyond repair or replacement of merchandise deemed defective, Smart Access's total liability shall not exceed one (1) dollar. The date of purchase is defined as seven (7) days from the date of recording shipment such product or device from our factory. SMART ACCESS, INC. SHALL NOT BE LIABLE FOR ANY DIRECT, INCIDENTAL OR CONSEQUENTIAL LOSS OR DAMAGE ARISING OUT OF THE FAILURE OF THE PRODUCT OR DEVICE TO OPERATE.

SERVICE

Smart Access maintains a Customer Service department that will be happy to help troubleshoot your system or answer any product-related question you may have.

***Call Customer Service
(407) 331-4724***

PRODUCT DESCRIPTION

FEATURES

The MDS Model SA-1773 Central Processor features microprocessor circuitry, user friendly programmability and many powerful security features.

The MDS Model SA-1773 Central Processor centrally programs up to 128 devices, such as our Model SA-1606A Door Unit. Access to programming is by password (Passcode). A total of 16 different Operator passwords may be used, each with one of four (4) security levels (eight (8) selections).

The MDS Model SA-1773 Central Processor extends remote controlling, programming and monitoring to 128 devices. (Graphical maps are also available that display the status of each connected or monitored opening or device.)

The MDS Model SA-1773 Central Processor offers a sophisticated degree of data integrity. Door database memory is maintained by a five (5) year battery supported circuit that doesn't take over until the unit loses power (thus extending memory integrity). In addition, a battery-backed clock/calendar maintains time and date even when the device is not connected to a power source.

The MDS Model SA-1773 Central Processor interfaces and communicates with the MDS Model SA-1606 Door Units and other devices utilizing a Two Wire Multi Drop Twisted Pair Line (RS-485), which can be 4000 feet long.

The MDS Model SA-1773 Central Processor provides Card and Door Dependent Time Zones and Anti-Passback for up to 65,000 unique Users. Several configurations of User combinations are available such as unique PIN's and User Cards.

The MDS Model SA-1773 Central Processor provides printer output combining messages reported from all doors connected to the system. In addition to the normal activity logs, several reports are also generated, designed to assist the System Manager in operating and maintaining the system.

The MDS Model SA-1773 Central Processor provides alarm monitoring capability by responding to the Door Units door position input, auxiliary alarm input, and tamper alarm input. The Central Processor responds to alarms by closing its alarm relay printing messages to the printer. When connected to a PC Computer, the alarms are displayed on the computer monitor. In the event an alarm takes place at any device on the two (2) wire communication line, the words "SAI" will alternate "ALM" (alarm) on the Central Processor's LCD window. This will stop when the alarm has been cleared by using Command 27, CLEAR ALARMS from the Central Processor (or by entering *PROGRAM MODE* with a level 9, 10, 11 or 12 password).

CENTRALIZED PROGRAMMING

The MDS Model SA-1773 Central Processor offers centralized programming for the entire access control alarm monitoring system. Most commands available at the MDS Model SA-1773 at the Central Processor. Also included are the necessary commands to program time zones, anti-passback function and produce reports.

TIME ZONES

Six (6) programmable Time Zones have been provided, extending the capability to define active days (can be any combination of days including holidays) with start and stop times. (A Time Zone is like a shift change.) Thirty two (32) holiday selections have also been provided. Each holiday entry requests the day and the month of a particular holiday. If holidays are included in the Time Zone calculation, then the Zone will be active that day. (Otherwise, access will be denied.) Time Zones (or groups of Time Zones) can be assigned to individual User or any range of Users, providing maximum flexibility.

Time Zones may also be entered from the individual Door Unit for that Door Unit. However, Time Zones entered from the Central Processor take precedence.

Note: To program Time Zones, the system manager must first set up the Time Zones with Command 14, SET TIME ZONE(S). Then, User Cards must be assigned to a time zone (or groups of time zones) by using Command 24, ASSIGN TIME ZONES.

ANTI-PASSBACK

Card and Door selected Anti-Passback has been provided with the ability to define IN (or entry) doors and OUT (or exit) doors. Gaining valid access through an IN door, necessitates exiting through an OUT door. Additionally, a Hard and Soft setting of Anti-passback have been included. If Anti-Passback is set to Hard, access through the IN door a second time is precluded (until card is used in an OUT door) and a message is sent to the printer reflecting the attempt. In contrast, if Anti-Passback is set to Soft, access is granted and just a message is sent to the printer showing access but indicating it was granted against Anti-Passback. Anti-passback can be assigned to individual Card Users with Command 24, ASSIGN TIME ZONE(S). (This command must be used in assigning Anti-passback to cards.)

PASSWORD PROTECTION

A multi-level password scheme has been included in your MDS Model SA-1773 Central Processor. Because of the numeric characteristic of the keypad, Passwords used with your Central Processor are numeric only (just numbers) and can be set using Command 23, PASSWORD.

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There are four (4) levels of passwords used in the Central Processor. Each of those passwords has two (2) selections. Passwords with a value of 9, 10, 11, or 12 have the same function as level 1, 2, 3, 4 except that entering *PROGRAM MODE* will clear alarms.

The levels of security are as indicated in the following table:

PASSWORD LEVEL

LEVEL 1 (9)	GUARD
LEVEL 2 (10)	SHIFT MANAGER
LEVEL 3 (11)	SUPERVISOR
LEVEL 4 (12)	SYSTEM MANAGER

Level 1 (9) is the lowest level of password security. This level is for the on-duty officer, who is authorized to issue a Remote Bypass command for a particular door. (While viewing a CCTV monitor or receiving a request over an intercom, he or she makes the decision to admit a visitor.) When this remote bypass is issued from the Central Processor a printed audit trail is made of the transaction.

Level 2 (10) allows inquiry to system database, generation of reports and remote bypass operation.

Level 3 (11) allows database inquiry, generation of reports, validating/invalidating User Cards, assigning User Cards to Time Zones and remote bypass.

Level 4 (12) allows all inquiry, reports, validation of User Cards, programming of Time Zones, issuance of remote bypass, password maintenance, clock/calendar maintenance and all timing functions. This level is considered the System Manager level.

See Appendix A for a list of password levels.

MESSAGE BUFFERING

Battery-backed message buffers have been provided both at the Central Processor and at each door device to store information intended for the printer (when the printer is turned-off or off-line). The Door Unit buffer stores 1000 messages. A command has been provided to clear the message buffers in the event printing stored data is not desirable, Command 28, CLEAR BUFFER.

LOCAL BEEPER

When a Door Unit goes off-line, (Eg. someone cuts the communication line) an internal beeper is activated periodically at the Central Processor as well as reporting to the printer the time, date and door number(s) effected. This reporting function continues until the problem is corrected, the beeper is silenced by using Command 41, BEEPER OFFLINE or by using Command 33, SYSTEM TEST.

ALARM RELAY

In addition to the internal beeper, one (1) relay is built in to the Central Processor. This relay will activate upon alarm or duress originating from Door Units or I O Modules (if connected and on-line). A detailed message is printed (or stored to be printed if the printer is not available). The relay can be connected to an external alarm or communicator for signaling monitoring stations. Command 27, CLEAR ALARMS has been provided to cancel alarm(s).

TWO WIRE COMMUNICATIONS

A two (2) wire Multi Drop Twisted Pair Communication Line (RS-485) has been provided to allow constant polling and supervision of each device. This line can be up to 4000 feet long. An 18 AWG shielded twisted pair cable minimum is recommended. Smart Access can also provide fiber optic communication and extend distance beyond 4000 feet. Contact the factory for more information.

REPORTS

The MDS Model SA-1773 Central Processor produces five (5) formatted reports. Reports are generated on a standard PC compatible printer with a parallel interface. The reports are as follows:

CARD DATA REPORT

Command 29, PRINT CARD DATA prints a list of all doors and whether particular User Card(s) are Valid (V) or Invalid (I). The range of cards printed is defined by the operator when requesting the report. Report samples can be found in APPENDIX C.

CARD ZONE REPORT

Command 30, PRINT CARD ZONES prints Time Zone(s) data for particular User Card(s). The report indicates the Time Zones that are assigned to cards. In addition, it tells whether Anti-passback has been assigned to the User Card(s). When Anti-passback is used, the report indicates if a Card User is in the building. See report samples APPENDIX C.

DOOR DATA REPORT

Command 31, PRINT DOOR DATA shows all settings such as strike time, door open time, etc. In addition, the 16 Mode Changes are printed with the active days, time and mode of operation clearly indicated. See report samples APPENDIX C.

CENTRAL PROCESSOR DATA REPORT

Command 32, PRINT CP SETUP shows the Time Zone definitions, Holiday definitions, Multi-Drop Line Data (which doors are on-line) and Operator

Passwords. The printing of Operator Passwords is available only when run by a Level 4 operator. The setting of anti-passback (Hard or Soft), the number of users inside the facility and the number of unprinted messages stored in the Central Processors buffer are also printed. See report samples APPENDIX C.

PRINT P.I.N. REPORT

Command 46, PRINT P.I.N. prints USER P.I.N. numbers assigned to users (using Command 45, SET PIN).

ELECTRICAL SPECIFICATIONS

Power Requirements

- 12VAC/30VA. Input (transformer included with the device).

Relay Ratings

- Alarm, SPDT with 6 amp contacts at 28VDC.

Communication

- To Door Units - RS-485, two (2) wire *Multi-Drop*, 18 Gauge twisted pair, 4000 foot maximum line distance. (longer distances, call factory.)
- Fibre Optic Cable with Adapters (contact factory for details)
- Printer/Computer interface - RS232

PROGRAMMING

These general rules apply to all programming functions:

- To *SCROLL* up and down through the menu while in *PROGRAM MODE*, press the **0** (zero) (down) and the **#** (pound sign) (up).
- To *JUMP* to a command, enter the command number and press *****.
- The ***** (star) key, *ENTERS* keypad entries.
- After selecting a command and making an incorrect entry, press the **#** to clear the entry.
- To cancel a command after selecting, press the ***** and the **#** together. Incomplete commands will NOT change the database.
- To exit *PROGRAM MODE* from any command, enter 48 and then press ******. The global exit command (100 *****) may also be used.
- The MDS Model SA-1773 Central Processor automatically exits a selected command if no keypad activity occurs within one minute.
- The unit automatically exits *PROGRAM MODE* if no keypad activity occurs in three minutes.
- While in *PROGRAM MODE*, the MDS Model SA-1773 Central Processor stores messages. Upon exiting, stored messages are printed.

