MONITOR xL™

Integrated Security Management

Advanced Installation Guide rev1.5

Also Supports

MONITOR ISM

Upgrades

verex

Features	Monitor ISM v4.3	Monitor xL v4.4
Areas	16	16
Area Groups	No	Yes
Area Arm/Disarm Priority	No	Yes
Common Area Arm/Disarm	No	Yes
Input points (on board - expansion)	8 - 128	12 - 256
Output points (on board - expansion)	4 - 128	2 – 128
Users	20 – 64000	20 – 64000
Doors	32	32 (Feature Expansion board)
Readers per door	2	2
Floors (per account)	124	124
Modules	24	24
LCD Keypad	Yes	Yes
LCD Keypad with Gprox II	No	Yes
LCD Keypad with Wiegand Interface	No	Yes
Keypad inputs	1	4
8 Point Expansion	Yes	Yes
16 Point Expansion	Yes	Yes
319.5Khz Wireless	Yes	Yes
868/900 Mhz Wireless	Yes	Yes
Map Module	Yes	Yes
Door Controller	Yes	Yes
Fire Module	Yes	Yes
Elevator Controller	Yes	Yes
8 zone suite	Yes	Yes
2 zone suite	Yes	Yes
Authority levels	30 -1000	30-1000
Profiles	4	50-1000
Schedules	50	50-250
Floor Schedules (Elevator control)	3 common	124 individual + previous 3
Holidays	30	50
Event Buffer	1000 – 65K	1000 – 65K
Video Integration	Yes	Yes
Dynamic Mapping	Yes	Yes
Photo badging	Yes	Yes
Arming levels	On/Stay/Off	On/Stay/Off
Point types	16	16
Custom Point types	20	20
Customized EOL Circuit Supervision	No	Yes
Communication Port	RS485,RS232	RS485
VBUS (additional equipment BUS)	No	Yes (future use)
8 parallel output interface	No	Yes
Bell 103 modem (300 Baud, North America)	Yes	Yes
World Wide Modem (2400 Baud)	No	Yes
Battery Capacity (max)	7AH	17AH
Local & Remote Diagnostics EN50131		
AC brownout detection with status display	No	Yes
Main panel voltage & current consumption	No	Yes
Battery charge current	No	Yes
Resistance being seen at inputs	No	Yes
Alarm reporting	SIA, CID, SIP 1	SIA, CID, SIP 1
TCP/IP	Yes	Yes
System Configuration	LCD Keypad, Software	LCD Keypad, Software
System Control	LCD Keypad, Software, Arming station	LCD Keypad, Software, Arming station

Contents

WARNING: Access Control, Suite Security and Elevator selections are only available with the addition of the "Feature Expansion Board" to the system.

NOTE: For equipment and simplified keypad configurations programming, see the Simplified Programming Guide 21-3601E.

Programming selections whose boxes are grey are not available for this version.

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Entering and Understanding Advanced Configurations

- Logon to the system as a service user. E.g. Default ID: “000”, service user PIN: “2482” or “7378” if the panel has communicated with the Director Software.
  NOTE: If the system Feature Set (S002↓00) is 5 or greater, keypad programming can not be done. Programming can only be done with the Director Software.
  NOTE: Default MASTER (end) USER code is ID 01 or 001, PIN 7793.

LCD Keypad Screen

```
Service
Enter PIN: ____
```

- When the control box tamper is activated, a service user has the authority to access system programming.

```
Menu Options
◄ Config   ►   ↓Ok
```

- Using the left and right arrow screen scrolling keys on the keypad scroll the menus until **Config** is displayed. Press Ok. “Config method” will display. Select “Advanced” with the arrow keys and press Ok.

```
S001:00    E-05Q34
↓OK      ↓+Group-↓
```

- The screen that begins Advanced programming will display.
  S001:00: this is the start of the **S**ystem program section. Each of the program sections begin with a letter. The next 3 digits (e.g. “001”) represent the first program section for System programming. The next 2 digits (e.g. “00” after the colon) represent a sub programming section of this main system program section.
  The letters for each of the programming sections are: **S:** System; **A:** Areas; **M:** Modules; **P:** Input Points; **E:** Equipment/Pseudo points; **B:** Programmable Outputs; **L:** Authority Levels; **I:** Profile; **W:** User Edit; **U:** Users; **H:** Holidays; **D:** Schedules; **T:** Custom Pt Type; **R:** DooRs; **G:** Area Group; **Z:** Shared Data Groups (Users and Holidays).
  E-05Q34: the version of the main controller firmware.
  ↓+Group-↓: Using the middle or right down arrow keys this term’s arrows are pointing to will scroll forward or backward through the various program sections (Groups). It will change the program section letter & display that section’s program selections for the same programming and sub programming section.
  ↓OK: Pressing the button below OK will enter the programming section displayed.

```
□.□.0.□.1.✓✓✓□□
↓Save       S002:1
```

- A sub programming section can display several defaulted selections that will affect the way the system operates. These selections can be changed to customize the system operation. A box “ □ ” represents that a programming selection has been disabled. A check mark “ ✓ “ means that it is enabled. With the cursor flashing under a specific selection, the selection can be toggled back and forth from a box to a check mark by pressing any key on the keypad.

  Other entries are numerical and with the cursor flashing under them they can be changed by pressing the desired number entry on the keypad from available selections. When entering a sub programming section and all its various selections, the section displayer (e.g. S002:1) appears in the lower right corner of the screen.

  When a selection has bee changed, always press the button below ↓Save to retain the change.

```
201.01.01. . . .
↓Save   ↓?  P001↓0
```

- A program section with a down arrow in its section displayer means if the down arrow button beneath it is pressed, the screen will change to the next input, output etc. and the same program selections for it.
- Pressing the keypad button below “ **↓?** “ when it displays in a screen, will cause a momentary screen to display related information. E.g. an input or output number associated with a module will display the module’s number (i.e. module # XX), what type it is (e.g. Point Expander module), the module’s serial number and its input or output number range. Pressing the button below “**↓✱** “ will display information about a specialized module such as RF wireless or a printer module.

Advanced Program Sections, Sub Program Sections and Selections

NOTE: For quick reference to locate Advanced Programming Section Selections, consult the Index at the back of this manual.

WARNING: Access, Elevator and Suite Security selections are only available with the addition of the "Feature Expansion Board" to the System.

Programming selections whose boxes are grey are not available for this version.

System Global Timer Delay Codes

00: undefined;	04: 5 sec;	08: 30 sec;	12: 2 min;	16: 15 min;	20: 60 min;	24: 6 hr;	28: 16 hr;
01: 1 sec;	05: 10 sec;	09: 45 sec;	13: 3 min;	17: 20 min;	21: 90 min;	25: 8 hr;	29: 20 hr;
02: 2 sec;	06: 15 sec;	10: 60 sec;	14: 5 min;	18: 30 min;	22: 2 hr;	26: 10 hr;	30: 1 day;
03: 3 sec;	07: 20 sec;	11: 90 sec;	15: 10 min;	19: 45 min;	23: 4 hr;	27: 12 hr;	31: 1 week

Program Section: S001 (System Wide Selections)

S001↓00 Keypad Selections
(left to right on keypad screen) **Example:**

```
14 ·03 ·01 ·0 ·1 ·1 ·0
↓Save          S001↓00
```

Default	Name	Selections	Description
14 (5 min)	Burglary Siren Time	**Siren Time:** See Timer Delay Codes Chart 00 = disabled to 22 = 2 hrs max.	How long a siren in the system will sound. (UK ACPO = 16: 15 min) (European = 17: 20 min)
03	Number of panel inputs	Multiply entries by four (4) E.g. 4 X 1 = 4. Enter "**1**" for 4 inputs. 4 X 2 = 8. Enter "**2**" for 8 inputs. 4 X 3 = 12. Enter "**3**" for 12 inputs. 4 X 4 = 16. Enter "**4**" for 16 inputs. 4 X 5 = 20. Enter "**5**" for 20 inputs.	MONITOR Panel default = 2 For VBUS input boards connected to the main controller VBUS port. 20 inputs maximum. 12 on main board and 1 VBUS input boards possible.
01	Number of panel outputs	Multiply entries by four (4) E.g. 4 X 1 = 4. Enter "**1**" for 4 outputs. 4 X 2 = 8. Enter "**2**" for 8 outputs. 4 X 3 = 12. Enter "**3**" for 12 outputs. 4 X 4 = 16. Enter "**4**" for 16 inputs. 4 X 5 = 20. Enter "**5**" for 20 inputs. 4 X 6 = 24. Enter "**6"** for 24 inputs. 4 X 7 = 28. Enter "**7**" for 28 inputs.	MONITOR Panel default = 2 (UK ACPO = 3: 12 outputs) For VBUS output boards or modem output boards connected to the main controller VBUS port. 26 outputs maximum. Program for 28 outputs and skip outputs 27 – 28. 2 relays on main board and 2 VBUS output boards possible or 1 VBUS output board and one 8 output modem board. Also see S001:06 -07.
0	Panel Type	0 = Monitor xL, 1 = MONITOR ISM, 2 = Future, 3 = Future.	
1	Module Bus (SNAPP) Baud Rate	0 = Auto Minimum (19K2), 1 = Auto Maximum 38K4	The communications speed between the main panel and the expansion modules.
1	Suite Security (Condo) Baud Rate **NOTE:** This feature is only available with the addition of the Director Software and Feature Expansion Board.	0 = Auto Minimum (19K2), 1 = Auto Maximum (38K4) 2 = 9600 (Auto Minimum), 3 = future.	The communications speed between the main panel and the Suite Security modules.
0	Fallback Users	0: No access; 1: All readable tokens; 2: All with valid site code; 3: 10 fallback users	Specific Cards granted access if door controller is unable to access the panel database. (UK ACPO = 3)

S001↓01 Keypad Selections (left to right on keypad screen)

Default	Name	Selections
WELCOME (16 available characters)	Main screen message	A greeting message that rotates with any other main screen messages. It can be customized with the cursor under a letter or in a blank space and pressing the desired keypad button to enter a particular letter/number. Use the left and right arrow keys to maneuver back and forth. Use the underscore key " _ " on the keypad to insert a space or clear a character. (UK ACPO = CHUBB SECURITY)

S001↓02 Keypad Selections
(left to right on keypad screen) **Example:**

```
000000 · □□□□□□□□□
↓Save          S001↓02
```

Default	Name	Selections	Description
000000	Panel Unique ID (Panel Code, System ID)	–	A (non-zero) number to identify the panel, site, or account to the Director software. For an existing system to be synchronized with the Director software, this must be a non-zero value set here to match the "Panel Code" in the software.
☐ (no)	Unlock Doors on Fire Alarm **NOTE:** This feature is only available with the addition of the Feature Expansion Board.	✓= Global Unlock ☐ (no)	Will a fire alarm unlock all controlled doors in the facility?
☐ (no)	Auto Update Card Version **NOTE:** This feature is only available with the addition of the Feature Expansion Board.	✓Allow automatic version update. ☐ Disable update	Whether or not replacement cards are to be granted entry, and the system is to be updated with the higher version number automatically. (This setting refers to fixed-ID cards with a version number).
☐ (no)	Delay Screen	✓(yes) ☐ (no)	(UK ACPO = ✓yes)
☐ (no)	Fast Restore	✓(yes) ☐ (no)	If a point restore is to be sent within 1 min. (as opposed to siren time-out). UK ver. is 12 sec. (UK ACPO = ✓yes)
☐ (no)	Ring Back Required	✓(yes) ☐ (no)	If monitoring station will cause keypad tone & siren to confirm area arming (for UL).
☐ (no)	Suite Secuirty System **NOTE:** This feature is only available with the addition of the Director Software and Feature Expansion Board.	0 = Normal, 1 = Different users per area.	
☐ (no)	Single Panel	✓(yes) ☐ (no)	Yes = Single Panel No = Multi Panel connection.
☐ (no)	Enable Wall Tamper	✓(yes) ☐ (no)	Main control box back tamper. (UK ACPO = ✓yes)

S001↓03 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
000000	3rd Party Password	–	This is a security 'key' that blocks an unauthorized connection to this panel i.e., by a PC running another copy of the Director software.

S001↓04 Keypad Selections
(left to right on keypad screen) **Example:**

```
00·0·0·0·0·□□□□·
↓Save        S001↓04
```

Default	Name	Selections	Description
00	Confirmed Alarm Time Out	Time table codes.	(UK ACPO = 18)
0	Maximum Number of Alarms per Point Arming State	0 = All, 1 = 1, 2 = 2, 3 = 3 Primarily for European Users.	(UK ACPO = 3)
0	Menu Navigation	0 = Standard, 1 = Ok-SOFT-3, 2 = Ok-SOFT-1, 3 = future.	
0	LCD Menu Style	0 = Standard, 1 = Ok-SOFT-3, 2 = Ok-SOFT-1, 3 = future.	
0	Unconfirmed Reset Mode	0 = None, 1 = Follow Confirm Alarm, 2 = Include Master, 3 = future.	
☐ (no)	Confirm Reset Service	✓(yes) ☐ (no)	(UK ACPO = ✓yes)
☐ (no)	Confirm Reset Master	✓(yes) ☐ (no)	
☐ (no)	Confirm Reset Challenged PIN.	✓(yes) ☐ (no)	
☐ (no)	Confirm Reset using Remote	✓(yes) ☐ (no)	

S001↓05 Keypad Selections (left to right on keypad screen)

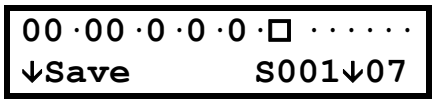
Default	Name	Selections	Description
01100	AC Reference Voltage	–	Main panel electrical mains operation. E.g. 01100 = 110.0 Decivolts (UK ACPO = 02200)
070	Battery Size	Amp hours X 10 E.g. display as 7.0	(UK ACPO = 17.0)
0	AC Sync	0=60 Hz, 1=50 Hz, 2=No sync required, 3=DC supply	Synchronization with AC line to maximize internal clock accuracy. With an unstable AC source, select "2: AC-No Sync" ('AC failure' will be reported if the frequency drops below 12.5 Hz). With a DC source, be sure to disable E003 (AC Trouble) under "Equipment Settings". DC supply option will not detect power failure condition and will not have a time base sync (UK ACPO = 1)
0	AC Brownout Mode	0=None, 1=Local alarm, 2=Alarm+report, 3=Report only	

S001↓06 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
001	VBUS Panel Output Base	See: **Main Panel Output Examples:** next	What number the outputs that will be used on the main controller's VBUS connection will start at.
001	Paging Output Base	See: **Main Panel Output Examples:** next	What number the outputs that will be used on the paging system will start at. Also see S005:08, 09
001	Output Base for: World Wide Modem with 8 output STU REDCARE interface or 8 output STU REDCARE interface STU = Subscriber Terminal Unit	See: **Main Panel Output Examples:** next	What number the outputs that will be used with the main control board output plug in boards will start at. (UK ACPO = 003)

Main Panel Output Examples: If the main panel's 2 relay outputs have a base of 1; this is the base number they start at. Assigning outputs to them would require the minimum amount of 4. Outputs 3 and 4 are not used. The next set of outputs could be the World Wide Modem with 8 output STU plugged in to the main controller modem port. Its base number would then be 5. 8 outputs assigned to it would make its output range 5 to 12. Next would be if an 8 output VBUS board was connected to the main controller VBUS port. Its base number would be 13 and assigned 8 outputs making its range 13 – 20. Instead of modem outputs and one VBUS output board, 2 VBUS output boards could be used in the same way. More outputs can follow through module programming after the main controller or pager outputs can be added next. The pager output's base number would then be 21 and could be assigned 4 outputs that would be 21 – 24 (maximum 16 pager outputs). Then output ranges for regular modules after the ones assigned to the main control unit can be done.

