

Access Control Series

MULTIPLE DOOR SYSTEM
MDS

Operations Manual

**Model SA-1773D-NET (Ver. 1)
NETWORK
CENTRAL PROCESSOR
Version 6
May 1995**



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TABLE OF CONTENTS

GENERAL INFORMATION.....	1
SAFETY INSTRUCTIONS	1
WARRANTY.....	1
SERVICE	1
PRODUCT DESCRIPTION.....	2
FEATURES.....	2
EMERGENCY PROGRAMMING	2
CENTRALIZED PROGRAMMING	2
TIME ZONES	3
ANTI-PASSBACK	3
PASSWORD PROTECTION.....	3
PASSWORD LEVEL	4
MESSAGE BUFFERING.....	4
LOCAL BEEPER.....	4
ALARM RELAY	4
TWO WIRE COMMUNICATIONS	5
ELECTRICAL SPECIFICATIONS	5
POWER REQUIREMENTS	5
RELAY RATINGS.....	5
COMMUNICATION	5
PROGRAMMING	6
POWER UP.....	7
REMOTE BYPASS	8
ENTERING PROGRAM MODE	9
SETUP USER INFO — COMMAND 1	10
G.I.N. ACCESS — COMMAND 2.....	13
CARD ACCESS — COMMAND 3.....	14
P. I. N. — COMMAND 4.....	16
DOOR: OPEN/CLOSE — COMMAND 5.....	18
STRIKE TIME — COMMAND 6	20
DOOR OPEN LIMIT — COMMAND 7.....	21
KEYPAD TIME OUT — COMMAND 8	22
ERROR LOGGING — COMMAND 9	23
ACCESS LOGGING — COMMAND 10	24
SET MODE(S) — COMMAND 11	25
DAYS CHART	26
MODES FUNCTION.....	27

MODES ON/OFF — COMMAND 12.....	29
SET TIME ZONE(S)— COMMAND 13	30
DAYS CHART	30
SET DATE — COMMAND 14.....	32
WK-DAY TABLE	33
SET TIME — COMMAND 15.....	34
SET HOLIDAY — COMMAND 16.....	35
DURESS ALARM — COMMAND 17	36
LOCAL ALARM — COMMAND 18	37
DOOR ALARM — COMMAND 19	38
CARD DURESS— COMMAND 20	39
PASSWORD — COMMAND 21	40
LEVEL CHART.....	40
SET DOOR: OUT/IN — COMMAND 22.....	42
CLEAR ALARM(S) — COMMAND 23	43
SYSTEM TEST — COMMAND 24.....	44
REMOTE BYPASS — COMMAND 25.....	45
STAND ALONE — COMMAND 26	46
BACKLIGHT ON/OFF — COMMAND 27.....	47
TAMPER ALARM — COMMAND 28	48
SA-1773D STATUS —COMMAND 29.....	49
COMM RATE — COMMAND 30.....	50
INTERFACE — COMMAND 31	51
2 WIRE COMM — COMMAND 32.....	52
SET I/O MODES — COMMAND 33.....	53
DISP NODE STATUS — COMMAND 34.....	57
EGRESS DELAY — COMMAND 35.....	58
GATE AGENT TIME — COMMAND 36.....	59
FIRE ALARM — COMMAND 37	60
ALARM RESET FLAG — COMMAND 38.....	61
EXIT PROGRAM MODE — COMMAND 39	62
APPENDIX A — PASSWORD LEVELS	63
APPENDIX B — COMMAND LIST	63

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-1773D-NET Central Processor features microprocessor circuitry, user friendly programmability (for emergency purposes only – see EMERGENCY PROGRAMMING below) and many powerful security features.

The MDS Model SA-1773D-NET Central Processor can centrally program up to 128 devices, such as our Model SA-1606-NET 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-1773D-NET 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-1773D-NET 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-1773D-NET Central Processor interfaces and communicates with the MDS Model SA-1606-NET 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-1773D-NET 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, GIN's and User Cards.