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POWER UP

When the MDS Model SA-1773 Central Processor is first powered up, the unit automatically completes a self test, a printer test and automatic system detection of all devices attached to the two wire line (like the MDS Model SA-1606 Door Unit).

The LCD window displays the following:

```
PRESS # TO STOP  
PRINTER TEST
```

Note: If the system printer is off-line, out of paper or not physically connected, the Central Processor will delay for thirty (30) seconds. This is normal. The printer test can be canceled by pressing the #.

The system now completes a diagnostics test checking internal circuitry.

```
DIAGNOSTICS  
SCAN BUFFER -> 00
```

Then the system locates all nodes or devices on the multi drop line.

```
CHECKING NODES  
CHECK DOOR -> 00
```

For purposes of this text, we will refer to the normal operational condition of the system as *SECURE MODE*. This indicated in the LCD window below with the current date and time:

```
READY 09:05:25  
SAI MON 4-20-99
```

NOTE: In the event of an alarm, the letters "SAI" in the LCD window will alternate "ALM".

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REMOTE BYPASS

This command remotely unlocks a door as if a valid access had been completed locally at the door. Successful issuance of this command requires a Level 1 (or 9) password (see PASSWORD, Command 23). All transactions are sent to the printer, showing date, time, door number and the operator number relative to the password used.

Example: Issue a remote bypass (unlock) to Door 12.

```
READY 09:05:25
SAI MON 4-20-87
```

1. Press #. Then, enter your password and press *.

```
PLEASE INPUT
PASSWORD ? 00000
```

2. Enter 12 (door number) and press *.

```
PLEASE INPUT
DOOR 1-58 12
```

The door is now remotely bypassed (unlocked) for the preset strike time. An audit trail of the remote bypass is sent to the printer and the system returns to *SECURE MODE* (see LCD window below:).

```
READY 09:06:15
SAI MON 4-20-99
```


ENTERING PROGRAM MODE

To enable the MDS MODEL SA-1773 Central Processor to program, the device must be placed in *PROGRAM MODE*. A valid password is necessary. For added security, a multi-level password scheme has been used. Hence, after entering *PROGRAM MODE*, you will be able to activate many or all of the system commands, depending on the level of your password as programmed by the System Administrator.

NOTE: (To enter *PROGRAM MODE* when the password is unknown, the System Administrator may insert a program card at any connected Model SA-1606 Door Unit and select Command 27 REMOTE PROGRAMMING. The Central Processor will then enter *PROGRAM MODE*. A level 4 password should now be programmed (use Command 23), to enable entering *PROGRAM MODE* with just the password thereafter.)

Example: To enter *PROGRAM MODE*:

READY 10:37:34
SAI MON 04-20-99

1. Press #. Then, enter your password and press *.

PLEASE INPUT
PASSWORD ? 0XXXX

Note: For security reasons, the password itself is not shown in the LCD display (X's are displayed).

Successful entry is indicated by this LCD window and shall be referred to in this text as *COMMAND MODE*.

VALIDATE CARDS
COMMAND -> 01

VALIDATE CARDS**COMMAND 1**

This command provides the capability to validate a card(s). One card or a group of cards can be validated, for one door or a group of doors. Door range is 1 through 58. Card range is 1 through 65,535.

Example: Validate cards 1 through 75 in Doors 6 through 10.

SCROLL or *JUMP* to this command. Then, select the command by pressing *.

VALIDATE CARDS
COMMAND -> 01

1. Enter **6** (first door number) and press *.

VALIDATE CARDS
FIRST DOOR -> 06

2. Enter **10** (last door number) and press *.

VALIDATE CARDS
LAST DOOR -> 10

3. Enter **1** (first card number) and press *.

VALIDATE CARDS
FIRST CARD -> 00001

4. Enter **75** (last card number) and press *.

VALIDATE CARDS
LAST CARD -> 00075

The display will show the following momentarily:

COMMAND SEQUENCE
COMPLETED

And then, return to *COMMAND MODE*.

VALIDATE CARDS
COMMAND -> 01

INVALIDATE CARDS	COMMAND 2
-------------------------	------------------

This command provides the capability to invalidate a card(s). One card or a group of cards can be invalidated, for one door or a group of doors. Door range is 1 through 58. Card range is 1 through 65,535.

Example: Invalidate cards 100 through 200 in Doors 1 through 19.

SCROLL or *JUMP* to this command. Then select the command by pressing *.

INVALIDATE CARDS COMMAND -> 02

1. Enter **1** (first door number) and press *.

INVALIDATE CARDS FIRST DOOR -> 01

2. Enter **19** (last door number) and press *.

INVALIDATE CARDS LAST DOOR -> 19

3. Enter **100** (first card number) and press *.

INVALIDATE CARDS FIRST CARD -> 00100

4. Enter **200** (last card number) and press *.

INVALIDATE CARDS LAST CARD -> 00200
--

The display will show the following momentarily:

COMMAND SEQUENCE COMPLETED

And then, return to *COMMAND MODE*.

INVALIDATE CARDS COMMAND -> 02

ACCESS CODE

COMMAND 3

This command programs the door unit(s) whether or not to require a common Access Code when attempting entry through the controlled opening and optionally programs a new code.

Note: If the PIN function was ON, requesting this command will turn OFF the PIN. Door range is 1 through 58. An Access Code can be from 1 through 65,535.

Example: Turn OFF Access Code at Door 6 and 7.

1. *SCROLL* or *JUMP* to this command. Then, select the command by pressing *.

ACCESS CODE
COMMAND -> 03

2. Enter **6** (first door number) and press *.

ACCESS CODE
FIRST DOOR -> 06

3. Enter **7** (last door number) and press *.

ACCESS CODE
LAST DOOR -> 07

4. Enter **0** (turn OFF) and press *.

ACCESS CODE
0=OFF 1=ON 0

The device will display the following LCD window momentarily:

COMMAND SEQUENCE
COMPLETED

And then, continue at *COMMAND MODE*.

ACCESS CODE
COMMAND -> 03

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Example: Activate Access Code for Doors 5 through 10 and set the Access Code to 1 2 3 4.

1. *SCROLL* or *JUMP* to this command. Then, select the command by pressing *.

ACCESS CODE
COMMAND -> 03

2. Enter **5** (first door number) and press *.

ACCESS CODE
FIRST DOOR -> 05

3. Enter **10** (last door number) and press *.

ACCESS CODE
LAST DOOR -> 10

4. Enter **1** (Turn Code ON) and press *.

ACCESS CODE
0=OFF 1=ON 1

5. Enter **1 2 3 4** (new Access Code) and press *.

NOTE: To retain the previous Access Code in the Door Units, simply press the * without entering a new number (the unit will automatically use the **0**).

ACCESS CODE
0=OLD CODE 001234

The device will display the following LCD window momentarily:

COMMAND SEQUENCE
COMPLETED

And then, return to *COMMAND MODE*.

ACCESS CODE
COMMAND -> 03

CARD ACCESS

COMMAND 4

This command sets Card Access ON and OFF at the door unit(s). Door range is 1 through 64.

Example: Turn Card Access ON at Doors 1 through 25.

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.

CARD ACCESS
COMMAND -> 04

2. Enter **1** (first door number) and press *.

CARD ACCESS
FIRST DOOR -> 01

3. Enter **25** (last door number) and press *.

CARD ACCESS
LAST DOOR -> 25

4. Enter **1** (to turn ON) and press *.

CARD ACCESS
0=OFF 1=ON 1

The device will display the following LCD window momentarily:

COMMAND SEQUENCE
COMPLETED

And then, return to *COMMAND MODE*.

CARD ACCESS
COMMAND -> 04

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Example: Turn Card Access OFF at Doors 12 through 18.

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.

```
CARD ACCESS
COMMAND -> 04
```

2. Enter **12** (first door number) and press *.

```
CARD ACCESS
FIRST DOOR -> 12
```

3. Enter **18** (last door number) and press *.

```
CARD ACCESS
LAST DOOR -> 18
```

4. Enter **0** (to turn OFF) and press *.

```
CARD ACCESS
0=OFF 1=ON 0
```

The device will display the following LCD window momentarily:

```
COMMAND SEQUENCE
COMPLETED
```

And then, return to *COMMAND MODE*.

```
CARD ACCESS
COMMAND -> 4
```

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P. I. N.

COMMAND 5

This command selects P. I. N. (Personal Identification Number) at the door unit(s). Issuing the P.I.N. command automatically turns ON the card reader and turns OFF the Access Code feature (if it was in effect). Door range is from 1 through 64.

Example: Turn P.I.N. ON, Doors Number 3 through 8.

1. *SCROLL* or *JUMP* to this command. Then, select the command by pressing *.

P. I. N.
COMMAND -> 05

2. Enter **3** (first door number) and press *.

P. I. N.
FIRST DOOR -> 03

3. Enter **8** (last door number) and press *.

P. I. N.
LAST DOOR -> 08

4. Enter **1** (to turn ON) and press *.

P. I. N.
0=OFF 1=ON 1

The device will display the following LCD window momentarily:

COMMAND SEQUENCE
COMPLETED

And then, return to *COMMAND MODE*.

P. I. N.
COMMAND -> 05

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Example: Turn P.I.N. OFF, Doors Number 13 through 24.

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.