S001↓07 Keypad Selections
(left to right on keypad screen) **Example:**



Default	Name	Selections	Description
00	VBUS Panel # Outputs	0=0, 1=2, 2=4, 3=6, 4=8, 5=10, 6=12, 7=14, 8=16,	
00	Paging # Outputs	0=0, 1=2, 2=4, 3=6, 4=8, 5=10, 6=12, 7=14, 8=16	Also see S005:08, 09
0	Main Panel Plug In Board Outputs	0=0, 1=2, 2=4, 3=6, 4=8	(UK ACPO = 4)
0	VBUS Mode	0 – 3 future	
0	VBUS Speed	0 – 3 future	
☐	Allow Port Expanders	✓(yes) ☐ (no)	

S001↓08 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
000	Delinquent Arming Threshold	0 – 127 days	Delinquent Account Protection. Tracks panels that have not been operated for the number of days selected.
0	Area Group Mode	0=By area arming only 1=User Groups Only: users can turn on protection to all groups of areas they are authorized for. 2=Manual + User Groups: users can turn on protection to all groups of areas they are authorized for, individual area groups or areas. 3=Remote Group or Area or Local Group	Used in association with the Group Area program section G001↓00, the Arm/Disarm Map, M001↓03, Authority Profiles and Authority Levels for a user to have control over multiple areas.
☐	Report Delinquent Arming	✓(yes) ☐ (no)	Delinquent Account Protection. Reports panels that have not been operated for the number of days selected in Delinquent Arming Threshold. (Will not apply if Delinquent Arming Threshold = 000)

S002↓00 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
0	Operation Mode	Enter from right to left. 0 - Standard version 1- European with modem support 2- UK (DD243) (ACPO) 3-7 – for future extension	(UK ACPO = 2)
03	Feature Set	1-14 from the following table.	This setting determines the system capacity.

Feature Set Levels and Panel Capacities:

Feature	**01**		**02**		**03**		**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**
Users	20	20	100	100	**300**	**1,000**	1,000	1,000	2,000	4,000	10,000	10,000	20,000	20,000	20,000	64,000	64,000
Doors	**0**	**16**	**0**	**16**	**4**	**16**	16	32	32	32	32	32	32	32	32	32	32
Schedule	50	50	50	50	50	50	100	100	100	100	250	250	250	250	250	250	250
Authority	30	30	30	30	30	30	100	100	100	100	500	500	500	1,000	1,000	1,000	1,000
Profile	60	60	60	60	60	60	200	200	200	200	750	750	1,000	1,000	1,000	1,000	1,000
User Edit	10	10	10	10	10	10	50	50	50	50	750	750	1,000	1,000	1,000	1,000	1,000
Floor Authority	0	0	0	0	0	0	0	50	50	50	100	100	100	100	100	100	100
Point	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256
Outputs	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128
Area	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Log	1,024	1,024	1,024	1,024	1,024	1,024	2,048	2,048	2,048	2,048	8,192	8,192	8,192	16,364	16,364	65,536	32,768 (ISM), 16,364 (xL)
Module*	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Custom Point	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Pseudo Point	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Holiday	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Suite Security	0	0	0	0	0	0	0	60	60	60	60	60	60	60	60	60	60
Floor	0	0	0	0	0	0	0	124	124	124	124	124	124	124	124	124	124

* Plus capacity for one temporary service LCD keypad for connecting to the module bus at the main controller.

Additional RAM must be added with Feature Set 4 and greater. The “Feature Expansion Board” must be added to the system.

S002↓01 Keypad Selections
(left to right on keypad screen) **Example:**

Default	Name	Selections	Description
0	User Logon Mode	0 = Standard user ID logon or Card Number logon: 1 = 4 digit, 2 = 5 digit, 3 = 6 digit, 4 = 7 digit, 5 = 8 digit 6 = 9 digit, 7 = 10 digit	Users can enter their card # at LCD keypad & keypad readers.
0	Service Pin Mode	0: Permanent 1: Temporary 2 = 6 Digit Pin of the day	"6 digit pin of the day" service PIN mode related to: "Dealer ID" S002:04. Contact the Central Monitoring facility and provide them with this number to obtain the required PIN for the current day. While in this mode, any manually configured service PIN will be ignored.
0	Escort Required Mode	0 = escorted by users with Escort authority. 1 = escorted by Permanent Users. 2 = escorted by a Permanent or Temporary user.	Escort type a Visitor is accompanied by.
☐ (no)	5 Digit PIN	✓(yes) ☐ (no)	Whether or not user PIN entry will require 5 digits.
✓(yes)	PIN Duress	✓(yes) ☐ (no)	Refers to users reversing the last 2 digits when entering their PIN at a keypad to indicate they are being forced to enter (or forced to login at a keypad). **Note:** Applicable reader(s) must be set for "Card and/or **PIN**" entry. (UK ACPO = ☐ no)
☐ (no)	Access Panic Tokens **NOTE:** This feature is only available with the addition of the Feature Expansion Board.	✓(yes) ☐ (no)	
☐ (no)	Blind Card Re-enrollment **NOTE:** This feature is only available with the addition of the Feature Expansion Board.	✓(yes) ☐ (no)	Meaningful only if using card enabling feature
✓(yes)	Supports Intrusion	✓(yes) ☐ (no)	System Type. Viewing only. Dependent on setting in Director Software.
✓(yes)	Supports Access **NOTE:** This feature is only available with the addition of the Feature Expansion Board.	✓(yes) ☐ (no)	System Type. Viewing only. Dependent on setting in Director Software.
✓(yes)	Supports Central Station	✓(yes) ☐ (no)	System Type. Viewing only. Dependent on setting in Director Software.
☐ (no)	Supports: Suite Security Modules **NOTE:** This feature is only available with the addition of the Director Software and Feature Expansion Board.	✓(yes) ☐ (no)	System Type. Viewing only. Dependent on setting in Director Software.
☐ (no)	Supports: Elevators **NOTE:** This feature is only available with the addition of the Director Software and Feature Expansion Board.	✓(yes) ☐ (no)	System Type. Viewing only. Dependent on setting in Director Software.

S002↓02 Invalid Cards and PINs Detection Selections
Keypad Selections
(left to right on keypad screen) **Example:**

```
12·12·09·5·0·3·☐
↓Save     S002↓02
```

Default	Name	Selections	Description
12	Reset Timeout **NOTE:** The card feature is only available with the addition of the Feature Expansion Board.	1 – 31 (Delay Table), 12 = 2min (0 is meaningless and is not used)	The period of time required before there are no further invalid PIN/cards and a "Invalid PIN/Card Condition" resets.
12	Lockout Time **NOTE:** This feature is only available with the addition of the Feature Expansion Board.	1 – 31 (Delay Table), 12 = 2min (0 is meaningless and is not used)	The length of time a user is locked out of the system after X number of invalid PIN/Card tries are made, even if a valid try is made.
09	Maximum number of invalid cards **NOTE:** This feature is only available with the addition of the Feature Expansion Board.	00 = 1 invalid card, 01 = 2, 02 = 3, etc to 63 = 64	The amount of invalid cards used before an "Invalid card Condition" occurs.
5	Maximum number of invalid PINs	0 = 1 invalid PIN, 1 = 2, 2 = 3, 3 = 4, 5 = 6, 7 = 8	The amount of invalid PINs used before an "Invalid PIN Condition" occurs. (European = 02)
0	Invalid card detection type **NOTE:** This feature is only available with the addition of the Feature Expansion Board.	0 = invalid card detection is turned off, 1 = detect invalid cards, 2 = 1 + "high risk denied" cards, 3 = 1 & 2 + lower risk denied cards (all denied).	Invalid Card Examples: wrong version number, wrong site code, card not in database. High Risk Denied card examples: time expired, interlock violation, reader locked out, no area authority. Low Risk Denied card examples: no area disarming authority, wrong class, timeouts, anti-passback violations.
3	Number of different users for global lockout **NOTE:** The Card feature is only available with the addition of the Feature Expansion Board.	0 =4 different invalid users, 1 = 6, 2 = 8, 3 = 10.	Defines how many different users have to be individually in an invalid PIN or unauthorized card lockout condition before a global lockout will occur for all users.
☐ (no)	Transmit global lockout alarm **NOTE:** This feature is only available with the addition of the Feature Expansion Board.	✓(yes) ☐ (no)	☐ = invalid card and/or PIN causes local warning only. ✓ = local warning & reports to the monitoring station.

S002↓03 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
10 (60sec)	Point Reset Time	Delay table.	Delay time. (UK ACPO = 02) (European = 04)
0	Language Set	0=Eng,Fre,Dut,Spa, 1=Eng,Slk,Slk,Slk, 2=Future, 3=Future	
0	Remote FW Down/Up Load	0 = Allowed, 1= Must be authorized	
0	Arming Rules	0 = Normal operation. Entry/Exit keypad standard tone. 1 = Disarm to off by token. Entry/Exit keypad standard tone. 2 = Constant keypad Entry/Exit tone 3 = Disarm to off by token. Constant keypad Entry/Exit tone.	Standard Tone = intermittent Entry/Exit tone, constant alarm tone. Constant Tone = constant Entry/Exit tone, intermittent alarm tone. **Standard keypad tones are reversed**.

S002↓04 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
_ _ _ _ _	Keypad Lock Code		Equivalent of RF reader lock code for new RF keypads only.

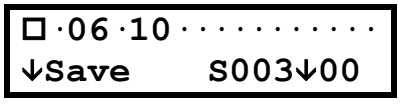
S002↓05 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
_ _ _ _ _	Dealer ID	0 – 65535	This setting is used with the "6 digit pin of the day" service PIN mode. Contact the monitoring station and provide them with this number to obtain the required PIN for the current day. While in this mode, any manually configured service PIN will be ignored. Related: "Service PIN Mode" is the 2nd field under S002:1.

S003↓00 Primary Card Format—Site Code Checking

WARNING: S003↓00 – S003↓05 Access Control related selections are only available with the addition of the "Feature Expansion Board".

Keypad Selections (left to right on keypad screen) **Example:**



Default	Name	Selections	Description
☐ (no)	Check for Site Code	✓(yes) ☐ (no)	Whether or not primary-format tokens must have a specific site code to be granted entry.
06	Site Code Position	1 – 40	The position of the 1st digit for the site/system code on these access tokens. Position value changes depending on site code length.
10	Site Code Length	1 – 16	The length of the site code for primary-format tokens (number of digits). Site code when represented as a digital #. Can not exceed 4 digits.

S003↓01 Primary Card Format—Site Codes
Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
0000	1st Site Code Value	0000 – 9999	The 1st of up to three site/system codes that can be encoded within access tokens to be used at the site.
0000	2nd Site Code Value	0000 – 9999	The 2nd of up to three site/system codes that can be encoded within the access tokens to be used at the site.
0000	3rd Site Code Value	0000 – 9999	The 3rd of up to three site/system codes that can be encoded within the access tokens to be used at the site.

If site code checking is enabled for the primary card/token format cards encoded with any one of up to three site code values can be used at the site. (All other cards will be globally denied access.)

S003↓02 Primary Card Format—Version Number
Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
☐ (no)	Check for Version No.	✓(yes) ☐ (no)	Whether or not primary-format tokens will be checked for a current version number.
02	Version No. Position	1 – 40	The position of the 1st digit for the version number on these access tokens.
04	Version No. Length	1 – 8	The length of the version number for primary-format tokens (number of digits).

This feature requires **V1.5** door/elevator controller firmware.

S003↓03 Primary Card Format—Basic Settings
Keypad Selections
(left to right on keypad screen) **Example:**

```
16·20·36·8·2·····
↓Save       S003↓03
```

Default	Name	Selections	Description
16	ID Number Position	01 – 40	The position of the 1st digit for the ID number on primary-format access tokens.
20	ID Number Length	01 – 32	The length of the card ID-number for primary-format tokens.
36	No. of Bits / Chars	01 – 40	The total number of bits (Wiegand) or characters (Magstripe) in the card data.
8	Bits per Character	01 – 08	The number of bits used to represent each character (for magnetic stripe cards).
2	Card/Token Format	0=none, 1=future (dallas), 2=Weigand, 3=Magstripe	The basic type of card or token associated with the primary card format settings.

32-Bit / 9-Digit Card IDs: This requires **V1.5** door/elevator controller firmware.

S003↓04 Odd Parity Information (Primary)
Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
36	Odd Parity Position	1 – 40	The position of the odd-parity 'checksum'.
18	Odd Parity Start	1 – 40	This is the position of the first data-bit to be included for odd-parity checking.
18	Odd Parity Length	0 – 40	If either the odd parity length = 0 or even parity length = 0, then parity will not be checked.

Odd/Even Parity checking: This feature (which applies only to Wiegand-format cards) helps prevent card misreads.
To disable parity checking: Set the 'Parity Length' to 0 (zero).

S003↓05 Primary Card Format—Even-Parity Checking
Keypad Selections (left to right on keypad screen)

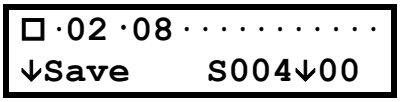
Default	Name	Selections	Description
01	Even Parity Position	1 – 40	The position of the even-parity 'checksum'.
02	Even Parity Start	1 – 40	This is the position of the first data-bit to be included for even-parity checking.
18	Even Parity Length	0 – 40	This is the number of bits to be included for even-parity checking. If either the odd parity length = 0 or even parity length = 0, then parity will not be checked.