The MDS Model SA-1773D-NET 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 and sending messages to the computer network.

EMERGENCY PROGRAMMING

With this version of the MDS Model SA-1773D-NET Central Processor, **PROGRAMMING IS PROVIDED FOR EMERGENCY PURPOSES ONLY.** (This safeguard feature is so the system can be programmed in the event of computer or network failure.) **Programming from the Central Processor will invalidate the system synchronization.**

CENTRALIZED PROGRAMMING

The MDS Model SA-1773D-NET Central Processor offers centralized EMERGENCY programming for the entire access control alarm monitoring

system. Most commands available at the MDS Model SA-1773D-NET 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 13 SET TIME ZONE(S). Then, users (Cards, GIN's, etc.) must be assigned to a time zone (or groups of time zones) by using Command 1, SETUP USER INFO.

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 is assigned to individual users with Command 1, SET USER INFO.

PASSWORD PROTECTION

A multi-level password scheme has been included in your MDS Model SA-1773D-NET 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 21, PASSWORD.

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 computer network (Door Units when off-line).

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 31, BEEPER OFF-LINE or by using Command 24, 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). The alarm relay can also be activated by a magentic bond sensor.

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 a fiber optic communication link if necessary and extend distance beyond 4000 feet. Contact the factory for more information.

ELECTRICAL SPECIFICATIONS

Power Requirements

- 24VAC/40VA. 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.)
- Fiber Optic Cable with Adapters (contact factory for details)

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 **39** and then press ******. The global exit command (**100 ***) may also be used.
- The MDS Model SA-1773D-NET 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-1773D-NET Central Processor stores messages.

WARNING: PROGRAMMING AT THE SA1773D-NET IS PROVIDED FOR EMERGENCY PURPOSES ONLY.

Programming from the Central Processor will invalidate the system synchronization.

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POWER UP

When the MDS Model SA-1773D-NET Central Processor is first powered up, the unit automatically completes a self diagnostics and detects all devices attached to it's communication lines.

The LCD window displays the following:

```
DIAGNOSTICS  
SCAN BUFFER 1>256
```

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:

```
[00 00 ] 09:05:25  
S00 MON 4-20-99
```

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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.

```
[00 00] 09:05:25  
S00 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 1-96 12
```

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

```
[00 00] 09:06:15  
S00 MON 4-20-99
```

ENTERING PROGRAM MODE

To enable the MDS MODEL SA-1773D-NET 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-NET Door Unit and select (at a Door Unit) Command 23 REMOTE PROGRAMMING. The Central Processor will then enter *PROGRAM MODE*. A level 4 password should now be programmed (use Command 21), to enable entering *PROGRAM MODE* with just the password thereafter.)

Example: To enter *PROGRAM MODE*:

[00 00] 10:37:34
S00 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*.

SETUP USER INFO
COMMAND -> 01

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SETUP USER INFO

COMMAND 1

This command provides the ability to *SETUP* individual users in a single Door Unit or a group of Door Units. The command validates, invalidates, assign time zones, sets anti-passback, sets a special strike time (otherwise the Door Units strike time will be used), sets an expiration date and programs the G.I.N. or P.I.N. to one user at one or mode Door Units connected to this Central Processor. Door range is 1 through 96. User range is 1 through 65,535.

Example: Setup User 1 in Door Units 6 through 10 to a valid G.I.N. operable during Time Zones 1 and 2 with Anti-passback ON, a 20 second strike time, an expiration date of 12-31-95 and a G.I.N. of 12345.