P. I. N. COMMAND -> 05

2. Enter **13** (first door number) and press *.

P. I. N. FIRST DOOR -> 13

3. Enter **24** (last door number) and press *.

P. I. N. LAST DOOR -> 24

4. Enter **0** (to turn OFF) and press *.

P. I. N. 0=OFF 1=ON 0

The device will display the following LCD window momentarily:

COMMAND SEQUENCE COMPLETED

And then, return to *COMMAND MODE*.

P. I. N. COMMAND -> 05

DOOR: OPEN/CLOSE

COMMAND 6

This command unlocks or locks a door(s) remotely for an untimed period. To reverse, re-issue and enter the reverse response to step 4 below. Door range is from 1 through 64.

Example: Unlock Doors 12 through 14.

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.

DOOR: OPEN/CLOSE
COMMAND -> 06

2. Enter **12** (first door number) and press *.

DOOR: OPEN/CLOSE
FIRST DOOR -> 12

3. Enter **14** (last door number) and press *.

DOOR: OPEN/CLOSE
LAST DOOR -> 14

4. Enter **1** (to OPEN or Unlock) and press *.

DOOR: OPEN/CLOSE
1=OPN 0=CLS 1

The device will display the following LCD window momentarily:

COMMAND SEQUENCE
COMPLETED

And then, return to *COMMAND MODE*.

DOOR: OPEN/CLOSE
COMMAND -> 06

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Example: Lock doors 1 through 20.

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.

DOOR: OPEN/CLOSE
COMMAND -> 06

2. Enter **1** (first door number) and press *.

DOOR: OPEN/CLOSE
FIRST DOOR 01

3. Enter **20** (last door number) and press *.

DOOR: OPEN/CLOSE
LAST DOOR 20

4. Enter **0** (to lock) and press *.

DOOR: OPEN/CLOSE
1=OPN 0=CLS 00

The display will show the following:

COMMAND SEQUENCE
COMPLETED

And then return to COMMAND MODE.

DOOR: OPEN/CLOSE
COMMAND -> 06

STRIKE TIME

COMMAND 7

This command programs strike time (the time strike relay is powered) at Door Units. Door range is 1 to 64. Time range is 0 to 255 seconds.

Example: Set strike time to 5 sec. at doors 1 to 8.

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.

STRIKE TIME
COMMAND -> 07

2. Enter **1** (first door number) and press *.

STRIKE TIME
FIRST DOOR -> 01

3. Enter **8** (last door number) and press *.

STRIKE TIME
LAST DOOR -> 08

4. Enter **5** (strike time) and press *.

STRIKE TIME
0 - 255 SEC 005

The display will show the following:

COMMAND SEQUENCE
COMPLETED

And then return to *COMMAND MODE*.

STRIKE TIME
COMMAND -> 07

DOOR OPEN LIMIT

COMMAND 8

This command sets amount of time the door is allowed to be open before closing the alarm relay (when set). A message is printed (if error log is set). Open time cannot be less than 5 seconds nor less than the strike time. Door range is 1 to 64. Door Open Limit range is 5 to 255 seconds.

Example: Set Door Open to 30 sec. at 32 doors.

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.

DOOR OPEN LIMIT
COMMAND -> 08

2. Enter **1** (first door number) and press *.

DOOR OPEN LIMIT
FIRST DOOR -> 01

3. Enter **32** (last door number) and press *.

DOOR OPEN LIMIT
LAST DOOR -> 32

4. Enter **30** (door open time) and press *.

DOOR OPEN LIMIT
5 - 255 SEC 030

The display will show the following:

COMMAND SEQUENCE
COMPLETED

And then return to *COMMAND MODE*.

DOOR OPEN LIMIT
COMMAND -> 08

KEYPAD TIME OUT

COMMAND 9

This command sets the time allowed when entering keypad entries. Door range is 1 to 64. Time range is 5 to 255 seconds.

Example: Set Keypad Time to 10 sec., doors 5 to 8.

1. *SCROLL* or *JUMP* to this command. The select by pressing *.

KEYPAD TIME OUT
COMMAND -> 09

2. Enter **5** (first door number) and press *.

KEYPAD TIME OUT
FIRST DOOR -> 05

3. Enter **8** (last door number) and press *.

KEYPAD TIME OUT
LAST DOOR -> 08

4. Enter **10** (keypad time out) and press *.

KEYPAD TIME OUT
5 - 255 SEC 010

The display will show the following:

COMMAND SEQUENCE
COMPLETED

And then return to *COMMAND MODE*.

KEYPAD TIME OUT
COMMAND -> 09

ERROR LOGGING

COMMAND 10

This command sets the error logging capability of Door Unit(s). When the log is ON, messages regarding invalid attempts and alarms are printed. Door range is 1 to 64.

Example: Set Error Logging ON in 32 Doors.

1. *SCROLL OR JUMP* to this command. Then select the command by pressing *.

ERROR LOGGING
COMMAND -> 10

2. Enter 1 (first door number) and press *.

ERROR LOGGING
FIRST DOOR -> 01

3. Enter **32** (last door number) and press *.

ERROR LOGGING
LAST DOOR -> 32

4. Enter **1** (turn log ON) and press *.

ERROR LOGGING
0=OFF 1=ON 01

The display will show the following:

COMMAND SEQUENCE
COMPLETED

And then, return to *COMMAND MODE*.

ERROR LOGGING
COMMAND -> 10

ACCESS LOGGING

COMMAND 11

This command sets the access logging capability of Door Units. When the log is ON, messages about valid accesses are printed at the system printer. Door range is 1 to 64.

Example: Set Access Logging ON in 32 Door Units.

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.

ACCESS LOGGING
COMMAND -> 11

2. Enter **1** (first door number) and press *.

ACCESS LOGGING
FIRST DOOR -> 01

3. Enter **32** (last door number) and press *.

ACCESS LOGGING
LAST DOOR -> 32

4. Enter **1** (turn log ON) and press *.

ACCESS LOGGING
0=OFF 1=ON 01

The display will show the following:

COMMAND SEQUENCE
COMPLETED

And then return to *COMMAND MODE*.

ACCESS LOGGING
COMMAND -> 11

SET MODE(S)**COMMAND 12**

This command programs the MODE CHANGE feature of the SA-1606 Door Unit. Modes are automatic changes that control the condition of access of a Door Unit. These changes happen at a preprogrammed time and day(s). Door Units have sixteen (16) different Mode Changes that are unique to that Door. Twenty two (22) different conditions are available.

Door Units can have the following functions:

- SET NO ACCESS
- SET CARD ACCESS ONLY
- SET DOOR OPEN/CLOSED
- SET CARD ACCESS AND P.I.N.
- SET ACCESS CODE ONLY
- SET CARD ACCESS AND ACCESS CODE
- SET DOOR OPEN, LOG CARDS
- SET ACCESS AND ERROR LOG ON/OFF
- SET BACKLIGHT ON/OFF
- SET CARD OR ACCESS CODE
- SET RELAY 2 ON/OFF (AlarmRelay)
- SET USER PIN ONLY
- SET USER PIN OR CARD
- SET ATM CARDS
- SET ANTI-PASSBACK

VERY IMPORTANT: A Mode Change accomplishes only one function from the above list. A complete cycle requires at least two (2) Mode Changes. Example: A Mode Change to UNLOCK the door. Another Mode Change to LOCK the door.

The following example completes only one (1) Mode Change or half the cycle. A second Mode Change is required to reverse the action of the first.

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Example: Set Mode 1 at Door 10 to unlock Monday through Friday at 8 am.

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.

```
SET MODE(S)
COMMAND -> 12
```

2. Enter **10** (first door number) and press *.

```
SET MODE(S)
FIRST DOOR -> 10
```

3. Enter **10** (last door number) and press *.

```
SET MODE(S)
LAST DOOR -> 10
```

Note: We are programming door 10. We select door 10 in step 2 (first door number) and again in step 3 (last door number). A shortcut would be to just press the * at step 3 (last door number).

4. Enter 1 (mode number) and press *.

```
SET MODE(S)
MODE 1-16 -> 01
```

DAYS CHART

MODE INACTIVE	0
SUNDAY	1
MONDAY	2
TUESDAY	4
WEDNESDAY	8
THURSDAY	16
FRIDAY	32
SATURDAY	64
HOLIDAYS	128

5. Enter 62 (total of the desired days) and press *

```
SET MODE(S)
DAYS 0 - 255 62
```

NOTE: To arrive at the DAYS value, simply select the desired days and add up their associated values.

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Example: Arrive at the DAYS VALUE for Monday through Friday.

MONDAY	2
TUESDAY	4
WEDNESDAY	8
THURSDAY	16
FRIDAY	32
TOTAL	62

6. Enter 8 (hour mode will take effect) and press *.

NOTE: 24 Hour (military) clock.

SET MODE(S)
HOUR 0 - 23 -> 08

7. Enter 0 (minute mode will take effect) and press *.

SET MODE(S)
MIN 0 - 59 -> 00

MODES FUNCTION

NO ACCESS	0
CARD ACCESS ONLY	1
DOOR OPEN	2
CARD ACCESS AND PIN	3
ACCESS CODE ONLY	4
CARD AND ACCESS CODE	5
DOOR OPEN - LOG	6
ACCESS & ERROR LOG	7
ACCESS & ERROR LOG	8
ACCESS LOG ON	9
ERROR LOG ON	10
BACKLIGHT ON	11
BACKLIGHT OFF	12
CARD OR ACCESS CODE	13
ALARM RELAY ON	14
ALARM RELAY OFF	15
PIN CODE ONLY	16
PIN CODE OR CARD	17
ATM FUNCTION ON	18
ATM FUNCTION OFF	19
ANTI-PASSBACK ON	20
ANTI-PASSBACK OFF	21

8. Enter 5 (number of desired Mode Function) and press *.

SET MODE(S)
PICK 0 - 17 -> 05

The display will show the following:

COMMAND SEQUENCE
COMPLETED

And then return to *COMMAND MODE*.