Odd/Even Parity checking: This feature (which applies only to Wiegand-format cards) helps prevent card misreads.
To disable parity checking: Set the 'Parity Length' to 0 (zero).

S004↓00 Secondary Card Format—Site Code Checking

WARNING: S004↓00 – S004↓05 Access Control related selections are only available with the addition of the "Feature Expansion Board".

Keypad Selections
(left to right on keypad screen) **Example:**



Default	Name	Selections	Description
☐ (no)	Check for Site Code	✓(yes) ☐ (no)	Whether or not secondary-format tokens must have a specific site code to be granted entry.
02	Site Code Position	1 – 40	The position of the 1st digit for the site/system code on these access tokens. Position value changes depending on site code length.
08	Site Code Length	1 – 16	The length of the site code for secondary-format tokens (number of digits).Site code when represented as a digital #. Can not exceed 4 digits.

S004↓01 Secondary Card Format—Site Codes
Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
0000	1st Site Code Value	0000 – 9999	The 1st of up to three site/system codes that can be encoded within access tokens to be used at the site.
0000	2nd Site Code Value	0000 – 9999	The 2nd of up to three site/system codes that can be encoded within access tokens to be used at the site.
0000	3rd Site Code Value	0000 – 9999	The 3rd of up to three site/system codes that can be encoded within access tokens to be used at the site.

If site code checking is enabled for a secondary card/token format, cards encoded with any one of up to three site code values can be used at the site. (All other cards will be globally denied access.)

S004↓02 Card Version-Information (Secondary)
Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
☐ (no)	Check for Version No.	✓(yes) ☐ (no)	Whether or not secondary-format tokens will be checked for a current version number.
02	Version No. Position	1 – 40	The position of the 1st digit for the version number on these access tokens.
04	Version No. Length	1 – 8	The length of the version number for secondary-format tokens (number of digits).

This feature requires **V1.5** door/elevator controller firmware.

S004↓03 Secondary Card Format—Basic Settings
Keypad Selections
(left to right on keypad screen) **Example:**

```
10·16·26·8·2····
↓Save     S004↓03
```

Default	Name	Selections	Description
10	ID Number Position	1 – 40	The position of the 1st digit for the ID number on secondary-format access tokens.
16	ID Number Length	1 – 32	The length of the card ID-number for secondary-format tokens.
26	No. of Bits / Chars	1 – 40	The total number of bits (Wiegand) or characters (Magstripe) in the card data.
8	Bits per Character	1 – 8	The number of bits used to represent each character (for magnetic stripe cards).
2	Card/Token Format	0=none, 1=future (dallas), 2=weigand, 3=mag	The basic type of card or token associated with the secondary card format settings.

32-Bit / 9-Digit Card IDs: This requires **V1.5** door/elevator controller firmware.

S004↓04 Secondary Card Format—Odd-Parity Checking
Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
26	Odd Parity Position	1 – 40	The position of the odd-parity 'checksum'.
14	Odd Parity Start	1 – 40	This is the position of the first data-bit to be included for odd-parity checking.
12	Odd Parity Length	0 – 40	If either the odd parity length = 0 or even parity length = 0, then parity will not be checked.

Odd/Even Parity checking: This feature (which applies only to Wiegand-format cards) helps prevent card misreads.
To disable parity checking: Set the 'Parity Length' to 0 (zero).

S004↓05 Secondary Card Format—Even-Parity Checking
Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
01	Even Parity Position	1 – 40	The position of the even-parity 'checksum'.
02	Even Parity Start	1 – 40	This is the position of the first data-bit to be included for even-parity checking.
12	Even Parity Length	0 – 40	This is the number of bits to be included for even-parity checking.

Odd/Even Parity checking: This feature (which applies only to Wiegand-format cards) helps prevent card misreads.
To disable parity checking: Set the 'Parity Length' to 0 (zero).

S005↓00 Dialer Selections
Keypad Selections
(left to right on keypad screen) **Example:**

```
000000·1·0·0·0□✓
↓Save      S005↓00
```

Default	Name	Selections	Description
000000	Dialer Account Number (Primary)		The system's monitoring station receiver number that will identify the premises.
1	Telco Modem Type	1 = Bell 103, 2 = 8OP STU, 3 = WWMODEM 4 = WWMODEM 8OP STU	STU = Subscriber Terminal Unit WW = World Wide (UK ACPO = 2) (European = 3)
0	Telco Alarm Report Mode	0 = not used, 1 = primary, 2 = backup, 3 = dual 4 = future	NOTE: "0" turns dialer off and clears all the messages in the buffer
0	Telco Format	0 = SIA Level 2, 1 = CID, 2 = SIA Level 3 (future), 3 = Future	
0	Telco Sequence	0: ULC 1: UL compatible 2: Long 3: MONITOR Standard (in Canada use **0** or **3**)	Call Sequence Details: (P = Primary phone # attempt; B = Backup phone # attempt) 0 (ULC): PPBBPPBB / delay 60 min / PPBBPPBB / delay 60 min / PPBBPPBB / delay 60 min / PPBBPPBB. 1 (UL): PPBBPPBBPB / delay 10 min. 2 (Long): PPPPBBBB / delay 10 min / PPPPBBBB / delay 30 min / PPPPBBBB / delay 60 min / PPPPBBBB / delay 2 hours / PPPPBBBB. 3 (MONITOR Standard): PPBP / delay 5 min / PPBP / delay 10 min / PPBP / delay 30 min / PPBP / delay 60 min / PPBP / delay 2 hours / PPBP.
□ (no)	Telco – prioritized reporting	✓(yes) □ (no)	
✓(yes)	Telco – never allow blind dialing	✓(yes) □ (no)	Dials regardless of detecting a dial tone. (UK ACPO = ✓yes)

Telco = Telephone Company

S005↓01 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
Blank (16 characters)	Primary Phone Number	–	First Monitoring Station phone number the system will dial to transmit reports. The phone number can be preceded with **P** =pulse dialing (default), or **T** =Tone dialing, and can include **D** =2 sec Delay, **A** =Star key (tone dialing)**, #** = Pound Sign (tone dialing), and/or **W** = Wait for second dial tone. For **T**one dialing, ensure the phone line supports this.

S005↓02 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
Blank (16 characters)	Secondary Phone Number	–	Second Monitoring Station phone number the system will dial to transmit reports, if dialing the primary phone number is unsuccessful. The phone number can be preceded with **P** =pulse dialing (default), or **T** =Tone dialing, and can include **D** =2 sec Delay, **A** =Star key (tone dialing)**, #** = Pound Sign (tone dialing), and/or **W** = Wait for second dial tone. For **T**one dialing, ensure the phone line supports this.

S005↓03 Keypad Selections
(left to right on keypad screen) **Example:**

```
010 ·□□ · · · · · · ·
↓Save      S005↓03
```

Default	Name	Selections	Description
010	Telco Country Code	001 = Argentina … 088 = Yemen.	(UK ACPO = 085)

Country Codes

Argentina	1	Czech Republic	16	Guam	31	Latvia	46	Pakistan	61	Spain	75
Aamenia	2	Denmark	17	Hong Kong	32	Lebanon	47	Peru	62	Sweden	76
Australia	3	Dubai	18	Hungary	33	Liechtenstein	48	Phillippines	63	Switzerland	77
Austria	4	Egypt	19	Iceland	34	Luxembourg	49	Poland	64	Syria	78
Bahrain	5	El Savador	20	India	35	Malaysia	50	Polynesia French	65	Taiwan	79
Belgium	6	Equador	21	Indonesia	36	Maldova	51	Portugal	66	Thailand	80
Brazil	7	Estonia	22	Ireland	37	Malta	52	Qatar	67	Tunisia	81
Brunei	8	European Union	23	Isreal	38	Martinique	53	Reunion	68	Turkey	82
Bulgaria	9	Finland	24	Italy	39	Mexico	54	Romania	69	Uae	83
Canada	10	France	25	Japan	40	Moroco	55	Russia	70	Ukraine	84
Chile	11	Georgia	26	Jordan	41	Netherlands	56	Saudi Arabia	71	United Kingdom	85
China	12	Germany	27	Kazahstan	42	New Zealand	57	Singapore	72	USA	86
Columbia	13	Great Britain	28	Korea	43	Nigeria	58	Slovakia	73	Venezuela	87
Croatia	14	Greece	29	Krgyzstan	44	Norway	59	South Africa	74	Yemen	88
Cyprus	15	Guadalope	30	Kuwait	45	Oman	60				

☐ (no)	Parallel STU 8OP Supports Line Fail	✓(yes) ☐ (no)	World Wide Modem with 8 outputs for Redcare connection monitors Redcare communication failure. (UK ACPO = ✓yes)
☐ (no)	Parallel STU 8OP Line Fail Negative or Positive Polarity STU (Subscriber Terminal Unit)	✓(yes) ☐ (no)	World Wide Modem with 8 outputs for Redcare connection monitors Redcare positive or negative communication failure. ☐ (no) = Positive, ✓(yes) = Negative

S005↓04 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
000000	Dialer Account Number (Daytime)		
000	Dialer Daytime Schedule		
0	Dialer Daytime Mode	0=Not used, 1=Primary out of schedule Daytime Schedule, 2/3=future	

S005↓05 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
Blank (16 characters)	Daytime Phone Number	–	Daytime phone number the system will dial to transmit reports. The phone number can be preceded with **P** =pulse dialing (default), or **T** =Tone dialing, and can include **D** =2 sec Delay, **A** =Star key (tone dialing), **#** = Pound Sign (tone dialing), and/or **W** = Wait for second dial tone. For **T**one dialing, ensure the phone line supports this.

S005↓06 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
Blank (16 characters)	Telco Modem Init String	–	

Telco = Telephone Company

S005↓07 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
000000	SIP Account		SIP = Security IP Receiver
0	HSC Mode	0= NotUsed, 1=SIP1, 2=SIP2, 3=HSC POD (module)	HSC POD (High Security Communications) is a proprietary communications of CSG Security Inc. and not used in all markets.
0	HSC Timeout	0=90sec, 1=3min, 2=5min, 3=10min	
0	HSC Full Report By Area	0=full reporting always, 1=use area emergency/full setting	
0	SIP Baud Rate	0=150, 1=600, 2/3=future	
0	HSC SIP Auto Set	0=manual settings, 1=SIP receiver sets all variables	

S005↓08 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
0	Paging Mode	0 = None, 1 = Numeric SemaDigit w/ HS, 2 = Blind SemaDigit, 3 = SemaPhone,future	Also see S001:06, 07
☐ (no)	Paging Output Data	✓(yes) ☐ (no)	Also see S001:06, 07

S005↓09 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
Blank (16 characters)	Paging Phone Number	–	Also see S001:06, 07 Paging phone number the system will dial to transmit reports. The phone number can be preceded with **P** =pulse dialing (default), or **T** =Tone dialing, and can include **D** =2 sec Delay, **A** =Star key (tone dialing), **#** = Pound Sign (tone dialing), and/or **W** = Wait for second dial tone. For **T**one dialing, ensure the phone line supports this.

S005↓10 Keypad Selections
(left to right on keypad screen) **Example:**

```
00000·0·0·0·0·0·
↓Save    S005↓10
```

Default	Name	Selections	Description
00000	Main Control Board Address (Panel Serial Number)	Up to 5 digits, 0 = Undefined, 1 – 65534 = Director software connection, 65535 = Special Debug Mode	This is the serial number of the main control board that is automatically assigned.
0	Main Control Board Connection Type	**For viewing only.** These selections are only done at the Director software and not entered here. They appear automatically in this selection when the software first communicates with the main controller board. 0: Direct-Cable 1: External Modem 2: Internal Modem – Bell 103 3: IP 4: Future 5: Internal Modem – World Wide	This specifies the type of connection to a Director software PC.
0	Main Control Board Reporting Mode	0: No Main Control Board reporting; 1: Blocks of 256 events; 2: Alarms (indiv. / small blocks)	Whether or not alarms or blocks of events will be auto-transmitted to the Director software. Available with Monitor ISM using an external modem or IP or with Monitor xL using IP.
0	Main Control Board Shared phone line mode	0= Not shared, 1= Preemptive always, 2= User intervention required w/ time, 3= Timed	
0	Main Control Board BaudRate	0=AutoMin(38K), 1= AutoMax (115K), 2=AutoMin (56K), 3=future	

0	Main Control Board Config Dial Out	0 = No config dial out, 1= internal config dial out, 2 = external config dial out, 3 = IP	Configurations dial out from main control board to Director software PC. Internal: main control board plug in modem. External: external modem

S005↓11 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
Blank (16 characters)	Director Software Configurations Phone Number	–	Configurations phone number the system will dial to contact the Director software PC and transmit system programming. The phone number can be preceded with **P** =pulse dialing (default), or **T** =Tone dialing, and can include **D** =2 sec Delay, **A** =Star key (tone dialing), **#** = Pound Sign (tone dialing), and/or **W** = Wait for second dial tone. For **T**one dialing, ensure the phone line supports this.

S005↓12 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
Blank (16 characters)	Main Control Board Phone Number	–	The phone number can be preceded with **P** =pulse dialing (default), or **T** =Tone dialing, and can include **D** =2 sec Delay, **A** =Star key (tone dialing), **#** = Pound Sign (tone dialing), and/or **W** = Wait for second dial tone. For **T**one dialing, ensure the phone line supports this.

S005↓13 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
Blank (16 characters)	Main Control Board Modem Init String	–	

S005↓14 Keypad Selections
(left to right on keypad screen) **Example:**

```
04·0·0·✓□·····
↓Save    S005↓14
```

Default	Name	Selections	Description
04	Main Control Board Number of Rings to Answer	01 – 15	Used with North American or World Wide Modems. (UK ACPO = 02)
0	Suite Security Telco Mode **NOTE:** This feature is only available with the addition of the Director Software and Feature Expansion Board.	0 = report by area, 1 = report by DigitalAccountID + offset	
0	Suite Security Telco Reporting **NOTE:** This feature is only available with the addition of the Director Software and Feature Expansion Board.	0=None, 1=Condos report alarms etc. over telco dialer	
✓(yes)	Main Control Board Answering Machine Defeat	✓(yes) ☐ (no)	Used with North American or World Wide Modems.