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

```
SETUP USER INFO
COMMAND -> 01
```

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

```
SETUP USER INFO
FIRST DOOR -> 06
```

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

```
SETUP USER INFO
LAST DOOR -> 10
```

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

```
SETUP USER INFO
USER NO? 00001
```

4. Enter **1** (for valid user) and press *.

```
SETUP USER VAL
1/0 > VAL/INVAL 1
```

5. Enter **1** (for antipassback set ON) and press *.

```
ANTIPASSBACK ?
0=NO 1=YES 1
```

6. Enter **10** (for 10 second user strike time) and press *.

```
USER STRIKE 010
```

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7. Enter 3 (ZONE value, see ZONE TABLE below) and press *.

ZONE 0-255 -> 00003

ZONE TABLE

<u>ZONE</u>	<u>VALUE</u>
DISABLE	0
ZONE 1	1
ZONE 2	2
ZONE 3	4
ZONE 4	8
ZONE 5	16
ZONE 6	32
ZONE 7	64
ZONE 8	128

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

ZONE 1	1
ZONE 2	2
TOTAL	3

7. Enter 31 (user expiration day) and press *.

USER EXP DAY 31

8. Enter 32 (user expiration month) and press *.

USER EXP MONTH 12

9. Enter 94 (user expiration year) and press *.

USER EXP YEAR 94

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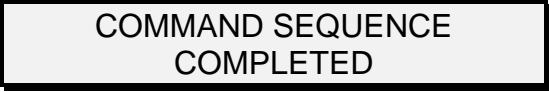
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10. Enter **12345** (USER PIN or GIN) and press *.



USER P.I.N. 12345

The systems accepts the new number and displays the following LCD window momentarily:



COMMAND SEQUENCE
COMPLETED

And then, returns to *COMMAND MODE*.



SETUP USER INFO
COMMAND -> 01

G.I.N. ACCESS**COMMAND 2**

This command turns the G.I.N. Access feature ON and OFF if selected Door Units. The door range is 1 through 96.

Example: Turn G.I.N. Access feature OFF for doors 1 through 19.

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

G.I.N. ACCESS
COMMAND -> 02

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

G.I.N. ACCESS
FIRST DOOR -> 01

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

G.I.N. ACCESS
LAST DOOR -> 19

3. Enter **0** (to turn feature OFF) and press *.

G.I.N. ACCESS
0=OFF 1=ON 0

The display will show the following momentarily:

COMMAND SEQUENCE
COMPLETED

And then, return to *COMMAND MODE*.

G.I.N. ACCESS
COMMAND -> 02

CARD ACCESS**COMMAND 3**

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 -> 03
```

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 -> 03
```

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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 -> 03
```

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 -> 03
```

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P. I. N.

COMMAND 4

This command turns ON and OFF the P. I. N. (Personal Identification Number) at selected door unit(s). (Issuing the P.I.N. command automatically turns ON the card reader.) Door range is from 1 through 96.

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 -> 04
```

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 -> 04
```

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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 -> 04
```

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 -> 04
```

DOOR: OPEN/CLOSE**COMMAND 5**

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 96.

Example: Unlock Doors 12 through 14.

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

```
DOOR: OPEN/CLOSE  
COMMAND -> 05
```

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 -> 05
```

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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 -> 05
```

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 -> 05
```

STRIKE TIME**COMMAND 6**

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 *.

```
SET STRIKE TIME  
COMMAND -> 06
```

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

```
SET STRIKE TIME  
FIRST DOOR -> 01
```

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

```
SET STRIKE TIME  
LAST DOOR -> 08
```

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

```
SET STRIKE TIME  
0 - 255 SEC 005
```

The display will show the following:

```
COMMAND SEQUENCE  
COMPLETED
```

And then return to *COMMAND MODE*.

```
SET STRIKE TIME  
COMMAND -> 06
```

DOOR OPEN LIMIT**COMMAND 7**

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 *.

```
SET OPEN LIMIT  
COMMAND -> 07
```

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

```
SET OPEN LIMIT  
FIRST DOOR -> 01
```

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

```
SET OPEN LIMIT  
LAST DOOR -> 32
```

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

```
SET OPEN LIMIT  
5 - 255 SEC 030
```

The display will show the following:

```
COMMAND SEQUENCE  
COMPLETED
```

And then return to *COMMAND MODE*.