SET MODE(S)
COMMAND -> 12

Note: Each Mode Change does only one (1) function.

MODES ON/OFF

COMMAND 13

This command turns the MODES feature ON and OFF without interfering with the programmed modes. This command is global in that it turns ON and OFF all Modes in a selected range of doors.

Example: Turn Modes ON at Door 5 and 6.

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.

MODES ON/OFF
COMMAND -> 13

2. Enter **5** (first door number) and press *.

MODES ON/OFF
FIRST DOOR -> 05

3. Enter **6** (last door number) and press *.

MODES ON/OFF
LAST DOOR -> 06

4. Enter **1** (turn ON) and press *.

MODES ON/OFF
0=OFF 1=ON 01

The display will show the following:

COMMAND SEQUENCE
COMPLETED

And then return to *COMMAND MODE*.

MODES ON/OFF
COMMAND -> 13

SET TIME ZONE(S)

COMMAND 14

This command programs the six (6) Time Zones (or shift changes) featured in the Central Processor SA-1773.

RULES

Time Zones cannot go over a day boundary. To obtain a zone from 10:00 pm to 2:00 am, it is necessary to use two (2) separate zones; one from 10:00 to 11:59 pm and one from 12:00 to 2:00 am of the next day. Both time zones are then assigned (Command 24) to personnel requiring access during that time.

Time Zones must be assigned to individual Card Users. Use Command 24 ASSIGN TIME ZONES to assign the Time Zones. Refer to that command for more information.

Example: Set Time Zone 1 to start at 8:00 am and end at 5:30 pm, Monday through Friday.

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.

SET TIME ZONE
COMMAND -> 14

2. Select 1 (time zone to update) and press *.

SET TIME ZONE(S)
ZONE 1 - 6 -> 01

NOTE: After selecting a Time Zone, if the zone was previously programmed the old values will be displayed in the lower right hand corner of the LCD window. To accept these values, simply press *. To select a new value, enter the value and press *. The old value will move to the upper right and corner of the display,

DAYS CHART

MODE INACTIVE	0
SUNDAY	1
MONDAY	2
TUESDAY	4
WEDNESDAY	8
THURSDAY	16
FRIDAY	32
SATURDAY	64
HOLIDAYS	128

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3. Enter **62** (value of DAYS, arrived from the DAYS CHART) and press *.

ACTIVE DAYS
DAYS 0 - 255 -> 62

NOTE: To arrive at the value for DAYS, add together the numbers associated with the particular days from the DAYS TABLE above. That total will be the value of DAYS as indicated below:

MONDAY	2
TUESDAY	4
WEDNESDAY	8
THURSDAY	16
FRIDAY	32
TOTAL	62

4. Enter **8** (start hour) and press *.

NOTE: 24 Hour (Military) Clock

START TIME
HOUR 0 - 23 -> 08

5. Enter **0** (start minutes) and press *.

START TIME
MIN 0 - 59 -> 00

6. Enter **17** (end hour) and press *.

END TIME
HOUR 0 - 23 -> 17

7. Enter **30** (end minutes) and press *.

END TIME
MIN 0 - 59 -> 30

The display will show the following:

COMMAND SEQUENCE
COMPLETED

And then return to *COMMAND MODE*.

SET TIME ZONE
COMMAND -> 14

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SET DATE

COMMAND 15

This command sets the date in the Central Processor. After completing this command, the new date is automatically sent to each door unit.

Moving through the command sequence, the current settings are displayed in the lower right hand corner of the LCD window. If you desire to use that value, just press *.

Example: Set date to Thursday, March 25, 1999.

1. *SCROLL* or *JUMP* to this command, Then select by pressing *.

SET DATE
COMMAND -> 15

2. Enter **5** (WK-DAY, see table) and press *.

SET DATE
WK-DAY 1 - 7 -> 05

WK-DAY TABLE

SUNDAY	1
MONDAY	2
TUESDAY	3
WEDNESDAY	4
THURSDAY	5
FRIDAY	6
SATURDAY	7

3. Enter **3** (month) and press *.

SET DATE
MONTH 1 - 12 -> 03

4. Enter **25** (day) and press *.

SET DATE
DAY 1 - 31 -> 25

5. Enter **88** (year) and press *.

SET DATE
YEAR 0 - 88 -> 88

The display will show the following:

COMMAND SEQUENCE
COMPLETED

And then return to *COMMAND MODE*.

SET DATE
COMMAND -> 15

SET TIME

COMMAND 16

This command sets the time in the Central Processor. After completing this command, the new time is automatically sent to each door unit. Moving through the command sequence, the current settings are displayed in the lower right hand corner of the LCD window. If you desire to use that value, just press *.

Example: Set time to 11:58:00.

1. *SCROLL* or *JUMP* to this command, Then select by pressing *.

SET TIME
COMMAND -> 16

2. Enter **11** (hour) and press *.

SET TIME
HOUR 0 - 23 -> 11

3. Enter **58** (minutes) and press *.

SET DATE
MIN 0 - 59 -> 58

4. Enter **30** (second) and press *.

SET TIME
SEC 0 -59 -> 30

The display will show the following:

COMMAND SEQUENCE
COMPLETED

And then return to *COMMAND MODE*.

SET TIME
COMMAND -> 16

SET HOLIDAY

COMMAND 17

This command sets up the 32 holidays in the Central Processor and in the Door Units.

Example: Set Holiday 3 to July 4th.

1. *SCROLL* or *JUMP* to this command. Select the command by pressing the *.

SET HOLIDAY
COMMAND -> 17

2. Enter **3** (holiday number) and press *.

SET HOLIDAY
HOL 1 - 32 -> 03

NOTE: After selecting the holiday to modify, the old values are displayed in the lower right hand corner of the display. To keep values, press *.

3. Enter **7** (month of July) and press *.

SET HOLIDAY
MONTH 1 - 12 -> 07

4. Enter **4** (day of the holiday) and press *.

SET HOLIDAY
DAY 1 - 31 -> 04

The display will show the following:

COMMAND SEQUENCE
COMPLETED

And then return to *COMMAND MODE*.

SET HOLIDAY
COMMAND -> 17

USER STATUS

COMMAND 18

This command displays the user status in a given Door Unit and displays whether a user is IN or OUT of the facility (accurate only if anti-passback is used).

Example: View User 253 in Door 27.

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.

USER STATUS
COMMAND -> 18

2. Enter **27** (door number) and press *.

USER STATUS
DOOR 1 - 58 -> 27

3. Enter **253** (card number) and press *.

USER STATUS
CARD NO. -> 00253

System displays the card status and if the Card is IN or OUT. Press 0 to scroll back to the previous card number and # to scroll to the next card number. If no key is pressed, the system will automatically time-out after one minute.

USER STATUS OUT
VALID 00253

If a door is requested that is not currently communicating with the Central Processor, the following message is displayed:

USER STATUS OUT
OFF-LINE 0253

To exit manually, press * (or any key except 0 and #). The display will then return to *COMMAND MODE*.

USER STATUS
COMMAND -> 18

DURESS ALARM

COMMAND 19

This command sets ON and OFF the function of the alarm relay at each door. Setting Duress Alarm OFF inhibits the alarm relay at the Door Unit to respond to duress. Setting Duress Alarm ON causes the alarm relay at a Door Unit to be activated in the event of a duress signal.

Example: Set alarm relay at door 12 through 20 to respond to duress.

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.

DURESS ALARM
COMMAND -> 19

2. Enter **12** (first door) and press *.

DURESS ALARM
FIRST DOOR 12

3. Enter **20** (last door) and press *.

DURESS ALARM
LAST DOOR -> 20

4. Enter **1** (turn ON function) and press *.

DURESS ALARM
0=OFF 1=ON 01

The display will show:

COMMAND SEQUENCE
COMPLETED

And then return to *COMMAND MODE*.

DURESS ALARM
COMMAND -> 19

LOCAL ALARM

COMMAND 20

This command sets ON and OFF the function of the alarm relay at each door. Setting local Alarm OFF inhibits the alarm relay at the Door Unit to respond to a local alarm. Setting local alarm ON causes the alarm relay at a Door Unit to be activated in the event of a local alarm.

Example: Set alarm relay at door 5 through 10 to respond to local alarm.

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.

LOCAL ALARM
COMMAND -> 20

2. Enter **5** (first door) and press *.

LOCAL ALARM
FIRST DOOR 05

3. Enter **10** (last door) and press *.

LOCAL ALARM
LAST DOOR -> 10

4. Enter **1** (turn ON function) and press *.

LOCAL ALARM
0=OFF 1=ON 01

The display will show:

COMMAND SEQUENCE
COMPLETED

And then return to *COMMAND MODE*.

LOCAL ALARM
COMMAND -> 20

DOOR ALARM

COMMAND 21

This command sets ON and OFF the function of the alarm relay at each door. Setting door Alarm OFF inhibits the alarm relay at the Door Unit to respond to a door related alarm. Setting door alarm ON causes the alarm relay at a Door Unit to be activated in the event of a door alarm.

Example: Set alarm relay at door 5 through 10 to respond to door alarm.

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.

DOOR ALARM
COMMAND -> 21

2. Enter **5** (first door) and press *.

DOOR ALARM
FIRST DOOR 05

3. Enter **10** (last door) and press *.

DOOR ALARM
LAST DOOR -> 10

4. Enter **1** (turn ON function) and press *.

DOOR ALARM
0=OFF 1=ON 01

The display will show:

COMMAND SEQUENCE
COMPLETED

And then return to *COMMAND MODE*.

DOOR ALARM
COMMAND -> 21

CARD DURESS

COMMAND 22

This command is used to select card duress, that is the duress capability when a Door Unit is in card only mode. With card duress off, duress function is still available when a keypad operation is in effect (Access Code, P.I.N. or any card/keypad combination). With Card Duress ON, after inserting card, the Door Unit delays (keypad timeout) before releasing lock. This time can be used to issue a duress or simply press the * to release the lock.