☐ (no)	Main Control Board Config Callback Only	✓(yes) ☐ (no)	

Telco = Telephone Company

S005↓15 Keypad Selections
(left to right on keypad screen) **Example:**

```
0 ·00 ·00 ·00 ·00 ·0 ·
↓Save     S005↓15
```

Default	Name	Selections	Description
0	Telco Comms Test Mode	0=fixed, 1=variable based on backup, 2=variable based on any area out, 3=Daytime Schedule	
00	Telco Normal Comms Test Delay	Delay table	
00	Telco Backup Comms Test Delay	Delay table	
00	Telco Comms Test Hour	00 = midnight	The time (hour) for communications tests to occur.
00	Telco Comms Test Minute	0-59	The time (min.) for comms tests to occur.
0	Telco Comms Test Day	0=Sun …	The day for weekly comms tests to occur.

Telco = Telephone Company

S006↓0-9 Ten FallBack Users Keypad Selections (left to right on keypad screen)
10 Fallback Users maximum.

	Fallback User #1-10
0-9	00000
0 (UK ACPO)	00001
1 (UK ACPO)	00002
2 (UK ACPO)	00003
3 (UK ACPO)	00004
4 (UK ACPO)	00005
5 (UK ACPO)	00006
6 (UK ACPO)	00007
7 (UK ACPO)	00008
8 (UK ACPO)	00009
9 (UK ACPO)	00010
	Up to 5 digits. 0= None, 001-64000.

Custom Circuit Types S007↓00, 04, 08, 12 Circuit Name Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
0	Circuit Type	0 =Custom Type 1 = Normally Closed 2 = Normally Open 3 = Normally Closed Single Series EOL 4 = Normally Closed Single Parallel EOL 5 = Normally Open Single Series EOL 6 = Normally Open Single Parallel EOL 7 = Normally Closed Dual Type 1 EOL 8 = Normally Closed Dual Type 2 EOL 9 = Normally Open Dual Type 1 EOL 10 = Normally Open Dual Type 2 EOL	
(16 characters)	Circuit Band Name		

S007↓01, 05, 09,13 Circuit Band Definitions (Custom Resistor Values)
Keypad Selections
(left to right on keypad screen) **Example:**

```
0·1·1·1·1·····
↓Save    S007↓01
```

Name	Selections	Description
Band 1	0=Normal, 1=Alarm, 2=Tamper, 3=unused	
Band 2	0=Normal, 1=Alarm, 2=Tamper, 3=unused	
Band 3	0=Normal, 1=Alarm, 2=Tamper, 3=unused	
Band 4	0=Normal, 1=Alarm, 2=Tamper, 3=unused	
Band 5	0=Normal, 1=Alarm, 2=Tamper, 3=unused	

S007↓02, 06, 10, 14 Circuit Band Thresholds-1

Name	Selections	Description
Threshold 1	Split between band 1 and 2	
Threshold 2	Split between band 2 and 3	

S007↓03, 07, 11, 15 Circuit Band Thresholds-2

Name	Selections	Description
Threshold 3	Split between band 3 and 4	
Threshold 4	Split between band 4 and 5	

Default Circuit Values

Monitor xL

Type	Name	Bands	Thresholds
S007↓00: 01	**S007↓00:** NC	**S007↓01:** 0 1 1 1 1	**S007↓02:** 0132 1013 **S007↓03:** 1013 1013
S007↓04: 03	**S007↓04:** NC SERIES2K2	**S007↓05:** 2 0 1 1 1	**S007↓06:** 0298 0457 **S007↓07:** 1013 1013
S007↓08: 06	**S007↓08:** NO PARALL2K2	**S007↓09:** 1 0 2 2 2	**S007↓10:** 0298 0457 **S007↓11:** 1013 1013
S007↓12: 08	**S007↓12:** DUAL 2K2 EOL	**S007↓13:** 2 0 1 2 2	**S007↓14:** 0132 0322 **S007↓15:** 0457 1013

Monitor ISM **IMPORTANT: Custom circuit types only applies to Monitor ISM using Monitor xL version Input Modules.**

Type	Name	Bands	Thresholds
S007↓00: 01	**S007↓00:** NC	**S007↓01:** 0 1 1 1 1	**S007↓02:** 0132 1013 **S007↓03:** 1013 1013
S007↓04: 04	**S007↓04:** NC PARALL2K2	**S007↓05:** 0 1 2 2 2	**S007↓06:** 0132 0457 **S007↓07:** 1013 1013
S007↓08: 06	**S007↓08:** NO PARALL2K2	**S007↓09:** 1 0 2 2 2	**S007↓10:** 0298 0457 **S007↓11:** 1013 1013
S007↓12: 07	**S007↓12:** DUAL 2K2 EOL	**S007↓13:** 2 0 1 2 2	**S007↓14:** 0298 0457 **S007↓15:** 0638 1013

UK ACPO-European

Type	Name	Bands	Thresholds
S007↓00: 02	**S007↓00:** N0	**S007↓01:** 1 0 0 0 0	**S007↓02:** 0839 1013 **S007↓03:** 1013 1013
S007↓04: 08	**S007↓04:** 2K-ALM 1K-OK	**S007↓05:** 2 0 1 2 2	**S007↓06:** 0133 0307 **S007↓07:** 0436 1013
S007↓08: 08	**S007↓08:** TYPE2 2K2EOL	**S007↓09:** 2 0 1 2 2	**S007↓10:** 0132 0322 **S007↓11:** 0457 1013
S007↓12: 08	**S007↓12:** TYPE2 8K2EOL	**S007↓13:** 2 0 1 2 2	**S007↓14:** 0508 0619 **S007↓15:** 0815 1013

S008↓00 – 19 Custom Dialer Message (left to right on keypad screen)

Default	Name	Selections	Description
00	Message Type	–	
Blank (16 characters)	Custom Message	SIA uses 1st 5 characters, CID uses last 7 characters	

Program Section: A001 (Areas)

A0xx↓00 Keypad Selections Note: "xx" represents the area number.
(left to right on keypad screen) **Example:**

```
✓ ·OFFICE
↓Save      A001↓00
```

Default	Name	Selections	Description
✓(yes)	Enable this Area	✓(yes) ☐ (no)	Whether or not this Area is defined. Area 1 is enabled by default, and cannot be deleted.
" **OFFICE** " (12 characters)	Area Name	–	Customize the same as the "Welcome" message. (UK ACPO = "AREA DESCRIP")

A0xx↓01 Keypad Selections Note: "xx" represents the area number.
(left to right on keypad screen) **Example:**

```
09·10·13·0·☐☐✓☐☐
↓Save      A001↓01
```

Default	Name	Selections	Description
09 (45 sec)	Entry Delay	See below.	The time permitted to disarm the area after an entry door has been opened. (UK ACPO=8: 30 sec)
10 (60 sec)	Exit Delay	See below.	The time permitted to arm the area and exit. (European=09: 45 sec)
13 (3 min)	Garage Delay	See below.	An additional delay to arm or disarm a main area and have adequate time to enter or exit a protected garage.
0	Fail to Exit Mode	0=Door close, 1=Push button, 2 = Door or push, button, 3 = None	(UK ACPO, European=1)
☐ (no)	Stay on Fail to Exit	✓(yes) ☐ (no)	The area will automatically switch to 'Stay' mode if the user fails to exit after arming the area (i.e., if a door is not opened).
☐ (no)	Alarm on Fail to Exit	✓(yes) ☐ (no)	An alarm will be transmitted if the user fails to exit after arming the area (i.e., if a door is not opened). (UK ACPO, European =✓ yes)
✓(yes)	Terminate Exit Delay (Confirm Exit Delay)	✓(yes) ☐ (no)	The 'exit delay' will be reduced when the door closes after the user arms the area and exits. (UK ACPO=☐ no)
☐ (no)	Transmit Fail to Exit	✓(yes) ☐ (no)	
☐ (no)	Extend Exit-delay on Fail to Exit	✓(yes) ☐ (no)	(UK ACPO =✓ yes)

Entry/Exit/Garage Delay Times: 00 = none; 01 = 1 sec; 02 = 2 sec; 3 = 3 sec; 04 = 5 sec; 05= 10 sec; 06 = 15 sec; 07 = 20 sec; 08 = 30 sec; 09 = 45 sec; 10 = 60 sec; 11 = 90 sec; 12 = 2 min; 13 = 3 min; 14 = 5 min.

A0xx↓02 Keypad Selections
Note: "xx" represents the area number.
(left to right on keypad screen) **Example:**

```
0 ·2 ·0 ·0 ·□□□□□ · · ·
↓Save      A001↓02
```

Default	Name	Selections	Description
0	Exit Delay Warning Type	0 = Normal, 1= Warning tone during Exit Delay, 2= Warning continuous 3= Warning continuous + Block arming	(UK ACPO, European =3)
2	Pre-Alarm Delay	0=20sec; 1=30s; 2=60s; 3=5min; 4=10m; 5=30m; 6=1hr; 7=1.5hrs	During the delay, keypad sonalert(s) will be sounded, giving an authorized user time to "Silence" the alarm at a keypad. (Selecting "Verify User" will cancel the alarm transmission.) **Note:** This setting works only with sensors (input-points) that support "Pre-Alarm Warning". For details, refer to "T080 – T099 (Custom Input-Point Types)".
0	Report Mode	0 = Emergency 1= Full Reporting	System signals transmitted by system dialer to monitoring station.
0	Siren Squawk on Arming	0 = Normal, 1=On Arming, 2 = Fail to Arm, 3 = On Arming Or Fail to Arm	The 'siren' outputs for this area will be pulsed briefly when the area is armed to indicate arming was successful. (UK ACPO, European =2)
☐ (no)	Function Key PIN Required	✓(yes) ☐ (no)	Whether a user with "Function Key" authority will need to log in to use programmable function-keys 6 – 9 & 0.
☐ (no)	Dual Custody	✓(yes) ☐ (no)	Two valid user ID / PINs needed to disarm this area.
☐ (no)	Open Inter-lock Area	✓(yes) ☐ (no)	For all areas set to Yes, only one area can be disarmed at a time.
☐ (no)	Auto Arm on Door Close	✓(yes) ☐ (no)	Area will arm when any door closes (used with a bank vault door).
☐ (no)	Suite Security Area	✓(yes) ☐ (no)	

A0xx↓03 Area Schedule Selections Note: "xx" represents the area number.
Keypad Selections
(left to right on keypad screen) **Example:**

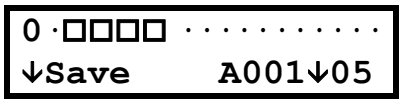
```
000 ·0 ·0 ·0 ·□□□□□ ·
↓Save      A001↓03
```

Default	Name	Selections	Description
000	Area Schedule	00 = none, 01-250 = schedule #	The schedule used to automate this area and enable all scheduling features (if applicable).
0	Out of Schedule Open	0=30min, 1= 2-hours 2 = Unlimited	Allowed duration for Disarming outside of schedule.
0	In Schedule Open	0=30min, 1= 2-hours, 2 = Unlimited	Allowed duration for Disarming within the schedule.
0	Work Late Time Extension	0=30 min, 1=1hr, 2=1.5hr, 3=2hr, 4=3hr, 5=4hr, 6=6hr, 7=8hr	The duration that the scheduled closing time will be extended when a work-late button is pressed at an e.g. area's keypad.
☐ (no)	Limit to Midnight	✓(yes) ☐ (no)	Limit 'work-late' to not extend beyond midnight.
☐ (no)	Transmit Fail to Close	✓(yes) ☐ (no)	If an area is not armed at the end of its schedule, a fail to close is transmitted to the monitoring station.
☐ (no)	Auto Arm on Fail to Close	✓(yes) ☐ (no)	'Stay-on-fail-to-exit' and 'AutoArm-on-fail-to-close' cannot be ✓(yes) simultaneously.
☐ (no)	Allow Un-authorized Open	✓(yes) ☐ (no)	Authority needed to disarm after-hours. Whether or not users **without** '24-hr' authority will be able to disarm this area outside of **its** open/close schedule, and/or adjust the area closing time (i.e., 'worklate') after **their** schedule has expired. (For a non-scheduled area, this feature does not apply, since only 'Disarm' authority would be required.)
☐ (no)	Auto Disarm to Off Always	✓(yes) ☐ (no)	

A0xx↓04 Automation
Keypad Selections (left to right on keypad screen)
Note: "xx" represents the area number.

Default	Name	Selections	Description
000	Automatic Stay-Mode Schedule #	00 = none, 01-250 = schedule #	
0	Automatic Stay-Mode	0 = None 1 = Standard 'Auto Stay Mode' (Non-secure) 2 = Secure 'Auto Stay Mode' (Requires Area On before next automatic Stay To Off)	
0	Auto Disarm on Valid Token In Area Schedule **NOTE:** This feature is only available with the addition of the Feature Expansion Board.	0 = None, 1= Follow user authority 2 = Force to Stay 3 = Force to Off	The area will automatically disarm when a user/entrant is granted access in the area schedule.
0	Auto Disarm on Valid Token Out of Area Schedule **NOTE:** This feature is only available with the addition of the Feature Expansion Board.	0 = None, 1= Follow user authority 2 = Force to Stay, 3 = Force to Off	The area will automatically disarm when a user/entrant is granted access out of the area schedule.

A0xx↓05 Keypad Selections "xx" represents the area number.
WARNING: These Access Control features are only available with the addition of the "Feature Expansion Board".
(left to right on keypad screen) **Example:**



Default	Name	Selections	Description
0	Anti-Pass Back Auto Reset	0:don't autoreset 1:10Mins, 2:20Mins, 3:30Mins, 4:1Hr, 5:4Hrs, 6:8Hrs 7:12Hrs	Timed lock out condition for a card holder resets after they failed to read their card to enter/leave previously.
☐ (no)	Strict Anti-Pass Back Entry/Exit Enforcement	✓(yes) ☐ (no)	Whether users will be able to enter other areas without having been recorded as leaving the present one.
☐ (no)	No Anti-Pass Back Outside Check	✓(yes) ☐ (no)	Allows users who didn't 'badge' out of the facility to re-enter through an APB controlled area. With this setting, cards being used to enter from 'outside' of the facility will not be checked for being previously used to exit (although other APB rules will still apply). **Note**: Cannot be their last known area (to allow this, set APB auto-reset to e.g. 8 hrs).
☐ (no)	Lockout all Users on Invalid Card	✓(yes) ☐ (no)	✓(yes) Lockout all users, even when access is granted (in case of global lockout)
☐ (no)	Generate Tones on Invalid Card	✓(yes) ☐ (no)	Keypads sound when an invalid card is detected.