```
SET OPEN LIMIT  
COMMAND -> 07
```

KEYPAD TIME-OUT**COMMAND 8**

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 TIMEOUT  
COMMAND -> 08
```

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

```
KEYPAD TIMEOUT  
FIRST DOOR -> 05
```

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

```
KEYPAD TIMEOUT  
LAST DOOR -> 08
```

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

```
KEYPAD TIMEOUT  
5 - 255 SEC 010
```

The display will show the following:

```
COMMAND SEQUENCE  
COMPLETED
```

And then return to *COMMAND MODE*.

```
KEYPAD TIMEOUT  
COMMAND -> 08
```

ERROR LOGGING**COMMAND 09**

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 -> 09
```

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 -> 09
```

ACCESS LOGGING**COMMAND 10**

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 -> 10
```

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 -> 10
```

SET MODE(S)**COMMAND 11**

This command programs the MODE CHANGE feature of the SA-1606-NET Door Units. 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. The functions are:

- Set access to NO ACCESS
- Set access to OPEN DOOR AND LOG CARDS
- Set access to CARD ACCESS ONLY
- Set access to CARD ACCESS AND PIN
- Set access to GIN ONLY
- Set access to CARD ACCESS OR GIN
- Set access to CARD ACCESS AND PIN OR GIN
- Set access to OPEN DOOR
- Turn ACCESS AND ERROR LOG OFF
- Turn ACCESS AND ERROR LOG ON
- Turn ACCESS LOG ON
- Turn ERROR LOG ON
- Turn BACKLIGHT ON
- Turn BACKLIGHT OFF
- Turn ANTIPASSBACK ON
- Turn ANTIPASSBACK OFF

A Door Unit can perform 16 changes. 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 unlock and the second to re-lock. 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.

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SA-1773D-NET (5/95)

Example: In Door Units 1 through 4, set Mode 1 to *UNLOCK* the Door, Monday through Friday at 8:00 AM.

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

```
SET MODE(S)
COMMAND -> 11
```

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

```
SET MODE(S)
FIRST DOOR > 01
```

3. Enter **4** (last door number) and press *.

```
SET MODE(S)
LAST DOOR > 04
```

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

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

5. Enter **62** (days) and press *.

```
SET MODE(S)
DAYS 0-255 062
```

Note: To arrive at the value for DAYS, add together the numbers associated with the particular days from the table on the next page.

DAYS CHART

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

SMART ACCESS INC.

SA-1773D-NET (5/95)

Example: The total for the example will be the total value of 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 MODE(S)
HOUR 0-23 08

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

SET MODE(S)
MIN 0-59 00

8. Enter **1** (mode-function, see chart below) and press*.

SET MODE(S)
PICK 0-15 -> 1

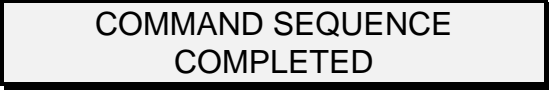
MODES FUNCTION

NO ACCESS	0
OPEN DOOR, LOG CARDS	1
CARD ACCESS ONLY	2
CARD ACCESS AND PIN	3
G.I.N. ONLY	4
CARD ACCESS OR G.I.N.	5
CARD ACCESS AND P.I.N. OR	6
OPEN DOOR	7
ACCESS & ERROR LOG OFF	8
ACCESS & ERROR LOG ON	9
ACCESS LOG ON	10
ERROR LOG ON	11
BACKLIGHT ON	12
BACKLIGHT OFF	13
ANTI-PASSBACK ON	14
ANTI-PASSBACK OFF	15

SMART ACCESS INC.


SA-1773D-NET (5/95)

The device will display the following LCD window momentarily:



COMMAND SEQUENCE
COMPLETED

And then, return to *COMMAND MODE*.