Example: Turn ON Card Duress in Doors 1 through 20.

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.

CARD DURESS
COMMAND -> 22

2. Enter **1** (first door) and press *.

CARD DURESS
FIRST DOOR -> 00001

3. Enter **20** (last door) and press *.

CARD DURESS
LAST DOOR -> 00020

4. Enter **1** (turn ON card duress) and press *.

CARD DURESS
0=OFF 1=ON 00001

The display will show the following:

COMMAND SEQUENCE
COMPLETED

And then, return to *COMMAND MODE*.

CARD DURESS
COMMAND -> 22

PASSWORD	COMMAND 23
-----------------	-------------------

This command enters or modifies passwords (or passcodes) used to gain access to the Central Processor. Passwords are referenced on printed logs by Operator Number (not the password). Operator passwords may be any number between 0 and 65,535.

Example: Add a Level 4 Password (78) for Operator 7.

1. *SCROLL* or *JUMP* to this command. Then, select the command by pressing *.

PASSWORD COMMAND -> 23

2. Enter **7** (operator number) and press *.

PASSWORD OPER 1-16 -> 00007

NOTE: Operator Number prior settings are shown in the lower right-hand corner of the LCD. To use the old value, simply press *.

3. Enter **4** (password level) and press *.

PASSWORD LEVEL 0-12 -> 00004

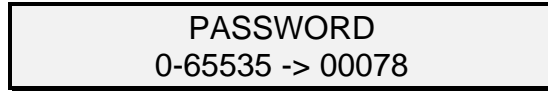
Level Chart

LEVEL	FUNCTION
0	Inactive Operator
1	Remote By-Pass Only
2	Inquiry/Reports
3	Validation/Inquiry
4	All Commands
9	*Remote By-Pass
10	*Inquiry/Reports
11	*Validation/Inquiry
12	*All Commands

* Passwords 9, 10, 11 and 12 will automatically clear alarms prior to programming.

Note: A complete list of commands and their associated level can be found in Appendix A of this manual.

4. Enter **78** (password) and press *.



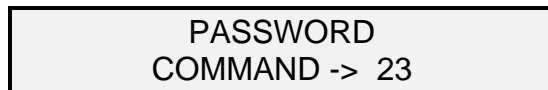
PASSWORD
0-65535 -> 00078

The device will display the following LCD window momentarily:



COMMAND SEQUENCE
COMPLETED

And then, return to *COMMAND MODE*.



PASSWORD
COMMAND -> 23

ASSIGN TIME ZONE

COMMAND 24

This command assigns User Cards to Time Zones. A table is used to determine the Time Zone value to be assigned. These number(s) are added together to achieve the zone value (see step 4, next page).

Example: Assign Time Zone 5 and 6, and set Antipassback ON for Cards 1 through 1000.

1. *ROLL* or *JUMP* to this command. Then select the command by pressing *.

ASSIGN TIME ZONE
COMMAND -> 24

2. Enter **1** (first card number) and press *.

ASSIGN TIME ZONE
FIRST CARD -> 00001

3. Enter **1000** (last card number) and press *.

ASSIGN TIME ZONE
LAST CARD -> 01000

4. Enter **48** (ZONE value, see below) and press *.

ASSIGN TIME ZONE
ZONE 0-63 -> 00048

ZONE TABLE

ZONE	VALUE
DISABLE	0
ZONE 1	1
ZONE 2	2
ZONE 3	4
ZONE 4	8
ZONE 5	16
ZONE 6	32

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Note: To arrive at the value for ZONE, add the numbers associated with the particular ZONE together as indicated below:

ZONE 5	16
ZONE 6	32
TOTAL	48

5. Enter **1** (set antipassback to YES) and press *.

ANTIPASSBACK
0=NO 1=YES -> 00001

The device will display the following LCD window momentarily:

COMMAND SEQUENCE
COMPLETE

And then, return to COMMAND MODE.

ASSIGN TIME ZONE
COMMAND -> 24

USER PRESENCE

COMMAND 25

This command manually sets User Card(s) IN or OUT of the facility. We use this command when a card leaves the facility without using the card in the OUT door (piggy-backing). This will allow normal re-entry into the facility when Antipassback is in use.

Example: Set User Cards 100 through 200 OUT.

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.

USER PRESENCE
COMMAND -> 25

2. Enter **100** (first card number) and press *.

USER PRESENCE
FIRST CARD -> 00100

3. Enter **200** (last card number) and press *.

USER PRESENCE
LAST CARD -> 00200

4. Enter **0** (presence set to OUT) and press *.

USER PRESENCE
0=OUT 1=IN 00000

The device will display the following LCD window momentarily:

COMMAND SEQUENCE
COMPLETED

And then, return to *COMMAND MODE*.

USER PRESENCE
COMMAND -> 25

SET DOOR: OUT/IN

COMMAND 26

This command sets a door or group of doors as OUT or IN and defines Antipassback as HARD or SOFT. With Antipassback set to HARD, a card inserted against Antipassback, will be denied access. With a setting of SOFT, access will be granted. In both cases a detailed message is sent to the printer.

Example: Set Doors 5 through 10 to IN Doors with Antipassback set to HARD.

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.

```
SET DOOR: OUT/IN  
COMMAND -> 26
```

2. Enter **5** (first door number) and press *.

```
SET DOOR: OUT/IN  
FIRST DOOR -> 00005
```

3. Enter **10** (last door number) and press *.

```
SET DOOR: OUT/IN  
LAST DOOR -> 00010
```

4. Enter **1** (set door IN) and press *.

```
SET DOOR: OUT/IN  
0=OUT 1=IN 00001
```

5. Enter **1** (Antipassback HARD) and press *.

```
ANTIPASSBACK ?  
0=SFT>>1=HRD 00001
```

The device will display the following LCD window momentarily:

```
COMMAND SEQUENCE  
COMPLETED
```

And then, return to *COMMAND MODE*.

```
SET DOOR OUT/IN  
COMMAND -> 26
```

CLEAR ALARM(S)**COMMAND 27**

This command clears alarm(s) on a single door or a range of doors. NOTE: Clearing alarms at door(s) will automatically clear alarm at the Central Processor.

Example: Clear alarms at Door 5 through 9.

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.

CLEAR ALARM(S)
COMMAND -> 27

2. Enter **5** (first door number) and press *.

CLEAR ALARM(S)
FIRST DOOR -> 00005

3. Enter **9** (last door number) and press *.

CLEAR ALARM(S)
LAST DOOR -> 00009

The alarm is cleared. Messages regarding the alarm clearing will be printed upon exiting *PROGRAM MODE*. If an alarm still exists, it will again be reported.

The device will display the following LCD window momentarily:

COMMAND SEQUENCE
COMPLETED

And then, return to *COMMAND MODE*.

CLEAR ALARM(S)
COMMAND -> 27

CLEAR BUFFER(S)**COMMAND 28**

This command programs the Central Processor to clear all messages that may be within the buffers in Door Units and the Central Processor. Once cleared, the data is permanently lost. Central Processor reports are not buffered.

Example: Clear the buffers in the Central Processor and at Doors 1 through 58.

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.

CLEAR BUFFER ?
COMMAND -> 28

2. Enter 1 (YES, clear Central Processor Buffer) and press *.

CLEAR CP BUFFER ?
0=NO 1=YES -> 01

The Central Processors buffer has been cleared. Now the system requests to clear the Door Buffer.

3. Enter 1 (YES, clear Door Unit Buffer) and press *.

DOOR BUFFER ?
0=NO 1=YES -> 01

If your response was YES (1), continue to step 4. If your response was NO (0) the following LCD window will be displayed momentarily.

COMMAND SEQUENCE
COMPLETED

And then, return to *COMMAND MODE*.

CLEAR BUFFER ?
COMMAND -> 28

4. Enter **1** (first door number) and press *.

DOOR BUFFER ?
FIRST DOOR -> 00001

5. Enter **32** (last door) and press *.

DOOR BUFFER ?
LAST DOOR -> 00032

The device will display the following LCD window momentarily.

COMMAND SEQUENCE
COMPLETED

And then, resume at *COMMAND MODE*.

DOOR BUFFER ?
COMMAND -> 28

PRINT CARD DATA

COMMAND 29

This command prints information about cards. For a given range, the system reads memory from each Door Unit and prints the card's validity at a particular opening.

Example: Print cards 1 through 200 (indicating whether a card is valid or invalid in particular doors).

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.

PRINT CARD DATA
COMMAND -> 29

2. Enter **1** (first card number) and press *.

PRINT CARD DATA
FIRST CARD -> 00001

3. Enter **200** (last card number) and press *.

PRINT CARD DATA
LAST CARD -> 00200

When the system is sending data to the printer the following LCD window is displayed:

PRESS # TO STOP
CARD NO.-> 00000

Upon completion of sending data, the next LCD window is displayed momentarily. (However, the printer may still be printing data.)

COMMAND SEQUENCE
COMPLETED

Then, the device returns to *COMMAND MODE*.

PRINT CARD DATA
COMMAND -> 29

PRINT CARD ZONES

COMMAND 30

This command prints Time Zone and Antipassback assignment to User Card(s).
Sample Report in APPENDIX C.

Example: Print cards 100 through 150.

1. *SCROLL* or *JUMP* to this command. Select the command by pressing *.

PRINT CARD ZONES
COMMAND -> 30

2. Enter **100** (first card number) and press *.

PRINT CARD ZONES
FIRST CARD -> 00100

3. Enter **150** (last card number) and press *.

PRINT CARD ZONES
LAST CARD -> 00150

Printing starts and the LCD displays the following:

PRESS # TO STOP
CARD NO.- 00000

When system has finished sending data to the printer the next LCD window is displayed momentarily. (The printer may still be printing data.)

COMMAND SEQUENCE
COMPLETED

Then, the device returns to *COMMAND MODE*.