A0xx↓06 Area User Counters
Keypad Selections "xx" represents the area number.
WARNING: These Access Control features are only available with the addition of the "Feature Expansion Board".
(left to right on keypad screen)

Default	Name	Selections	Description
00000	Maximum Area Counter	0 – 16383	Maximum number of users counted in an area before an "area full" condition occurs.
00	Minimum Area Counter	0 – 15	Minimum number of users counted in an area before an "area empty" condition occurs.
0	Reset Before Schedule in Effect	1 – 7 0=Not used, 1=1hr prior... 2=2hr prior.. 3=3hr prior. 4=4hr prior. 5=5hr prior. 6=6hr prior. 7=7 hrs prior to In Schedule Time	User count resets to "0" at the time selected before the area's schedule starts. NOTE: there must be a schedule assigned to the area.
0	"Users in Area" Counts Increase or Decrease (Count Mode)	0 = "Normal": the user count for the area being entered will increase and the area being exited will be decreased. 1 = "User Area Based": the user count for the area being entered will increase and the last known area the user was in will be decreased. 2= Blind mode	Selection "1" NOTE: If "Timed Anti-pass Back" is selected and the timer expires, information about the area the user was last in will not exist. The user count for the area they just came from will be decreased.
☐ (no)	Reset On Disarm To Off	✓(yes) ☐ (no)	User count resets to "0" when the area is turned off.
☐ (no)	Reset On Arm To On	✓(yes) ☐ (no)	User count resets to "0" when the area is turned on.

A0xx↓07 Automatic Arming Note: "xx" represents the area number.
Keypad Selections
(left to right on keypad screen) **Example:**

```
01·0·0·1·□·········
↓Save      A001↓07
```

Default	Name	Selections	Description
01 (Immediate)	Extended Automatic Arming Delay	1 – 31 (Delay Table)	Safety margin delay before auto arming begins.
0	Extended Automatic Arming Mode	0 – 7 0=Disable 1=Arm if Count <= Min, 2=Arm if Inactive, 3=When Count<=Min OR Inactive, 4=When Count <= Min AND Inactive, 5,6,7 spare	Automatically arms an area based on counting users and/or "area activity monitoring".

0	Extended Automatic Arming Warning Level
	(Warning level when arming)
		0 – 3
		0=Ignore,
		1=Warn if users possibly left in area at time of arming,
		2=Block manually arming warn for auto arming, if usesr left in.
		3=Block all types of arming (manu or auto)
			1 = e.g. user count was not least # at arming.
			2 = e.g. by schedules or other automated arming.

1	Extended Automatic Arming Level	0 = (Arm to Stay) 1 = (Arm to On)	Effective if "Extended Auto Arm Mode" has an active setting.
☐ (no)	Extended Automatic Arming Only if Schedule Not in Effect	☐ (no) Both in and out of schedule. ✓(yes) Extended automatic arming when out of schedule.	NOTE: These selections apply if "Extended Auto Arm Mode" is enabled and there is an area schedule.

A0xx↓08 Keypad Selections (left to right on keypad screen)
Note: "xx" represents the area number.

Default	Name	Selections	Description
00	Activity Timeout	1 – 31 (Delay Table) 0 = Undefined	Time permitted after specific sensors in an area do not detect any activity and area is e.g. auto armed. Delay re-starts if activity is detected. Sensor Activity Detection Types: Entry/Exit, FAP motion sensors, door contacts, "Activity" Custom Point Types – see Custom Point programming section, Command Point – see Custom Point programming section.
☐ (no)	Include E/E Route FAP	✓(yes) ☐ (no)	Whether Entry/Exit Route & Entry/Exit Route FAP sensors are used to detect area activity. FAP – False Alarm Preventer point type.
☐ (no)	Include Doors	✓(yes) ☐ (no)	Doors are used to detect area activity.
☐ (no)	Alarm On No Activity	✓(yes) ☐ (no)	

A0xx↓09 "Common to Area" Map
Keypad Selections (left to right on keypad screen). Note: "xx" represents the area number.

Default	Name	Selections	Description
☐ (no) All Areas	Area 1 to Area 16	✓(yes) ☐ (no)	Auto arm /disarm shared areas. E.g. Office area and warehouse area with adjoining lunch room area. – Lunch room is auto armed when BOTH office and warehouse are armed. – Lunch room is auto disarmed when EITHER office or warehouse is disarmed. Cannot select current area.

A0xx↓10 "Area Priority" Map
Keypad Selections (left to right on keypad screen). Note: "xx" represents the area number.

Default	Name	Selections	Description
☐ (no) All Areas	Area 1 to Area 16	✓(yes) ☐ (no)	Determines the sequence that areas must follow when being armed / disarmed. E.g. bank premises area with vault area. – When arming – the premises can not be armed UNLESS the vault area is armed first. – When disarming – the vault area can not be disarmed unless the premises area is disarmed first.

A0xx↓11 Keypad Selections Note: "xx" represents the area number.
(left to right on keypad screen) **Example:**

```
00·00·0·0·········
↓Save      A001↓11
```

Default	Name	Selections	Description
00	Arming Priority	0 = No priority checking 1 = 1st to arm, 15 = last to arm	Areas are armed in order of 1st, 2nd and 3rd etc. according to their priority.
00	Disarming Priority	0 = No priority checking 1 = 1st to disarm, 15 = last to disarm	Areas are disarmed in order of 1st, 2nd and 3rd etc. according to their priority.
0	Arming Rules	0 = Common area never auto armed, manual only 1 = Common area auto armed if all shared areas armed, 2 = Common area auto armed if any shared area armed, 3=All Shared areas Auto armed if common area armed	
0	Disarming Rules	0 = Common area never auto disarmed, manual only 1 = Common area auto disarmed if any shared area disarmed 2 = Common area auto disarmed if all shared areas disarmed 3=All shared areas auto disarmed if common area disarmed	

Program Section: G001 (Group Area) for use with corresponding areas G001 – G016.

G0xx↓00 Keypad Selections Note: "xx" represents the area number.
(left to right on keypad screen)

Default	Name	Selections	Description
☐ (no)	Enable Group Area	✓(yes) ☐ (no)	For use with Area Group Mode S001↓08
Blank (12 characters)	Area Group Name	–	

G0xx↓01 Keypad Selections (left to right on keypad screen)
Note: "xx" represents the area number.

Default	Name	Selections	Description
☐ (no) All Areas	Area 1 to Area 16	✓(yes) ☐ (no)	Select the areas that will apply to Area Group Mode.

Program Section: M001 (Modules)

M0xx↓00 Keypad Selections Note: "xx" represents the module number: 01 – 24.
(left to right on keypad screen) **Example:**

```
00000·01·2·1·1·✓✓
↓Save    ↓?M001↓00
```

Pressing the keypad button under **↓?** will display the type of module and the module's input and output ranges.

Default	Name	Selections	Description
00000	Serial Number	00000 - 65535	5 digit # on sticker on module circuit board.
01	Area	01 – 16	Module assigned to which area? 2 Digits 01 – 16 = Area #
2	Inputs	0 = 00, 1 = 04, 2 = 08, 3 = 12, 4 = 16, 5 = 20, 6 = 24, 7 = 32	The number of input points (sensors) supported by the module. Default for Area 1: 4, Default for Area 2: 1
1	Outputs	0 = 00, 1 = 04, 2 = 08, 3 = 12, 4 = 16, 5 = 20, 6 = 24, 7 = 32	The number of programmable outputs supported by the module. Default for Area 1: 1, Default for Area 2: 1
1	Exit Delay	0 = Never. 1 = When arming to Stay or On *2 = Not used 3 = When arming to On	If the keypad has the Exit delay set to 1, this means that the keypad would be protected when the area goes into **Stay 1**, **2** or **On**. An exit delay occurs and, if Alarm on Fail to Exit is set in the area configuration, the system must see a door transition otherwise a Fail to Exit will result. Of course this would be an internal door whose level is set to 1 or 2 or 3. If the keypad is outside the protected area, the Exit delay is set to 0. When arming the area, the UI would not be affected.
✓(yes)	Entry/Exit Tones in Stay	✓(yes) ☐ (no)	Are E/E tones to sound at this (keypad) if a door opened with area armed to 'Stay'.
✓(yes)	Monitor Tamper	✓(yes) ☐ (no)	Note: ✓(yes) if module requires tamper, comms, substitution detection

(Definitions): Stay: Perimeter sensors monitored (plus any 24 hr sensors); **On:** All sensors monitored.

Keypad NOTES

- If the keypad module has the Exit delay set to 1, this means that the keypad would be protected when the area goes into **Stay** or **On**. An exit delay occurs and, if Alarm on Fail to Exit is enabled in the Area Program Section: **A0xx↓01**, the system must see a door transition otherwise a Fail to Exit Alarm will result. This would be an Entry/Exit door whose protection level is set to **Stay** or **On**.
- If the keypad module is outside the protected area, the Exit delay is set to 0. When arming the area, Alarm on Fail to Exit would not apply.

M0xx↓01 Keypad Selections
Note: "xx" represents the module number. (left to right on keypad screen) **Example:**

```
24 · 0 · 0 · 0 · 0 · 2 · ✓
↓Save   ↓? M001↓01
```

Default	Name	Selections	Description
24 (LCD G-ProxII Keypad)	Module Type (number)	See Module Selection Numbers below.	
0	LCD Keypad Default Display Mode	0=Rolling time, date/Message 1=Date only 2=future 3=future	
0	LCD Keypad Armed LED Display	0=Arming state always shown 1=Timed 2=future 3=never	(UK ACPO = 1)
0	LCD Keypad Arming Tone Mode	0=All E/E tones 1=No Exit tone 2=No Entry 3=No E/E Tones	
0	LCD Keypad Auto Disarm All On Silence	0=None 1=silence all User Areas 2=Disarm 3=Silence and disarm	(UK ACPO = 1)
2	LCD Keypad Verify User Mode	0=None 1=Auto Verify on Silence 2=Manual Verify 3=future	(UK ACPO = 0)
✓(yes)	LCD Keypad Multi-Badge Mode	✓(yes) ☐ (no)	For keypad modules with external readers only. Yes = triple badge mode No = double badge mode

Module Selection Numbers

1 = Map Pod, 2 = Fx LCD, 3 = Other, 4 = V1 Access, 5 = V1 Wireless, 7 = ISM LCD, 8 = ISM Input/Output, 9 = PDC, 10 = *HSC, 11 = Suite Security 8 zone, 12 = TDC, 14 = V2 Access, 15 = Elevator, 16 = Suite Security 2 zone, 17 = V2 Wireless (FA400), 18 = MF-FA Wireless, 19 = ITI SuperBus Wireless, 20 = IPlus, 21 = C2000, 22 = Inova PointMux, 23 = standard Monitor xL LCD, 24 = Monitor xL LCD GProxII (keypad reader), 25 = Monitor xL LCD (external reader), 29 = Monitor xL Input/Output, 32 = Monitor xL Power Supply, 33 = Wireless 868+900, 34 = Smart/Vigil, 35 = Wireless 868+900+(Australia), 36 = 2050 MIL250 9600 baud only, 37 = 2050 DC, 38 = 2050 IO16, 39 = 2050 I32, 40 = 2050 O32.

*HSC (High Security Communications) is a proprietary communications of CSG Security Inc. and not used in all markets.

M0xx↓02 Annunciation Map
Keypad Selections (left to right on keypad screen)
Note: "xx" represents the module number.

Default	Name	Selections	Description
Area 1 – 16: ✓(yes)	Area 1 to Area 16	✓(yes) ☐ (no)	AnnuAreaMap defines which areas the module can alert sirens, sonalerts and other sound notifications from.

M0xx↓03 Arm/Disarm Map
Keypad Selections (left to right on keypad screen)
Note: "xx" represents the module number.

Default	Name	Selections	Description
Area 1 – 16: ✓(yes)	Area 1 to Area 16	✓(yes) ☐ (no)	Defines which areas can be armed /disarmed from this e.g. keypad. Required for Area Group Mode assignments S001↓08

M0xx↓04 Exit Delay Map
Keypad Selections (left to right on keypad screen)
Note: "xx" represents the module number.

Default	Name	Selections	Description
Area 1 – 16: ✓(yes)	Area 1 to Area 16	✓(yes) ☐ (no)	Defines which areas also have an exit delay when the area this keypad is assigned to is armed

M0xx↓05 Keypad Selections Note: "xx" represents the module number.
WARNING: These Access Control features are only available with the addition of the "Feature Expansion Board".

(left to right on keypad screen) **Example:**

```
000 · 01 · 01 · 07 · 07 ·
↓Save    ↓? M001↓05
```

Pressing the keypad button under **↓?** will display the type of module and the module's point and output ranges.

Default	Name	Selections	Description
000	Schedule	0-250	
01	Single Badge In-Schedule Mode	0=None, 1=Auto logon, 2=Auto arm ON, 3=Auto Arm STAY, 4=Auto Disarm STAY, 5=Auto Disarm OFF, 6=Toggle OFF-STAY, 7=Toggle OFF-ON, 8=Toggle STAY-ON, 9=Extend Exit Delay, 10=Auto Work Late.	(UK ACPO=05)
01	Single Badge Out of Schedule Mode	Same selections as "Single Badge In Schedule Mode".	(UK ACPO=05)
07	Hold Badge In Schedule Mode	Same selections as "Single Badge In Schedule Mode".	(UK ACPO=02)
07	Hold Badge Out of Schedule Mode	Same selections as "Single Badge In Schedule Mode".	(UK ACPO=02)

M0xx↓06 Keypad Selections Note: "xx" represents the module number.
WARNING: These Access Control features are only available with the addition of the "Feature Expansion Board".
(left to right on keypad screen)

Default	Name	Selections	Description
01	Door Number		Whether it is the first door or second door on the door module.
03	Hold time (or Multi-Badge time)	00-07	Length of time (Delay Table) to present a card to invoke Hold Badge features (see M0xx:05 above) If module is Keypad with internal reader, this number is used by the Delay Table. If module is Keypad with external reader, this number is used to time the double or triple card swipes: 00=0.0 sec 04=2.0 sec 01=.75 sec 05=2.5 sec 02=1.0 sec 06=3.0 sec 03=1.5 sec 07=5.0 sec
☐ (no)	In or Out Reader	✓(yes) ☐ (no)	Assigned to: • A reader mounted outside an area door to track users that have entered an area. • A reader mounted on the inside of the door to track users that have left the area.
☐ (no)	In or Out Station	✓(yes) ☐ (no)	A reader that tracks a user's location e.g. used like a time clock.
☐ (no)	Badge Access Control	✓(yes) ☐ (no)	
☐ (no)	Hold PIN Prompt	✓(yes) ☐ (no)	Personal access device (card, fob) must be held at e.g. keypad reader for a response.
☐ (no)	Disable Single on Badge-Hold	✓(yes) ☐ (no)	This determines whether or not the action defined under 'single' (in or out of schedule) will also occur on a badge-hold action. Not selected: Badge-hold produces action defined under 'single' is included. Selected: Badge-hold action occurs by itself.
☐ (no)	Disarm Card + PIN	✓(yes) ☐ (no)	Must also use PIN to turn protection off after using access device (card, fob) at keypad with internal reader.