SET MODE(S)
COMMAND -> 11

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

MODES ON/OFF**COMMAND 12**

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 -> 12
```

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 -> 12
```

SET TIME ZONE(S)

COMMAND 13

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

SMART ACCESS INC.

SA-1773D-NET (5/95)

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

SMART ACCESS INC.

SA-1773D-NET (5/95)

SET DATE

COMMAND 14

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 -> 14
```

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
```

SMART ACCESS INC.

SA-1773D-NET (5/95)

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 -> 14

SET TIME**COMMAND 15**

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 -> 15
```

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 -> 15
```

SET HOLIDAY**COMMAND 16**

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 -> 16
```

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 -> 16
```

DURESS ALARM**COMMAND 17**

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 -> 17

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 -> 17

LOCAL ALARM**COMMAND 18**

This command toggles ON and OFF the assignment of the alarm relay to respond to the local alarm input. This relay may be connected to an external alarm device or other external Annunciator.

Example: Set LOCAL ALARM at door 5 through 10 to ON.

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

LOCAL ALARM
COMMAND -> 18

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 -> 18

DOOR ALARM**COMMAND 19**

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 -> 19

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 -> 19

CARD DURESS**COMMAND 20**

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 time-out) 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 -> 20

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 -> 20

SMART ACCESS INC.

SA-1773D-NET (5/95)

PASSWORD

COMMAND 21

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 -> 21

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.

SMART ACCESS INC.

SA-1773D-NET (5/95)

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

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

```
PASSWORD
0-65535 -> 00078
```

The display will show the following:

```
COMMAND SEQUENCE
COMPLETED
```

And then, return to *COMMAND MODE*.

```
PASSWORD
COMMAND -> 21
```

SET DOOR: OUT/IN**COMMAND 22**

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 -> 22
```

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 -> 22
```

CLEAR ALARM(S)**COMMAND 23**

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 -> 23

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*.

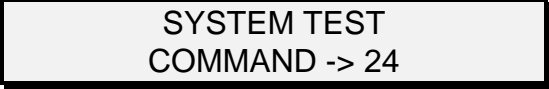
CLEAR ALARM(S)
COMMAND -> 23

SYSTEM TEST**COMMAND 24**

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.

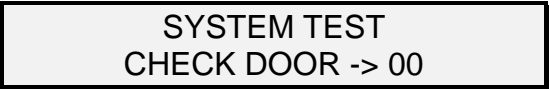
Example: Run System test.

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




SYSTEM TEST
COMMAND -> 24

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



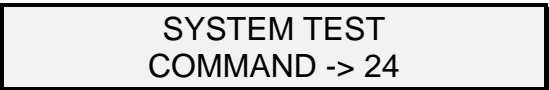
SYSTEM TEST
CHECK DOOR -> 00

The device will display the following LCD window momentarily.



NUMBER OF DOORS
ONLINE ARE = 029

Then, the device returns to *COMMAND MODE*.



SYSTEM TEST
COMMAND -> 24

REMOTE BYPASS**COMMAND 25**

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 -> 25

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 -> 25

STAND ALONE**COMMAND 26**

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 -> 26

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:

COMMAND SEQUENCE
COMPLETED

And then the system returns to *COMMAND MODE*.

STAND ALONE
COMMAND -> 26

BACKLIGHT ON/OFF**COMMAND 27**

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 -> 27

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 -> 27

TAMPER ALARM**COMMAND 28**

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 -> 28
```

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 system then returns to *COMMAND MODE*.

```
TAMPER ALARM  
COMMAND -> 28
```

SA-1773D NETWORK**COMMAND 29**

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-1773D NETWORK  
COMMAND -> 29
```

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

```
SA-1773D SEPT/99  
9.9A NET XY99H
```

The Door Unit then returns to *COMMAND MODE*.

```
SA-1773D NETWORK  
COMMAND -> 29
```

COMM RATE**COMMAND 30**

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 -> 30
```

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 -> 30
```

BEEP OFF-LINE**COMMAND 31**

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 ->	31

2. Then toggle the BEEP OFF-LINE OFF.

BEEP OFFLINE	OFF
COMMAND ->	31

SMART ACCESS INC.