PRINT CARD ZONES
COMMAND -> 30

PRINT DOOR DATA

COMMAND 31

This command prints Door Data for one or any given range of doors. Sample Report in APPENDIX C.

Example: Print Door Data Report, Doors 1 through 7.

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.

PRINT DOOR DATA
COMMAND -> 31

2. Enter **1** (first door number) and press *.

PRINT DOOR DATA
FIRST DOOR -> 01

3. Enter **7** (last door number) and press *.

PRINT DOOR DATA
LAST DOOR -> 07

System now prints the information for the defined card number range and displays the following window:

PRESS # TO STOP
DOOR NO.-> 00

When system has finished sending data to the printer the next LCD window is displayed momentarily. (The printer may still be printing data.)

COMMAND SEQUENCE
COMPLETED

Then, the device returns to *COMMAND MODE*.

PRINT DOOR DATA
COMMAND -> 31

PRINT CP SETUP

COMMAND 32

This command prints the current Central Processor (CP) setup. Sample Report in APPENDIX C.

Example: Print Central Processor Setup Report.

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.

PRINT CP SETUP
COMMAND -> 32

System now prints the Central Processor (CP) SETUP and displays the following window:

PRESS # TO STOP
PRINTING

To STOP the printing, press #. When the device has finished sending data to the printer the next LCD window is displayed momentarily. (The printer may still be printing.)

COMMAND SEQUENCE
COMPLETED

Then, the device returns to *COMMAND MODE*.

PRINT CP SETUP
COMMAND -> 32

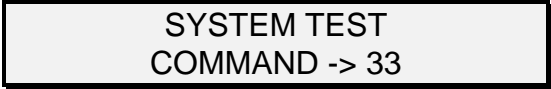
SYSTEM TEST

COMMAND 33

This command tests the entire system. The command also determines the number of doors attached to the Central Processor. This command must be selected after installing or removing a door unit.

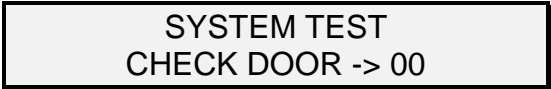
Example: Run System test.

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.




SYSTEM TEST
COMMAND -> 33

The system completes the test automatically. The following window is displayed while the operation is in progress.



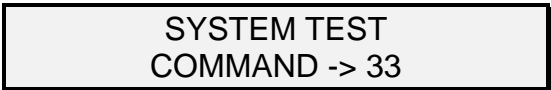
SYSTEM TEST
CHECK DOOR -> 00

The device will display the following LCD window momentarily.



NUMBER OF DOORS
ONLINE ARE = 29

Then, the device returns to *COMMAND MODE*.



SYSTEM TEST
COMMAND -> 33

REMOTE BYPASS

COMMAND 34

This command remotely unlocks a door as if a valid access had been completed locally at the door. All transactions are sent to the printer, showing date, time, door number and the operator number relative to the password used.

Example: Remotely bypass (unlock) Door 12.

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.

REMOTE BYPASS
COMMAND -> 34

2. Enter **12** (the door number to bypass) and press *.

PLEASE INPUT
DOOR 1-58 -> 12

The door is now remotely bypassed (unlocked) for the preset strike time. An audit trail of the remote bypass is sent to the printer; the system displays the following LCD window message momentarily.

COMMAND SEQUENCE
COMPLETED

Then, the device returns to *COMMAND MODE*.

REMOTE BYPASS
COMMAND -> 34

STAND ALONE

COMMAND 35

This command turns STAND ALONE ON and OFF in a single Door Unit or a range of Door Units. Setting STAND ALONE ON, allows card access when there is no communication to the Central Processor. (The time zone and antipassback function will not operate.) If STAND ALONE is set OFF (in the event of communication failure with the Central Processor) access with user cards will be denied (except cards greater than 30,000).

Example: Turn STAND ALONE ON at doors 1 through 58.

1. *Scroll or Jump* to this command. Then press *.

STAND ALONE
COMMAND -> 35

2. Enter **1** (first door) and press *.

STAND ALONE
FIRST DOOR -> 01

3. Enter **58** (last door) and press *.

STAND ALONE
LAST DOOR -> 58

4. Enter **1** (turn ON stand alone function) and press *.

STAND ALONE
0=OFF 1=ON 01

The device will display the following message momentarily and return to *COMMAND MODE*.

COMMAND SEQUENCE
COMPLETED

BACKLIGHT ON/OFF

COMMAND 36

This command turns the backlight ON and OFF at a single Door Unit or at a range of Door Units.

Example: Turn BACKLIGHT ON at doors 1 through 58.

1. *SCROLL* or *JUMP* to this command. Then press *.

BACKLIGHT
COMMAND -> 36

2. Enter **1** (first door) and press *.

BACKLIGHT
FIRST DOOR -> 01

3. Enter **58** (last door) and press *.

BACKLIGHT
LAST DOOR -> 58

4. Enter **1** (to turn ON) and press *.

BACKLIGHT
0=OFF 1=ON 01

The device will display the following message momentarily:

COMMAND SEQUENCE
COMPLETED

The Door Unit then returns to *COMMAND MODE*.

BACKLIGHT
COMMAND -> 36

TAMPER ALARM

COMMAND 37

This command turns ON or OFF the tamper alarm function of a Door Unit or range of Door Units. The function sets the alarm relay to close when tamper switch activates. Reporting to the Central Processor is unaffected.

Example: Turn TAMPER ALARM ON at doors 1 to 58.

1. *SCROLL* or *JUMP* to this command. Then press *.

TAMPER ALARM
COMMAND -> 37

2. Enter **1** (first door) and press *.

TAMPER ALARM
FIRST DOOR -> 01

3. Enter **58** (last door) and press *.

TAMPER ALARM
LAST DOOR -> 58

4. Enter **1** (ON tamper alarm) and press *.

TAMPER ALARM
0=OFF 1=ON 01

The display will show the following:

COMMAND SEQUENCE
COMPLETED

The Door Unit then returns to *COMMAND MODE*.

TAMPER ALARM
COMMAND -> 37

SA-1773A STATUS

COMMAND 38

This command displays the version of firmware in the Central Processor. This information is important when calling Smart Access Customer Service Department with a problem.

Example: Verify version of Central Processor.

1. *Scroll or Jump* to this command. Then press *.

SA-1773A STATUS
COMMAND -> 38

The following information (or similar) is displayed in the LCD window momentarily:

SA-1773A 01/09/90
CHKSUM=XXXX 9.9X

The Door Unit then returns to *COMMAND MODE*.

SA-1773A STATUS
COMMAND -> 38

COMM RATE

COMMAND 39

This command provides the means to set or change the Communication Rate for the printer/computer interface. Normal setting is 9600 baud. Consult factory for other settings. This command is a toggle.

Baud Rate Choices

- 38400
- 19200
- 9600
- 4800
- 2400
- 1200

Example: Set COMM RATE to 1200.

1. *SCROLL* or *JUMP* to this command.

```
COMM RATE 9600  
COMMAND -> 39
```

2. To select another Baud Rate, press the * until the desired value is reflected in the upper right hand corner of the display.

```
COMM RATE 1200  
COMMAND -> 39
```

INTERFACE

COMMAND 40

This command selects either Printer or Computer communication. If using the Computer setting, Access Control Manager (ACM) must be operational on the computer. Refer to COMMAND 39 for Baud Rate set-up. This command is a toggle.

Example: Set Central Processor to communicate with a printer.

1. *SCROLL* or *JUMP* to this command.

INTERF->> COMPUTER
COMMAND -> 40

2. Toggle to the Printer setting by pressing the *.

INTERF->> PRINTER
COMMAND -> 40

BEEP OFF-LINE

COMMAND 41

This command turns the internal annunciator of the Central Processor ON or OFF. With this setting ON, the annunciator beeps when a Door Unit (or other device on the 2 wire line), goes OFF-LINE. With the setting OFF, the annunciator will not beep. This command is a toggle.

Note: The annunciator will always beep whenever a key is pressed at the keypad.

Example: Turn annunciator OFF.

1. *SCROLL* or *JUMP* to this command.

BEEP OFFLINE	ON
COMMAND ->	41

2. Then toggle the BEEP OFF-LINE OFF.

BEEP OFFLINE	OFF
COMMAND ->	41

2 WIRE COMM

COMMAND 42

This command sets the Communication Rate for the 2 wire communication line. Normal setting is MULTI. Consult factory for other settings. This command is a toggle.

Example: Set two wire communication to MULTI.

1. *SCROLL* or *JUMP* to this command.

2 WIRE COMM 9600
COMMAND -> 42

2. Press the * until the desired value is reflected in the upper right hand corner of the display.

COMM RATE MULTI
Command -> 42

CARD OR CODE

COMMAND 43

This command sets the CARD OR CODE function in Door Units. With CARD OR CODE ON, users can gain access by either entering the correct ACCESS CODE, USER PIN or by inserting a valid user card. This command is a toggle.

Example: Turn CARD OR CODE ON, Doors 20 to 30.

1. *SCROLL* or *JUMP* to this command. Press the * to select the command.

CARD OR CODE
COMMAND -> 43

2. Enter **20** (first door number) and press *.

CARD OR CODE
FIRST DOOR -> 20

3. Enter **30** (last door number) and press *.

CARD OR CODE
LAST DOOR -> 30

4. Enter **1** (to turn on) and press *.

CARD OR CODE
0=OFF 1=ON 01

The display will show the following momentarily:

COMMAND SEQUENCE
COMPLETED

And, then return to *COMMAND MODE*.

CARD OR CODE
COMMAND -> 43

SET I/O MODES

COMMAND 44

This command programs the I/O Mode feature (or Time Windowing) for the I/O Board Model SA-1930. Modes are automatic changes that control the CONDITION of the I/O Board at a pre-programmed time and day(s). Door range is 1 to 64. There are 16 individual Mode Changes available in each I/O Board. Within each of these changes one of three (3) functions or conditions can be preprogrammed.