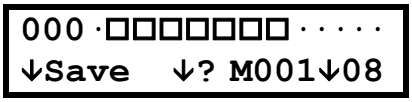
M0xx↓07 Keypad Selections Note: "xx" represents the module number.
WARNING: These Access Control features are only available with the addition of the "Feature Expansion Board".
(left to right on keypad screen) **Example:**

```
□·000·0·0·□□□···
↓Save  ↓? M001↓07
```

Pressing the keypad button under **↓?** will display the type of module and the module's input and output ranges.

Default	Name	Selections	Description
□ (no)	Reader Defined	✓(yes) □ (no)	
000	Card Lockout Schedule	00 = No scheduled lockout 01 – 250 Schedule	A schedule to specify when card access will be blocked
0	Enable or Disable Cards of Type	0 = None 1=Escort Req'd 2 =non-permanent users. 3 =all users	
0	Enable or Disable Mode	If enabling reader, see Note *1 . If disabling reader, see Note *2 .	Note *1: If enabling reader, 0=enable for 4 hrs, 1=enable for 8hrs, 2=enable for 12 hrs, 3=enable for 24 hrs, 4=enable for 1 week, 5=enable until midnight tonight, 6=enable permanently, 7=enable until out of schedule according to schedule 50. Note *2: If disabling reader, 0=disable card permanently, 1=disable card but set it so that it can be re-enabled later at an enabling station, 2= disable card permanently and trigger auxiliary output , 3= disable card enable re-enroll and trigger auxiliary output, 4 to 7 = not used, same as 1 (room for future expansion)
□ (no)	Arming Station or Keypad Reader connected to Reader LCD Keypad	✓(yes) □ (no)	NOTE: Bi-colour LED must be enabled for command station **R001↓7**.
□ (no)	Lockout In Schedule	✓(yes) □ (no)	Toggles the lockout between inside of the chosen schedule (✓), compared to outside of the schedule (□).
□ (no)	Enabling Reader	✓(yes) □ (no)	

M0xx↓08 Keypad Selections Note: "xx" represents the module number.
(left to right on keypad screen) **Example:**



WARNING: These Access Control features are only available with the addition of the "Feature Expansion Board".
(left to right on keypad screen)

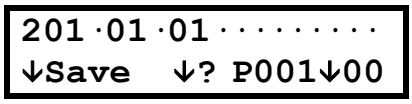
Default	Name	Selections	Description
000	Class Map Schedule	00 = Treat as In Schedule 01 – 250 Schedule	
☐ (no)	In Schedule A	✓(yes) ☐ (no)	
☐ (no)	In Schedule B	✓(yes) ☐ (no)	
☐ (no)	In Schedule C	✓(yes) ☐ (no)	
☐ (no)	Out of Schedule A	✓(yes) ☐ (no)	
☐ (no)	Out of Schedule B	✓(yes) ☐ (no)	
☐ (no)	Out of Schedule C	✓(yes) ☐ (no)	
☐ (no)	Enable Class Checking	✓(yes) ☐ (no)	

M0xx↓09 Keypad Selections Note: "xx" represents the module number.
WARNING: These Access Control features are only available with the addition of the "Feature Expansion Board".
(left to right on keypad screen)

Default	Name	Selections	Description
000	Card Mode Schedule	00 = Treat as In Schedule setting 01 – 250 (Schedule)	
000	Reader Mode Schedule	00 = Treat as In Schedule setting 01 – 250 (Schedule)	
0	Card Mode In Schedule	0=Card only 1= Card + PIN 2= Card or UID/ PIN 3= UID/ PIN only	
0	Card Mode Out of Schedule	0=Card only 1= Card + PIN 2= Card or UID/ PIN 3= UID/ PIN only	
0	Reader Mode In Schedule	0=Normal 1= Dual Custody 2= Escort 3= Future	
0	Reader Mode Out of Schedule	0=Normal 1= Dual Custody 2= Escort 3= Future	

Program Section: P001 (Inputs)

Pxx1↓00 Keypad Selections Note: "xx1" represents the input number.
(left to right on keypad screen) **Example:**



Pressing the keypad button under **↓?** will display the module the point is associated with and the module's point range.

Default	Name	Selections	Description
Example: **201**	Circuit Type	0: N/C (no EOL) 1: N/C with 2.2k EOL 2: Form "C" single resistor EOL & N/O with 2.2k EOL 3: Form C—dual 2.2k	First digit of the input's first 3 digit code for standard types only. Refer to S007:00 for Custom Circuit Types. A "000" 3 digit code is an undefined input.
Example: **201**	Point Type	01 - 33: See the Input Point Type Reference table. 80 - 99: Custom types programmed in section: T080 - T099.	Second 2 digits of the input's first, 3 digit code A "000" 3 digit code is an undefined input.
01	Area this input is assigned to.	–	–
01	Buffer Area	–	A secondary area that shares Entry/Exit doors with the above first area. If not a Buffer Area, enter the same area number as above, again here.

Pxx1↓1 Keypad Selections (left to right on keypad screen)
Note: "xx1" represents the input number.

Default	Name	Selections	Description
Example: " **FRONT DOOR** " (16 available characters)	Input # 1 Label	–	The input name that will appear in input Status, Alarm menus, etc. Edit the same as the Greeting Message, S001:04

Input Point-Type Reference

Point Type (###)	Class	Monitored for these Area Arming Level(s)	Monitoring Style	By-pass	Chime	Tx Off	Tx Stay	Tx On	SonIrt Off	SonIrt Stay	SonIrt On	Siren Off	Siren Stay	Siren On
01 (Entry Door)	Burg	Stay & On	Entry/Exit Door	–	✓	–	✓	✓	–	✓	✓	–	✓	✓
02 (Entry Route)	Burg	ON Only	Entry/Exit Route	✓	–	–	–	✓	–		✓	–	–	✓
03 (Perimeter)	Burg	Stay & On	Immediate	✓	✓	–	✓	✓	–	✓	✓	–	✓	✓
04 (Interior Motion)	Burg	ON only	Immediate	✓	–	–	–	✓	–		✓	–	–	✓
05 (Motion–FAP)	Burg	ON only	FAP	✓	–	–	–	✓	–		✓	–	–	✓
FAP: (False Alarm Preventor) If a FAP input is not OK longer than 10 seconds, an alarm condition occurs. If a FAP input is triggered and immediately resets, a 20 minute timer begins. If the same device is tripped or a different FAP device trips in the same 20 minutes, an alarm occurs.														
06 (Day Warning)	Burg	24hr	Immediate	✓	–	–	–	✓	✓	✓	✓	–	–	✓
07 (24hr Burglary)	Burg	24hr	Immediate	✓	–	✓	✓	✓	✓	✓	✓	✓	✓	✓
10 (Fire - A)	Fire-A	24hr	Immediate	–	–	✓	✓	✓	✓	✓	✓	✓	✓	✓
11 (Fire - Delayed)	Fire	24hr	15s delay	–	–	✓	✓	✓	✓	✓	✓	✓	✓	✓
12 (Fire - Immed)	Fire	24hr	Immediate	–	–	✓	✓	✓	✓	✓	✓	✓	✓	✓
13 (Hold-up)	holdup	24hr	Immediate	–	–	✓	✓	✓	–	–	–	–	–	–
14 (Aux Alert)	Emerg	24hr	Immediate	–	–	✓	✓	✓	✓	✓	✓	✓	✓	✓
20 (Supervisory)	Spvsr	24hr	Immediate	✓	–	✓	✓	✓	✓	✓	✓	–	–	–
30 (Local - 24hr)	Burg	24hr	Immediate	✓	–	–	–	–	✓	✓	✓	✓	✓	✓
31 (Local-Stay&On)	Burg	Stay & On	Immediate	✓	✓	–	–	–	–	✓	✓	–	✓	✓
32 (Future Use)	Burg	Future Use	Future Use	✓	✓	–	–	–	–	–	✓	–	–	✓
33 (Local - ON only)	Burg	ON only	Immediate	✓	✓	–	–	–	–	–	✓	–	–	✓
80 - 99 (Custom)	Custom point types as defined in **T080 - T099**. Custom point types provide full control over input point characteristics, plus additional features including arm/disarm keyswitch operation, and setting up garage door sensors, Vault/Safe class input points, plus guard-tour points, and work-late buttons.													

Default North American Input Settings (Pxx1:00 and Pxx1:01)

Input Pt.	Circuit/Pt. Type	Typically Used with	Area	*Buffer Area	Name (Pxxx:01)
P001	201	Entry/Exit Door (w/o access ctrl)	01	01	FRONT DOOR
P002	202	Entry Route - ON Only	01	01	LOBBY MOTION
P003	204	Interior - ON Only	01	01	OFFCE MOTION
P004	204	Interior - ON Only	01	01	INTR MOTION
P005	204	Interior - ON Only	01	01	REAR MOTION
P006	203	Perimeter - Stay & On	01	01	PERIMETER DR
P007	203	Perimeter - Stay & On	01	01	OHD (over head door)
P008	201	Entry/Exit Door (w/o access ctrl)	01	01	REAR DOOR
P009	203	Perimeter - Stay & On	01	01	PERIMETER DR
P010	203	Perimeter - Stay & On	01	01	PERIMETER DR
P011	203	Perimeter - Stay & On	01	01	PERIMETER DR
P012	203	Perimeter - Stay & On	01	01	PERIMETER DR
P013	112	Fire Immediate	01	01	KEYPAD FIRE
P014	013	Hold-up	01	01	KEYPAD PANIC
P015	114	Auxiliary Alert	01	01	KEYPAD EMERG

* A Buffer Area is a secondary area number that the point may also share. Example: a single door that between 2 areas.

Default UK ACPO Input Settings (Pxx1:00 and Pxx1:01)

Input Pt.	Circuit/Pt. Type		Area	Buffer Area	Name (Pxxx:01)
P001	080	Custom # 80 (Command Point, Class: Supervisory. See Custom Point Programming and ACPO)	01	01	LCLCMDATEALL
P002	201		01	01	CCT DESCRIP
P003	202		01	01	CCT DESCRIP
P004	204		01	01	CCT DESCRIP
P005	204		01	01	CCT DESCRIP
P006	204		01	01	CCT DESCRIP
P007	204		01	01	CCT DESCRIP
P008	204		01	01	CCT DESCRIP
P009	204		01	01	CCT DESCRIP
P010	204		01	01	CCT DESCRIP
P011	204		01	01	CCT DESCRIP
P012	206	Day Warning	01	01	SIREN TAMPER

Program Section: E001 (Equipment Trouble Types)

E0xx↓00 Keypad Selections Note: "xx" represents the equipment trouble type number: 01 – 16.
(left to right on keypad screen) **Example:**

```
01··System Tmpr
↓Save      E001↓00
```

Default	Name	Selections	Description
##	Time Delay.	Enter time delay code from global time delay table. 00 = undefined	System Tamper can not be edited.
	Trouble Type Name	From Equipment Trouble Type Name Table	

E0xx↓01 Keypad Selections (left to right on keypad screen)
Note: "xx" represents the module number.

Default	Name	Selections	Description
	Transmit Off	✓(yes) ☐ (no)	
	Transmit Stay	✓(yes) ☐ (no)	
	Transmit On	✓(yes) ☐ (no)	
	Alert Off	✓(yes) ☐ (no)	
	Alert Stay	✓(yes) ☐ (no)	
	Alert On	✓(yes) ☐ (no)	
	Siren Off	✓(yes) ☐ (no)	
	Siren Stay	✓(yes) ☐ (no)	
	Siren On	✓(yes) ☐ (no)	

Equipment Trouble Type Name Table and Defaults (left to right on keypad screen)

Trouble Type #	Name	Time Delay Table	Transmit, Alert, Siren O = OFF, S = STAY, O = ON
E001	System Tamper	01 (immediate)	✓O✓S✓O ✓O✓S✓O ☐O ☐S✓O
E002	Low / No Battery	01 (immediate)	✓✓✓ ✓✓✓ ☐☐☐
E003	AC Mains Failure	23 (4 hours)	✓✓✓ ✓✓✓ ☐☐☐
E004	No Phone Line	14 (5 min) (UK ACPO: 00, disabled)	✓✓✓ ✓✓✓ ☐☐☐
E005	Report Delay	15 (10 min)	☐☐☐ ✓✓✓ ☐☐☐
E006	Time Lost	00 (disabled)	✓✓✓ ✓✓✓ ☐☐☐
E007	Time Change	00 (disabled)	✓✓✓ ✓✓✓ ☐☐☐
E008	Program Change	00 (disabled)	✓✓✓ ✓✓✓ ☐☐☐
E009	Program Error	00 (disabled)	✓✓✓ ✓✓✓ ☐☐☐
E010	Fuse Fail	01 (immediate)	✓✓✓ ✓✓✓ ☐☐☐
E011	Module (Pod) Trouble	01 (immediate)	✓✓✓ ✓✓✓ ☐☐✓
E012	Module (Pod) Battery Low	01 (immediate)	✓✓✓ ✓✓✓ ☐☐☐
E013	Module (Pod) Program Edit	00 (disabled)	✓✓✓ ✓✓✓ ☐☐☐
E014	Module (Pod) Program Error	00 (disabled)	✓✓✓ ✓✓✓ ☐☐☐
E015	Output Trouble	00 (disabled)	✓✓✓ ✓✓✓ ☐☐☐
E016	HSC, Security IP, Trouble	00 (disabled) (01 immediate)	✓✓✓ ✓✓✓ ☐☐☐

Program Section: B001 (Programmable Outputs)

(left to right on keypad screen) **Example:** Pressing the keypad button under ↓? will display the location (main panel, module) of the output and the location's output range.

```
?  S000.05  Query
↓Save  ↓?  B001↓00
```

Outputs are programmable electronic switches that can be used to signal alarms or control items such as lights, garage doors, etc. The keypad Programmable Outputs screens allow viewing or changing (to Feature Set 4 only) the characteristics for each of these outputs.
This system uses a programmable output format referred to as a **"Query Condition"**. A Query Condition is the equivalent of the previous output-programming format (bCAPL) with enhancements. It is basically testing if a condition is valid or not, true or false (e.g. "Is Area 5 On?"). Entering simple output types can be done at an LCD keypad in the configuration programming output "B" section using output code selections. Advanced, Equation, Logic style outputs can only be set up using the Director software and sending this output information to the panel using a direct connection, IP etc.