SA-1773D-NET (5/95)

2 WIRE COMM

COMMAND 32

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 ->  32
```

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

```
COMM RATE  MULTI  
Command ->  32
```

SET I/O MODES**COMMAND 33**

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 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 -> 33
```

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).

SMART ACCESS INC.

SA-1773D-NET (5/95)

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 Function Table

ACTION	MODE FUNCTION
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(IABLE) 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

SMART ACCESS INC.

SA-1773D-NET (5/95)

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 -> 33
```

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

DISP NODE STATUS**COMMAND 34**

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 *.

```
DISP NODE STATUS  
COMMAND -> 34
```

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

```
DISP NODE STATUS  
CHECK DOOR -> 05
```

The display shows the following momentarily:

```
NODE 05 IS NOW  
ONLINE
```

And then returns to *COMMAND MODE*.

```
DISP NODE STATUS  
COMMAND -> 34
```

EGRESS DELAY**COMMAND 35**

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 -> 35

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 -> 35

GATE AGENT TIME**COMMAND 36**

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 -> 36
```

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

```
GATE AGENT TIME  
FIRST DOOR -> 07
```

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

```
GATE AGENT TIME  
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:

```
GATE AGENT TIME  
COMMAND -> 36
```

FIRE ALARM

COMMAND 37

This command sends the Model SA-1606A-NET 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 -> 37

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 -> 37

ALARM RESET FLAG**COMMAND 38**

This command changes the way the Model SA-1606A-NET 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 -> 38
```