The functions are:

- Reporting ON or OFF
- Local Alarm ON or OFF
- Open or Close Output Relay

An I/O Board can perform 16 of the changes listed above. Each change will accomplish only one (1) function.

VERY IMPORTANT: A complete cycle requires the use of at least two (2) Mode Changes; example: one mode change to close an output relay and the second to open it. The following example completes only one (1) Mode Change or half a cycle. (A second change is required to reverse or change the action of the first.)

Example: Set Mode 1 in Board 20 to close Output Relay 1 & 3 Monday through Friday at 8 am. (All I/O Boards must be assigned a door number. See Installation Instructions for Assigning Door Numbers)

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.

SET I_O MODE(S)
COMMAND -> 44

2. Enter **12** (first door number) and press *.

SET I_O MODE(S)
FIRST DOOR -> 12

3. Enter **12** (last door number) and press *.

SET I_O MODE(S)
LAST DOOR -> 12

Note: We are only programming door 12. We select that device by entering the door number as the first door and the last. An alternate way, would be to press the * without entering a door number at step 4 (enter Last Door Number).

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4. Enter **1** (mode number) and press *.

SET I_O MODE(S)
MODE 1-16 -> 01

5. Enter **62** (the total of the desired days value, from the Days Chart, next page) and press *.

SET I_O MODE(S)
DAYS 0-255 -> 062

Days Chart

MODE INACTIVE	0
SUNDAY	1
MONDAY	2
TUESDAY	4
WEDNESDAY	8
THURSDAY	16
FRIDAY	32
SATURDAY	64
HOLIDAYS	128

Note: To arrive at the value for DAYS, add together the numbers associated with the particular days from the above table. That total will be the value for DAYS as indicated below:

MONDAY	2
TUESDAY	4
WEDNESDAY	8
THURSDAY	16
FRIDAY	32
TOTAL	62

6. Enter **8** (hour mode will take effect) and press *.

NOTE: 24 Hour (Military) Clock.

SET I O MODE(S)
HOUR 0-23 -> 08

7. Enter **0** (minute mode will take effect) and press *.

SET I O MODE(S)
MIN 0-59 -> 00

8. Enter **5** (MODE FUNCTION) and press *.

SET I O MODE(S)
MODE 0-6 -> 05

Mode Table

ACTION	MODE
No Action	0
Reporting ON	1
Reporting OFF	2
Alarm ON	3
Alarm OFF	4
Output Relay ON	5
Output Relay OFF	6

9. Enter **5** (VAR VALUE) and press *.

SET I O MODE(S)
VAR 0-255 -> 005

VAR TABLE

VAR SELECTION	VALUE
Input or Output 1	1
Input or Output 2	2
Input or Output 3	4
Input or Output 4	8
Input or Output 5	16
Input or Output 6	32
Input or Output 7	64
Input or Output 8	128

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Note: To arrive at the value for VAR below, add together the numbers associated with the particular input or output from the VAR TABLE. That total will be the value for VAR as indicated below:

Output 1	1
<u>Output 3</u>	<u>4</u>
Total VAR Value	5

The display will show the following:

COMMAND SEQUENCE
COMPLETED

And then, return to *COMMAND MODE*.

SET I_O MODE(S)
COMMAND -> 44

Note: As each Mode Change does only one function change at a time, another mode must be programmed to reverse the above example.

SET PIN

COMMAND 45

This command programs USER Personal Identification Numbers (PIN) at Door Units. A USER PIN can be up to nine (9) digits long. There can be 2,048 USER PIN numbers in a Door Unit.

USER PIN's share the memory space of USER CARDS 1 to 2,048. Thus, if a USER CARD is valid, the corresponding USER PIN is also valid. When ACCESS OR is set ON, CARD ACCESS is set ON and COMMON ACCESS CODE is set OFF, access is granted by inserting a valid USER CARD OR by entering a valid USER PIN.

Example: Set USER PIN 145 to 123456789 in Door 15 and 16.

1. *SCROLL* or *JUMP* to this command. Select the command by pressing the *.

SET P.I.N.
COMMAND -> 45

2. Enter **15** (first door number) and press *.

SET P.I.N.
FIRST DOOR -> 15

3. Enter **16** (last door number) and press *.

SET P.I.N.
LAST DOOR -> 16

4. Enter **145** (user number) and press *.

SET P.I.N. FOR
USER NO. 0145

5. Enter **123456789** (USER PIN) and press *.

USER 0145
P.I.N. ->> 123456789

The display shows the following:

COMMAND SEQUENCE
COMPLETED

And then return to *COMMAND MODE*.

SET PIN
COMMAND -> 45

IMPORTANT NOTE: When programming USER PIN's from a Door Unit, checking is done to insure that duplicate USER PIN numbers do not exist. However, the Central Processor cannot check for duplicate

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USER PIN numbers. Thus, the possibility of a duplicate USER PIN number exists. IT IS RECOMMENDED TO MAINTAIN A MANUAL USER PIN NUMBER LOG.

PRINT PIN

COMMAND 46

This command is used to print the USER PIN numbers stored in a particular Door Unit. Sample reports can be found in APPENDIX C.

EXAMPLE: Print USER PIN numbers 1 to 100 from Door Unit 2.

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.

```
PRINT P.I.N.  
COMMAND -> 46
```

2. Enter **2** (door number) and press *.

```
PRINT P.I.N.  
CHECK DOOR -> 02
```

3. Enter **1** (first user) and press *.

```
PRINT P.I.N.  
FIRST USER -> 00001
```

4. Enter **100** (last user) and press *.

```
PRINT P.I.N.  
LAST USER -> 00100
```

The system sends data to the printer and displays the following:

```
PRESS # TO STOP  
USER NO. -> 01
```

At completion the next display will show:

```
PRINT P.I.N.  
COMMAND -> 46
```

NODE STATUS

COMMAND 47

This command displays the status of Door Units, I/O Modules and other devices on the two (2) wire communication line.

Example: Display if Door Unit 5 is online.

1. *SCROLL* or *JUMP* to this command and press the *.

DISPLAY NODE STATUS
COMMAND -> 47

2. Enter **5** (door number) and press *.

DISPLAY NODE STATUS
CHECK DOOR -> 05

The display shows the following momentarily:

NODE 05 IS NOW
ONLINE

And then returns to *COMMAND MODE*.

DISPLAY NODE STATUS
COMMAND -> 47

EGRESS DELAY

COMMAND 48

This command sets a timer that delays activation of the electric lock for a preset time from 0 to 30 seconds, thus controlling an opening utilizing the NFPA 101 Exception (allowing 15 or 30 second delay).

The system functions as follows: Upon opening the local alarm contacts of the door unit (connected to a switch in the exit device) the alarm will immediately sound but the strike relay will not change state until the EGRESS DELAY has elapsed.

Example: Set EGRESS DELAY to 15 seconds at Door Units 1 to 5.

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.

EGRESS DELAY
COMMAND -> 48

2. Enter **1** (first door) and press *.

EGRESS DELAY
FIRST DOOR -> 01

3. Enter **5** (last door) and press *.

EGRESS DELAY
LAST DOOR -> 05

NOTE: Setting EGRESS DELAY to 0 causes the Door Unit to open immediately upon valid access and the alarm input to function as normal.

4. Enter **15** (delay time) and press *.

EGRESS DELAY
DELAY 0-30 -> 15

The display will show the following:

COMMAND SEQUENCE
COMPLETED

And then return to *COMMAND MODE*.

EGRESS DELAY
COMMAND -> 48

ATM CARDS

COMMAND 49

This command turns ON and OFF the ATM CARD feature of the Model SA-1606A Door Unit. Turning ATM CARD ON allows valid access when any non-system card with encoded information on Track 2 is inserted into the card reader. (System (Smart Access user cards) operates as programmed.) This command is a toggle.

Example: Turn ATM CARD feature ON in doors 7 through 10.

1. *SCROLL* or *JUMP* to this command. Then press *.

ATM CARDS
COMMAND -> 49

2. Enter **7** (the first door number) and press *.

ATM CARDS
FIRST DOOR -> 07

3. Enter **10** (the last door number) and press *.

ATM CARDS
LAST DOOR -> 10

4. Enter **1** (for YES) and press *.

ATM CARDS
0=OFF 1=ON 1

After execution of the command, the following LCD message is displayed:

COMMAND SEQUENCE
COMPLETED

The unit will then return to *COMMAND MODE*.

ATM CARDS
COMMAND -> 49

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Example: Turn ATM CARD feature OFF in doors 24 through 34.

1. *SCROLL* or *JUMP* to this command. Then press *.

ATM CARDS
COMMAND -> 49

2. Enter **24** (the first door number) and press *.

ATM CARDS
FIRST DOOR -> 24

3. Enter **34** (the last door number) and press *.

ATM CARDS
LAST DOOR -> 34

4. Enter **0** (for OFF) and press *.

ATM CARDS
0=OFF 1=ON 0

After execution of the command, the following LCD message is displayed:

COMMAND SEQUENCE
COMPLETED

The unit will then return to *COMMAND MODE*.

ATM CARDS
COMMAND -> 49

GATE AGENT TIME

COMMAND 50

This command provides the method of entering the Gate Agent Time to a single door units or a range of door units. The Gate Agent Time is the amount of time allowed to board an aircraft before triggering a pre-alarm.

NOTE: This function is available only in Door Units ordered with the Airport option.

Example: Set allowable gate boarding time to 15 minutes in doors 7 through 10.

1. *SCROLL* or *JUMP* to this command and press *.

GATE AGENT TIME
COMMAND -> 50

2. Enter **7** (the first door number) and press *.

ATM CARDS
FIRST DOOR -> 07

3. Enter **10** (the last door number) and press *.

ATM CARDS
LAST DOOR -> 10

4. Enter **15** and press *.

AGENT TIME
0 - 255 015

After execution of the command, the unit will return to *COMMAND MODE* and display the following:

AGENT TIME 015
COMMAND -> 35

FIRE ALARM

COMMAND 51

This command sends the Model SA-1606A Door Unit the Fire Alarm signal via the RS485 two (2) wire communication line.