General Signalling/Switching Functions

Outputs can be set to activate whenever a certain type of input is triggered or a specific event occurs. This can be for the entire system, a single area, a specific door, or for a specific input point.

Door Controller Outputs: These units include dedicated outputs that are configured along with other reader/door settings (via **R0xx).** For details, refer to the "R" (Door) programming section.

Keypad Function Keys

Outputs can be set to respond when a user presses the "**F**" function key and a number-key at an 'LCD keypad'. **F**1-**F**5 are available to all users, while **F**6-**F**9 and **F**0 can be set (on an area-by-area basis) to work only when a user with "Function Key" authority is logged in.

For details, see the "Function Key PIN Required" selection in A0xx↓02.

Function key F5 is pre-set to toggle the keypad chime feature on and off. It can be programmed for other actions, but is generally not—since the keypad chime feature would be toggled too.

Suite Security LED Keypads: Function keys on these units perform a fixed operation (they are not programmable here).

The Paging Feature

Outputs 001 – 002 should be used for the main controller's 2 relay outputs. Outputs 003 – 032 maximum should be considered for assigning to the main controller for possible STU (subscriber terminal unit for modem Redcare output connections). Any outputs 001 – 128 can be set to signal a numeric pager when triggered by their associated alarm condition. The specific alarm/event to be associated with each of the outputs is defined in the System Program Section **S001:06** where the base or beginning output number is entered and then the related output numbers are programmed sequentially. Other settings for the paging feature are set through screens **S005:08** and **S005:09.** The message sent to the pager will be the Panel Unique ID: **S001:02**, and the associated output number.

Tip: It is very useful to print out a small alarm/output reference (wallet or pager-size), for each system that has paging set-up. For details on the "Panel Code" (also known as "Unique ID"), refer to **S001:02**.

General Notes:

Programmable output numbers are assigned by the system when a module that supports outputs is set up. The assigned numbers will be based on the order the modules are added, and the number of outputs that are 'reserved' by each module.

Monitor xL Panels---VBUS Outputs and Parallel STU outputs

The Monitor xL panel supports one 8-output modem/STU (w/configurable base value), plus one 8-ouput VBUS board (with sequential output numbers starting at a single programmable base value). A total of 2 VBUS boards are supported if a Parallel STU is not present. In addition to the settings relating to VBUS and STU outputs, the "Panel onboard outputs" value must include the number of STU and VBUS outputs--plus the two on the panel itself for a grand total. This is selectable as multiples of 4 only (4, 8, 12, etc), so select the next higher value if necessary. VBUS and STU outputs will NOT be recognized if the panel onboard outputs value does not account for all of these outputs.

Location in Software: Configuration ->System (General) ->I/O Mapping (tab):

Location via Keypad: S001:00, S001:06, and S001:07.

Outputs on a graphic map annunciator module refer to the LEDs on the front of the module. Outputs 1 and 2 are obtainable as hard wire connections on the map module's circuit board.

As an aid when setting up the programmable outputs, it is **extremely** useful to create and fill-in a 3-column table to track: module/connection compared to system input/output reference #, compared to location/desired operation.

Undefined Output

LCD Screen

```
? 0000.00 Undef
↓Save  ↓?  Bxxx:0
```

- An Undefined Output is turned off. It can be changed to any **"Query Condition"** by changing the first **0** to the letter of any programming section i.e. "S" for System, "A" for Area etc. (see page 1 for a full list).

Pressing the keypad button below " ↓? " when the output number is associated with a module will display the module's number (i.e. module # XX), what type it is (e.g. Input/Output module), the module's serial number and its output number range.

Query Condition

```
? qnnn.cc Query
↓Save  ↓?  Bxxx:0
```

- **"q"** will represent the first letter of a programming section.
- **"nnn"** is the number in the programming section range that the output is assigned to. E.g. 001 – 016 for Areas, 001 – 050 for Schedules. However, "System" is 000 – 000 because there are no specific numbers of anything contained in it. '000' would be entered for "System".
- **"cc"** is the condition code number for the Query from the Output Selections tables.
- A Query can always be changed from one type to another and can be set as undefined. E.g. a system siren (S000.07) can be changed to Area 5 is OFF (A005:14).

Output type

```
T itt          Timer
↓Save  ↓?  Bxxx:1
```

- In the next keypad screen after pressing Save, any basic output assignment can be timed or just follow what the output is supposed to do.
- **"i"** represents entering a "0" for the output to be a non-inverted output (e.g. output turns positive) or "1" for an **inverted output** (e.g. output turns negative).
- **"tt"** mainly assigns a time delay to the output from the Timer Delay Codes Table, page 37. If "**00**" is entered here it follows a "normal" output action e.g. "When the system is in alarm". The timer delay table begins with entering from 01 being a 1 second timer to 31 being a 1-week timer. Special entries here are "**98**" which will make the output a toggle type. Meaning e.g. associated keypad command keys when pressed will turn the output on and the same key sequence pressed again will turn it off. Entering "**99**" is an additional way to turn the output off so it will never activate.

These previous screens are the only ones that will permit programming simple outputs using the following Output Selections tables. The next output programming screens will only appear when an advanced output has been programmed using the Director Software and sent to the panel with a communications method e.g. direct connection, IP module. After an advanced equation output has been sent to the panel, viewing the related output in the "B" output's programming section on an LCD keypad will display additional screens for it like the following:

- A Logic equation output where **"ff"** is a following condition code.

```
L ff          Logic
↓Save  ↓?  Bxxx:2
```

- A logic equation that is very complicated and can only be viewed in the Director software program.

```
Complex-Director
↓Save  ↓?  Bxxx:0
```

- An output in the outputs section has been e.g. improperly programmed.

```
Error! Bxxx,eee
↓Save       Bxxx:2
```

This condition will only display in the output's "B" programming section on an LCD keypad and not in Status.

Warning: Ordinarily, this type of error will display as a result of a complicated equation output done in the Director software and sent to the panel. This will make it necessary to correct the error in the Director software and re-send the information to the panel.

"xxx" is the output number, 001 – 128, where the error first occurred. It may not be the same as the output you are currently viewing. All outputs after the one affected will display "Error" and not display any of their settings on the LCD screen. Outputs after the one in fault will also cease to operate. All outputs before the one affected will display their settings and operate normally.

"eee" will tell you the type of error. Refer to the following error list.

Error Code	Description	Possible Solution
000	Not applicable.	Notify dealer if persistent.
001	Program section unknown.	Check program section letter i.e. "A" for Area, "M" for module etc.
002	Logic equation condition is unknown.	Panel firmware version may be incompatible with Director ver.
003	Program section range number invalid.	Check the range # e.g. Input # 001 – 128.
004	Incompatible Feature Set #	Panel's Feature Set needs upgrading.
005 - 019	Future use.	
020 - 029	Critical Error	Notify dealer if persistent.

Output Examples

Examples 1 to 5 are configurable in LCD keypad output programming. Examples 6 to 9 must be configured with the Director software and Sent to Panel.

Example 1: Simple Single Equation with Follow Output

```
Bxxx:0   "? D025.00 Query "    - Schedule 25 is in schedule
Bxxx:1   "T 000     Timer "    - Follow (Normal)
```

- Output Bxxx will be ON whenever schedule #25 is in effect.

Example 2: Simple Single Equation with Inverting Output

```
Bxxx:0   "? D025.00 Query "    - Schedule 25 is in schedule
Bxxx:1   "T 100     Timer "    - Inverting Follow Output
```

- Output Bxxx will be OFF whenever schedule #25 is in effect. Whenever schedule #25 is not in effect, output xxx will be ON.

Example 3: Simple Single Equation with Timed Output

```
Bxxx:0   "? D025.00 Query "    - Schedule 25 is in schedule
Bxxx:1   "T 010     Timer "    - Timed positive output, 60 seconds
```

- Output Bxxx will turn on for 60 seconds when schedule 25 first goes into effect.
- E.g. schedule 25 is defined as 9am to 5pm, Monday to Friday. Output xxx will turn on for 60 seconds at 9am on Monday and then will turn off etc. for the rest of the days of the week assigned.

Example 4: Simple Single Equation with Inverting Timed Output

```
Bxxx:0   "? D025.00 Query "    - Schedule 25 is in schedule
Bxxx:1   "T 110     Timer "    - Timed negative output, 60 seconds
```

- Output Bxxx will turn off for 60 seconds when schedule 25 first goes into effect and will be on otherwise.
- E.g. schedule 25 is defined as 9am to 5pm, Monday to Friday. Output xxx will normally be ON and will turn off for 60 seconds at 9am on Monday and then will turn back on etc. for the rest of the days of the week assigned.

Example 5: Toggle Output on function Key

```
Bxxx:0   "? A001.01 Query "    - Function Key 1 in area 1
Bxxx:1   "T 098     Timer "    - Toggle output.
```

- The key term is Timer “Toggle Output” (T098).
- Note that T198 could be entered but this has the same function as T098.
- Pressing Function key 1 in area 1 turns the output ON. Repeating this procedure turns it off.

Example 6: Simple Two Term AND Equation with Normal Output

Configurable only with Director software and Sent to Panel

```
Bxxx:0   "? D025.00 Query "    - Schedule 25 is in schedule
Bxxx:1   "? A002.14 Query "    - Area 2 is OFF
Bxxx:2   "L 01      Logic "    - Logical AND operator      – additional screen generated with Director software.
Bxxx:3   "T 000     Timer "    - Follow (Normal)           – additional screen generated with Director software.
```

- Output Bxxx will turn on when schedule 25 is in effect AND area 2 is off. Otherwise, output xxx will be off.
- *** This equation can not be created directly at the LCD Keypad – it would have to be created in the Director software. After the logical operation and timer value conditions have been made in the Director software and sent to the panel, modifying them can be done at the keypad but not any other changes.
- *** This equation can not be deleted from the LCD keypad directly. Values for the first term (Bxxx:0) can not be undefined. This type of editing can only be done using the Director software.

Example 7: Simple Two Term OR Equation with Timed Output

Configurable only with Director software and Sent to Panel

```
Bxxx:0   "? A001.15 Query "    - Area 1 is not ON
Bxxx:1   "? A002.14 Query "    - Area 2 is OFF
Bxxx:2   "L 00      Logic "    - Logical OR operator      – additional screen generated with Director software.
Bxxx:3   "T 012     Timer "    - Timed output, 2 minutes  – additional screen generated with Director software.
```

1. Output Bxxx will turn on for 2 minutes when area 1 changes from on or when area 2 goes off from some other state.
2. The output will not turn back on again after the 2 minutes expire until area 1 goes On and Area 2 is either STAY or ON.
3. After these two conditions are met, the output will turn back on as noted in point 1.

Example 8: Flash a LED when a Condition is True

Configurable only with Director software and Sent to Panel using "**System – Special Outputs**"

```
Bxxx:0   "? A016.24 Query "    - A point is bypassed in Area 16
Bxxx:1   "? S001.00 Query "    - Turns 1 sec On, 1 sec Off
Bxxx:2   "L 01      Logic "    - Logical AND operator
Bxxx:3   "T 000     Timer "    - Follow (Normal)
```

- When a point is bypassed in area 16, the output will flash 1 second on, 1 second off.
- This is achieved by the logical AND of the area condition query and the special On /Off effect available in System – Special Outputs programming.

Example 9: (Complicated) Flash a LED for 45 Minutes after a Panic Token is Detected in an Area

Configurable only with Director software and Sent to Panel using "**System – Special Outputs**"

```
B001:0   "? A001.47 Query "    - Panic Token used in Area 1
B001:1   "T 019     Timer "    - Timed Output, 45 minutes
B002:0   "? S001.00 Query "    - Turns 1 sec On, 1 sec Off
B002:1   "? B001.00 Query "    - Output 1 is ON
B002:3   "L 01      Logic "    - Logical AND operator
B002:4   "T 000     Timer "    - Follow (Normal)
```

- 2 separate outputs are used to perform this procedure.
- A 45 minute timer is applied to panic tokens detected in area 1 in e.g. output # "B001".
- The output state of B001 (timed output based on panic token in area 1) is used to logically "AND" additional output # e.g. B002 with the Special System 1 second On/Off selection. The important detail is that we use Follow (Normal) for output B002, in order for the timer not to re-trigger.

Default System Programmable Outputs

North America

Output # / Location	Default Codes / Setting	Meaning / Operation
B001:0 (motherboard) B001:1	"? S000.07 Query " "T 000 Timer "	- Follows Alarm Siren - Follow (Normal)
B002:0 (motherboard) B002:1	"? S000.05 Query " "T 000 Timer "	- When system is IN ALARM. - Follow (Normal)
B003:0 (keypad) B003:1	"? A001.01 Query " "T 005 Timer "	- Function Key 1 on Area 1 1st keypad. - Positive trigger, 10 sec delay.
B004 - B128	"? 0000.00 Undef " "T 000 Timer "	- Undefined output - Follow (Normal)

UK

Output # / Location	Default Codes / Setting	Meaning / Operation
B001:0 (motherboard) B001:1	"? S000.66 Query " "T 100 Timer "	- ACPO Siren
B002:0 (motherboard) B002:1	"? S000.67 Query " "T 100 Timer "	- Confirmed Alarm (ACPO strobe)
B003:0 (keypad) B003:1	"? A001.33 Query " "T 000 Timer "	- When area Entry / Exit delay is in progress – provides a steady output (STAY & ON).
B004:0 (WW STU)	"? S000.60 Query " "T 100 Timer "	- Personal ACPO Attack
B005:0 (WW STU)	"? S000.61 Query " "T 100 Timer "	ACPO Unconfirmed Alarm
B006:0 (WW STU)	"? S000.62 Query " "T 100 Timer "	ACPO Area Set / Unset
B007:0 (WW STU)	"? S000.64 Query " "T 100 Timer "	Bypass in Effect
B008:0 (WW STU)	"? S000.54 Query " "T 100 Timer "	Local AC (mains) failure.
B009:0 (WW STU)	"? S000.65 Query " "T 100 Timer "	ACPO Confirmed Alarm
B010:0 (WW STU)	"? A001.32 Query " "T 100 Timer "	Area is in 'Walk' or 'Hold-up' test.