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 -> 38
```

EXIT PROGRAM MODE**COMMAND 39**

This command exits *PROGRAM MODE*.

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

EXIT PROGRAMMING
COMMAND -> 39

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:

[00 00] 16:27:54
S00 TUES 04-21-99

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

1) SETUP USER INFO	LEVEL 3 and 4
2) G.I.N. ACCESS	LEVEL 3 and 4
3) CARD ACCESS	LEVEL 3 and 4
4) P.I.N ACCESS.....	LEVEL 3 and 4
5) DOOR: OPEN/CLOSE	LEVEL 4
6) STRIKE TIME.....	LEVEL 4
7) DOOR OPEN LIMIT	LEVEL 4
8) KEYPAD TIMEOUT.....	LEVEL 4
9) ERROR LOGGING.....	LEVEL 4
10) ACCESS LOGGING.....	LEVEL 4
11) SET MODE(S).....	LEVEL 4
12) MODES ON/OFF.....	LEVEL 4
13) SET TIME ZONE(S).....	LEVEL 4
14) SET DATE.....	LEVEL 4
15) SET TIME.....	LEVEL 4
16) SET HOLIDAY.....	LEVEL 4
17) DURESS ALARM	LEVEL 4
18) LOCAL ALARM	LEVEL 4
19) DOOR ALARM	LEVEL 4
20) CARD DURESS	LEVEL 4
21) PASSWORD	LEVEL 4
22) SET DOOR IN/OUT	LEVEL 4
23) CLEAR ALARM(S)	LEVEL 3 AND 4
24) SYSTEM TEST	LEVEL 3 AND 4
25) REMOTE BYPASS.....	LEVEL 1, 2, 3 AND 4
26) STAND ALONE	LEVEL 4
27) BACKLIGHT ON/OFF.....	LEVEL 4
28) TAMPER ALARM	LEVEL 4
29) SA-1773D-NET STATUS	LEVEL 2, 3 AND 4
30) COMM RATE	LEVEL 4
31) BEEP OFF-LINE	LEVEL 4
32) WIRE COMM.....	LEVEL 4
33) SET I O MODES	LEVEL 4
34) DISPLAY NODE STATUS.....	LEVEL 3 and 4
35) EGRESS DELAY.....	LEVEL 4
36) GATE AGENT	LEVEL 4
37) FIRE ALARM.....	LEVEL 5
38) ALARM RESET FLAG.....	LEVEL 4
39) EXIT PROGRAMMING.....	LEVEL 2, 3 AND 4

SMART ACCESS INC.

SA-1773D-NET (5/95)

APPENDIX B

COMMAND LIST

- 1) SETUP USER INFO Programs Users into Door Unit(s).
- 2) G.I.N. ACCESS Turns G.I.N. Access feature ON or OFF.
- 3) CARD ACCESS Turns Card Access feature ON or OFF.
- 4) P. I. N. Turns P.I.N. feature ON or OFF.
- 5) DOOR: OPEN/CLOSE Sets door OPEN or CLOSED.
- 6) STRIKE TIME Sets strike time
- 7) DOOR OPEN LIMIT Sets time allowed for door to be open.
- 8) KEYPAD TIMEOUT Sets time allowed to enter keypad operation.
- 9) ERROR LOGGING Turns Error Log ON or OFF.
- 10) ACCESS LOGGING Turns Access Log ON or OFF.
- 11) SET MODE(S) Programs Mode Change feature.
- 12) MODES ON/OFF Turns Modes feature ON and OFF.
- 13) SET TIME ZONE(S) Programs the six (6) Time Zones.
- 14) SET DATE Sets the date in the Central Processor and all Door Units.
- 15) SET TIME Sets the time in the Central Processor and all Door Units.
- 16) SET HOLIDAY Sets holiday schedule in the Central Processor and the Door Units.
- 17) DURESS ALARM Sets the alarm relays in the Door Units to respond to Duress.
- 18) LOCAL ALARM Sets the alarm relays in the Door Units to respond to the door units alarm input.
- 19) DOOR ALARM Sets the alarm relays in the Door Units to respond to door alarm.
- 20) CARD DURESS Sets the Door Unit to have available the duress function when in card only mode.
- 21) PASSWORD Sets the password in the Central Processor.
- 22) SET DOOR IN/OUT Programs doors as IN doors or OUT doors and whether antipassback is Hard or Soft.
- 23) CLEAR ALARM(S) Clears alarms in the Central Processor and in Door Units selectively.
- 24) SYSTEM TEST Performs system test and signs doors onto the communication line.
- 25) REMOTE BYPASS Allows remote unlocking of a selected opening.
- 26) STAND ALONE Changes the setting of STAND ALONE in a particular Door Unit or a range of Door Units.
- 27) BACKLIGHT ON/OFF Changes the setting of BACKLIGHT in a particular Door Unit or range of Door Units. (Turns BACKLIGHT ON and OFF.)

SMART ACCESS INC.

SA-1773D-NET (5/95)

- 28) TAMPER ALARM Changes the setting of the TAMPER ALARM in a particular Door Unit or range of Door Units.
- 29) SA-1773D-NET STATUS Displays the firmware version of the Central Processor.
- 30) COMM RATE Set the communication rate (BAUD RATE) for the computer.
- 31) BEEP OFFLINE This command selects whether the Central Processor will beep when a door goes off-line.
- 32) WIRE COMM Selects speed of 2 wire communication.
- 33) SET I O MODES Sets the MODES in the I/O Module.
- 34) DISPLAY NODE Displays in the LCD window the status of nodes (Door Units, I/O Modules, etc.).
- 35) EGRESS DELAY This command sets an Egress Delay in Door Units to coincide with the requirements of NFPA 101 exception.
- 36) SET GATE AGENT This command sets the Gate Agent Time.
- 37) FIRE ALARM This command sends a Fire Alarm signal.
- 38) ALARM RESET FLAG This command sets the Alarm Reset of a Door Unit(s) to respond to USER CARDS.
- 39) EXIT PROGRAMMING Exits program mode