Example: Send FIRE ALARM signal to Door Units.

1. *SCROLL* or *JUMP* to this command. Then press *.

FIRE ALARM
COMMAND -> 51

After execution of the command the following LCD message is displayed momentarily:

COMMAND SEQUENCE
COMPLETED

The unit will return to *COMMAND MODE*.

FIRE ALARM
COMMAND -> 51

ALARM RESET FLAG

COMMAND 52

This command changes the way the Model SA-1606A Door Unit handles an ALARM RESET FLAG. With ALARM RESET FLAG set OFF, only a valid PROGRAM CARD or a valid GUARD TOUR CARD will reset alarms at the door. With ALARM RESET FLAG set ON, in addition to the above cards any valid USER CARD will also reset the alarm. This command is a toggle.

Example: Set ALARM RESET FLAG ON at Door 12.

1. *SCROLL* or *JUMP* to this command. Then press *.

ALARM RESET FLAG
COMMAND -> 52

2. Enter **12** (the first door number) and press *.

ALARM RESET FLAG
FIRST DOOR -> 12

3. Enter **12** (the last door number) and press *.

ALARM RESET FLAG
LAST DOOR -> 12

4. Enter **1** (for ON) and press *.

ALARM RESET FLAG
0=OFF 1=ON 1

After execution of the command, the following LCD message is displayed:

COMMAND SEQUENCE
COMPLETED

The unit will then return to *COMMAND MODE*.

ALARM RESET FLAG
COMMAND -> 52

EXIT <i>PROGRAM MODE</i>

COMMAND 53

This command exits *PROGRAM MODE*.

1. *SCROLL* or *JUMP* to this command. Then select the command by pressing *.

EXIT PROGRAMMING COMMAND -> 53

After selecting this command and pressing * or entering **100** and pressing the *, the unit will leave *PROGRAM MODE* and the display window will show the following:

READY 16:27:54 SAI TUES 04-21-89

APPENDIX A	PASSWORD LEVELS
------------	-----------------

- 1) VALIDATE CARD(S) LEVEL 3 and 4
- 2) INVALIDATE CARD(S)..... LEVEL 3 and 4
- 3) ACCESS CODE LEVEL 4
- 4) CARD ACCESS..... LEVEL 4
- 5) P. I. N. LEVEL 4
- 6) DOOR: OPEN/CLOSE LEVEL 4
- 7) STRIKE TIME LEVEL 4
- 8) DOOR OPEN LIMIT LEVEL 4
- 9) KEYPAD TIMEOUT LEVEL 4
- 10) ERROR LOGGING LEVEL 4
- 11) ACCESS LOGGING LEVEL 4
- 12) SET MODE(S) LEVEL 4
- 13) MODES ON/OFF LEVEL 4
- 14) SET TIME ZONE(S) LEVEL 4
- 15) SET DATE LEVEL 4
- 16) SET TIME LEVEL 4
- 17) SET HOLIDAY LEVEL 4
- 18) USER STATUS..... LEVEL 2, 3 AND 4
- 19) DURESS ALARM LEVEL 4
- 20) LOCAL ALARM..... LEVEL 4
- 21) DOOR ALARM..... LEVEL 4
- 22) CARD DURESS..... LEVEL 4
- 23) PASSWORD..... LEVEL 4
- 24) ASSIGN TIME ZONE..... LEVEL 3 AND 4
- 25) USER PRESENCE LEVEL 3 AND 4
- 26) SET DOOR IN/OUT LEVEL 4
- 27) CLEAR ALARM(S)..... LEVEL 3 AND 4
- 28) CLEAR BUFFER LEVEL 4
- 29) PRINT USER DATA LEVEL 2, 3 AND 4
- 30) PRINT USER ZONES..... LEVEL 2, 3 AND 4
- 31) PRINT DOOR DATA..... LEVEL 2, 3 AND 4

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- 32) PRINT CP SETUPLEVEL 2, 3 AND 4
- 33) SYSTEM TESTLEVEL 3 AND 4
- 34) REMOTE BYPASSLEVEL 1, 2, 3 AND 4
- 35) STAND ALONE..... LEVEL 4
- 36) BACKLIGHT ON/OFF LEVEL 4
- 37) TAMPER ALARM..... LEVEL 4
- 38) SA-1773 STATUS.....LEVEL 2, 3 AND 4
- 39) COMM RATE LEVEL 4
- 40) PRINTER/PC INTERFACE LEVEL 4
- 41) BEEP OFF-LINE LEVEL 4
- 42) WIRE COMM LEVEL 4
- 43) CARD OR CODE LEVEL 4
- 44) SET I O MODES LEVEL 4
- 45) SET PIN LEVEL 4
- 46) PRINT PIN LEVEL 4
- 47) DISPLAY NODE STATUS LEVEL 4
- 48) EGRESS DELAY LEVEL 4
- 49) ATM CARD LEVEL 4
- 50) GATE AGENT LEVEL 4
- 51) FIRE ALARM LEVEL 5
- 52) ALARM RESET FLAG LEVEL 4
- 53) EXIT PROGRAMMINGLEVEL 2, 3 AND 4

APPENDIX B

COMMAND LIST

- 1) VALIDATE CARD(S) Validates cards.
- 2) INVALIDATE CARD(S) Invalidates cards.
- 3) ACCESS CODE Sets Access Code.
- 4) CARD ACCESS Turns Card Access feature ON or OFF.
- 5) P. I. N. Turns PIN feature ON or OFF.
- 6) DOOR: OPEN/CLOSE Sets door OPEN or CLOSED.
- 7) STRIKE TIME Sets strike time
- 8) DOOR OPEN LIMIT Sets time allowed for door to be open.
- 9) KEYPAD TIMEOUT Sets time allowed to enter keypad operation.
- 10) ERROR LOGGING Turns Error Log ON or OFF.
- 11) ACCESS LOGGING Turns Access Log ON or OFF.
- 12) SET MODE(S) Programs Mode Change feature.
- 13) MODES ON/OFF Turns Modes feature ON and OFF.
- 14) SET TIME ZONE(S) Programs the six (6) Time Zones.
- 15) SET DATE Sets the date in the Central Processor and all Door Units.
- 16) SET TIME Sets the time in the Central Processor and all Door Units.
- 17) SET HOLIDAY Sets holiday schedule in the Central Processor and the Door Units.
- 18) USER STATUS Displays whether a particular card is valid or not in a selected door and if that user (card) is in the building.
- 19) DURESS ALARM Sets the alarm relays in the Door Units to respond to Duress.
- 20) LOCAL ALARM Sets the alarm relays in the Door Units to respond to local alarm.
- 21) DOOR ALARM Sets the alarm relays in the Door Units to respond to door alarm.
- 22) CARD DURESS Sets the Door Unit to have available the duress function when in card only mode.
- 23) PASSWORD Sets the password in the Central Processor.
- 24) ASSIGN TIME ZONE Assigns user cards to time zones and antipassback.
- 25) USER PRESENCE Programs user cards in and out of the facility.
- 26) SET DOOR IN/OUT Programs doors as IN doors or OUT doors and whether antipassback is Hard or Soft.
- 27) CLEAR ALARM(S) Clears alarms in the Central Processor and in Door Units selectively.
- 28) CLEAR BUFFER Clear memory buffers in the Door Units and the Central Processor selectively.

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- | | |
|---------------------|---|
| 29)PRINT CARD DATA | Prints on the system printer, which doors, a selected range of cards are valid or invalid in. |
| 30)PRINT CARD ZONES | Prints on the system printer, Time Zones information on a selected range of cards. |
| 31)PRINT DOOR DATA | Prints data about a particular door or range of doors. |
| 32)PRINT CP SETUP | Prints Central Processor setup report including Time Zone definitions, holiday schedules, password data and door communication information. |
| 33)SYSTEM TEST | Performs system test and signs doors onto the communication line. |
| 34)REMOTE BYPASS | Allows remote unlocking of a selected opening. |
| 35)STAND ALONE | Changes the setting of STAND ALONE in a particular Door Unit or a range of Door Units. |
| 36)BACKLIGHT ON/OFF | Changes the setting of BACKLIGHT in a particular Door Unit or range of Door Units. (Turns BACKLIGHT ON and OFF.) |
| 37)TAMPER ALARM | Changes the setting of the TAMPER ALARM in a particular Door Unit or range of Door Units. |
| 38)SA-1773 STATUS | Displays the firmware version of the Central Processor. |
| 39)COMM RATE | Set the communication rate (BAUD RATE) for the printer or computer. |
| 40)INTERFACE | This defines the communication interface to either Printer or Computer. |
| 41)BEEP OFFLINE | This command selects whether the Central Processor will beep when a door goes off-line. |
| 42)WIRE COMM | Selects speed of 2 wire communication. |
| 43)CARD OR CODE | Turns CARD OR CODE feature on and off. |
| 44)SET I O MODES | Sets the MODES in the I/O Module. |
| 45)SET PIN | Programs the USER PINS or Personal Identification Numbers. |
| 46)PRINT PIN | Sends the USER PIN listing to the printer. |
| 47)DISPLAY NODE | Displays in the LCD window the status of nodes (Door Units, I/O Modules, etc.). |
| 48)EGRESSSS DELAY | This command sets an Egress Delay in Door Units to coincide with the requiremnts of NFPA 101 exception. |
| 49)SET ATM CARDS | This command set the card reader to accept any magnetic strike card with ABA format information on track 2. |
| 50)SET GATE AGENT | This command sets the Gate Agent Time. |
| 51)FIRE ALARM | This command sends a Fire Alarm signal. |

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52)ALARM RESET FLAG This command sets the Alarm Reset of a Door Unit(s)
to respond to USER CARDS.

53)EXIT PROGRAMMING Exits program mode.