Timer Delay Codes (Bxxx:1)

00: output default; 01: 1 sec; 02: 2 sec; 03: 3 sec;	04: 5 sec; 05: 10 sec; 06: 15 sec; 07: 20 sec; 08: 30 sec;	09: 45 sec; 10: 60 sec; 11: 90 sec; 12: 2 min; 13: 3 min;	14: 5 min; 15: 10 min; 16: 15 min; 17: 20 min; 18: 30 min;	19: 45 min; 20: 60 min; 21: 90 min; 22: 2 hr; 23: 4 hr;	24: 6 hr; 25: 8 hr; 26: 10 hr; 27: 12 hr; 28: 16 hr;	29: 20 hr; 30: 1 day; 31: 1 week	**Specialty Entries:** 98 = toggle 99 = output off

Output Selections Table

WARNING: Access Control related outputs can only be used with the addition of the "Feature Expansion Board".

Program Section ("q") **"S"**ystem	**Section Range** ("nnn") 000 – 000
Code "cc"	**Description**
00	Fallback sonalert (at control panel) if Module Bus fails. Provides 1 sec. Output every 8 sec. And activates if there is no operational keypad in an area with programmed keypads.
01	Not Used
02	When system is FULLY ON
03	PARTIALLY ON. One or more areas ON.
04	When system is FULLY OFF
05	When system is IN ALARM - resets when point(s) restore (includes pseudos & tampers)
06	Follows ALARM (BURG / EMERG) & FIRE siren steady.
07	Follows ALARM siren - steady for BURG / EMERG. Keypad tone & siren is 1 sec on/off for FIRE. **For UL:** When using this output type, fire siren is ½ sec on/off three times, 1.5 sec pause, and repeats. Keypad tone is 1 sec on/off.
08	Follows ALARM siren - steady for BURG / EMERG and provides 2 sec on/off for FIRE
09	Digital PHONE LINE trouble (follows report delay or line failure)
10	System WAS IN ALARM. This is only for input points in alarm e.g. NOT for system trouble (clears when alarmed areas are turned off then back on again)
11	When there is a point BYPASSED somewhere in the system
12	When any 'FIRE' point is in alarm
13	When any 'HOLD UP' point is in alarm
14	When any 'Aux Alert' point is in alarm
15	When any 'VAULT / SAFE' type point is in alarm
16	When any "Burglary' point is in alarm. Delayed burglary for **European Version.**
17	When any 'Supervisory' point is in alarm.
18	When any 'Pseudo' is in alarm
19	Pseudo 1 – System Trouble / All type tamper for **European Version**.
20	Pseudo 2 – Battery Trouble
21	Pseudo 3 – AC (Mains) Trouble
22	Pseudo 4 – Phone Trouble
23	Pseudo 5 – Report Delay
24	Pseudo 6 – Time Lost
25	Pseudo 7 – Time Change
26	Pseudo 8 – Program Change
27	Pseudo 9 – Program Error
28	Pseudo 10 – Fuse Failure
29	Pseudo 11 – Module Trouble
30	Pseudo 12 – Module Battery Low
31	Pseudo 13 – Module Program Edit
32	Pseudo 14 – Module Program Error
33	Pseudo 15 – Misc. Trouble
34	Pseudo 16 – SIP Trouble
35	Duress Pin
36	Doors Unlocked.
37	Doors Locked Out
38	Doors Held Open
39	Doors Forced
40	Doors Tamper (door contact condition: no EOL resistor etc.)
41	Doors Open
42	Doors Secure
43	Doors Sensor Trouble (magnetic bond sensor not ok)
44	Global Invalid PIN and / orCard lockout.
45	Host (Director) computer is On-Line.
46	Host (Director) computer is Off-Line. Response time for IP, external modem, direct connection is 2 min. Bell 103 is 1 min.
47	SIP On-Line.
48	SIP Off-Line. Response time is 3 minutes.
49	Any point in tamper.
50	Any point in Alarm.
51	Any area is Force Arming
52	Any area Failed to Close
53	Phone Line Failure
54	Local AC (mains) failure.
55	System Tamper – **European Version**.
56	System Fault – **European Version**.
57	System WAS IN ALARM. This is only for input points in alarm e.g. NOT for system trouble (clears when alarmed areas are turned off)
58	Bypass is in effect in any armed area.
European Version (System)	
59	Fire
60	Personal Attack
61	Unconfirmed Alarm
62	Area Set / Unset
63	Freezer / Fire Fault
64	Bypass in Effect
65	Confirmed Alarm
66	Siren
67	Confirmed Alarm (Strobe)

System Special Outputs. Section Range: 001 – 001. See examples 8 & 9 in Output Examples. **NOTE: Only configurable through the Director Software.**	
00	1 sec on, 1 sec off
01	2 seconds on every minute
02	10 seconds on every minute

Program Section ("q") **"D"** Schedule	**Section Range** ("nnn") Enter 001 – 050
Code "cc"	**Description**
00	Schedule in Schedule
01	15 minutes prior to In Schedule (opening)
02	15 minutes prior to Out of Schedule (closing)
03	Holiday in Effect (Whether Type 1,2,3 or No Access)
04	No Access, Holiday in effect.

Program Section ("q") **"H"**oliday	**Section Range** ("nnn") Enter 001 – 032
Code "cc"	**Description**
00	Holiday in Effect (Whether type 1,2, 3 or No Access)

Program Section ("q") **"A"**rea	**Section Range** ("nnn") Enter 001 – 016
Code "cc"	**Description**
00	Function Key 0
01	Function Key 1
02	Function Key 2
03	Function Key 3
04	Function Key 4
05	Function Key 5
06	Function Key 6
07	Function Key 7
08	Function Key 8
09	Function Key 9
10	When area is ON
11	When Area WAS IN ALARM. This is only for input points in alarm e.g. NOT for system trouble (clears when alarmed areas are turned off)
12	When area is in STAY 1
13	When area is in STAY 1 or (2 future)
14	When area is OFF
15	When area is Not ON
16	When area is Not OFF
17	When area is in ALARM. Resets when point(s) restore or follows siren timeout (includes pseudo's & tampers)
18	When area WAS IN ALARM. This is only for input points in alarm e.g. NOT for system trouble (clears when alarmed areas are turned off then back on again)
19	Follows ALARM siren - steady for BURG / EMERG and provides 1 sec ON/OFF for FIRE
20	Follows ALARM siren - steady for BURG / EMERG and provides 2 sec ON/OFF for FIRE
21	Follows sonalert, chime & provides Entry/Exit tones when armed to STAY & ON (UK ACPO = Fail to Arm)
22	Follows sonalert, chime & **does not** provide Entry/Exit tones when armed to STAY but provides Entry/Exit tones in ON (UK ACPO = Fail to Arm)
23	Follows Garage Entry Tones
24	When any point in this area is BYPASSED
25	When any 'FIRE' type point in this area is in alarm
26	When any 'HOLD UP' type point in this area is in alarm
27	When any 'AUXILIARY ALERT' type point in this area is in alarm.
28	When any 'VAULT / SAFE' type point is in alarm.
29	When any 'BURGLARY' type point in this area is in alarm.
30	When any 'Supervisory' point is in alarm.
31	When any 'Pseudo' is in alarm.
32	Area is in 'Walk' or 'Hold-up' test.
33	When area Entry / Exit delay is in progress – provides a steady output (STAY & ON).
34	When area Entry delay is in progress - provides a steady output (STAY & ON).
35	When area Exit delay is in progress - provides a steady output (STAY & ON).
36	When the area is 'Ready To Arm' - i.e. all points are secure.
37	When the area's active schedule is in effect.
38	When the area schedule is CLOSING in 15 minutes.
39	Doors Unlocked.
40	Doors Locked Out.
41	Doors Held Open.
42	Doors Forced.
43	Door Tampers (door contact condition: no EOL resistor etc.)
44	Doors Open.
45	Doors Secure.
46	Door Sensor Troubles (magnetic bond sensor not ok)
47	Panic Token Detected.
48	Area "Empty" (User count <= minimum).
49	Area "Full" (User Count >=Maximum).
50	No Detected Activity in Area.
51	Activity Detected in Area.
52	15 minutes prior to Scheduled "Arm to ON" Level.
53	15 minutes prior to Scheduled "Arm to STAY" Level.
54	15 minutes prior to Scheduled "Arm to OFF" Level.
55	Area schedule is active.
56	Auto-command schedule is active.
57	Failed to close.
58	Any point in tamper in area.
59	Area armed with points bypassed.
60	Area Force Armed.
61	Invalid Card / PIN Lockout present.
62	Wandering Patient detected.

European Version (Area)	
63	Siren
64	Confirmed Alarm Strobe
65	Fire
66	Personal Attack
67	Unconfirmed Alarm
68	Set / Unset
69	Freezer / Fire Fault
70	Bypass in Effect
71	Confirmed Alarm

Program Section ("q") **"P"**oint (Inputs)	**Section Range** ("nnn") Enter 001 – 128
Code "cc"	**Description**
00	When point is NORMAL.
01	Any time the point is NOT NORMAL (open, tamper, alarm)
02	When point is NOT NORMAL in OFF or STAY (open, tamper, alarm)
03	When point is NOT NORMAL in ON (open, tamper, alarm)
04	When point is in ALARM
05	When point is BYPASSED
06	When the time delay is active (Pre-alarm Warning).
07	Point is in Tamper.
08	Point is in Delay. Follows a Custom Pt Type that has a time delay.
09	Positive confirmation of Command Point activation.

Program Section ("q") **"B"** Output State	**Section Range** ("nnn") Enter 001 – 128
Code "cc"	**Description**
00	An actual output is on.
01	Equation Output is TRUE
02	Manual Command is in effect from the Director software Outputs Section, Control & Status.

WARNING: Access Control related outputs can only be used with the addition of the "Feature Expansion Board".

Program Section ("q") **"R"** Doors	**Section Range** ("nnn") Enter 001 – 032
Code "cc"	**Description**
00	Door Unlocked
01	Door Locked Out
02	Door Held Open
03	Door Forced
04	Door Tamper (door contact condition: no EOL resistor etc.)
05	Door Open
06	Door Secure
07	Door Sensor Trouble (magnetic bond sensor not ok)
08	Door Blocked by Interlock Condition
09	Wandering Patient Detected
10	Door entry Delay in Effect

Program Section ("q") **"F"** loors	**Section Range** ("nnn") Enter 001 – 124
Code "cc"	**Description**
00	Floor Desecure

Program Section ("q") **"M"** odule	**Section Range** ("nnn") Enter 01 – 24
Code "cc"	**Description**
00	On Line
01	Tamper
02	Comms Trouble (Substitution & Comms)
03	Battery Trouble (Module)
04	User logged on to e.g. LCD keypads

Program Section ("q") **"C"** Suite	**Section Range** ("nnn") Enter 01 – 24
Code "cc"	**Description**
00	Alarm
01	Fire
02	Tamper
03	Siren / Sonalert
04	Module Communications Trouble
05	Suite Normal (No Alarm, Fire, Tamper, Siren / Sonalert, Comms Trouble)
06	Suite in STAY level.
07	Suite in ON level.
08	Suite in STAY or ON level.

Program Section: L001 (Authority Levels)

L001↓00 Keypad Selections
(left to right on keypad screen) **Example:**

```
✓ ·MASTER          ··
↓Save       L001↓00
```

Default	Name	Selections	Description
✓(yes)	First Authority Level Defined?	✓(yes) ☐ (no)	
MASTER	First Authority Level Name	Edit the same as the Greeting Message, S001:04	Alphanumeric name for authority level - 12 characters (A blank name field means level is undefined.)

L001↓01 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
001	User Edit Group		
000	Floor Group		
✓(yes)	Accept Duress Pin	✓(yes) ☐ (no)	If "yes" then accept global duress functionality for this Authority.

L001↓02 – 17 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
001	Profile Number	0 = none, 1-100 = profile #	From Program Section "I" Authority Level Profiles.
PROFILE MSTR	Profile name	12 Characters	(if available, not editable)

NOTES:

- Profiles created in I001↓00 are applied to areas L001↓02 – 17 to permit authority of a user's abilities in that area. L001↓02 for area 1, L001↓03 for area 2 to L001↓017 for area 16.
- Authority levels applied in areas here will permit authority for Area Group Mode S001↓08.

Program Section: Q001 (Floor Maps)

Q001↓00 Keypad Selections
(left to right on keypad screen) **Example:**

```
000 · · · · · · · · · · · · · · ·
↓Save        Q001↓00
```

Default	Name	Selections	Description
000	Schedule	0 = none, 01-250 = schedule #	

Q001↓01 – 08 Floor Map
Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
☐ (no) All Floors	Floor 1 to 16	✓(yes) ☐ (no)	1-16 up to 124

Program Section: W001 (User Edit W)

W001↓00 Keypad Selections
(left to right on keypad screen) **Example:**

```
MASTER              · · · ·
↓Save        W001↓00
```

Default	Name	Selections	Description
MASTER	User Edit Name	12 characters	

W001↓01,03,05,07,09,11,13,15 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
00001	User Start	User Start Range, 0 to end of users.	
00020	User End	User End Range, to end of users.	

W001↓02,04,06,08,10,12,14,16 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
0001	Authority Start	Authority Start Range, 0 to end of authorities.	
0030	Authority End	Authority End Range, to end of authorities.	

Program Section: I001 (Profile I)

I001↓00 Keypad Selections
(left to right on keypad screen) **Example:**

```
✓·PROFILE MSTR··
↓Save    I001↓00
```

Default	Name	Selections	Description
✓(yes)	Profile Defined?	✓(yes) ☐ (no)	
PROFILE MSTR	Profile Name	Edit the same as the Greeting Message, S001:04	Alphanumeric name for authority level - 12 characters (A blank name field means level is undefined.)

I001↓01 Unscheduled Intrusion Related Authority Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
✓(yes)	Emergency Off	✓(yes) ☐ (no)	
✓(yes)	Isolate a trouble point	✓(yes) ☐ (no)	
✓(yes)	Bypass	✓(yes) ☐ (no)	
✓(yes)	Auto-Remove Bypass	✓(yes) ☐ (no)	A bypass put on a protection point from the previous armed period is automatically removed when the user turns the area to OFF.
✓(yes)	Test	✓(yes) ☐ (no)	
✓(yes)	Service Test	✓(yes) ☐ (no)	
✓(yes)	Silence Alarm	✓(yes) ☐ (no)	
✓(yes)	Status	✓(yes) ☐ (no)	
✓(yes)	History	✓(yes) ☐ (no)	
✓(yes)	Function-Key Authorization	✓(yes) ☐ (no)	
✓(yes)	Work Late	✓(yes) ☐ (no)	
✓(yes)	Suspend Schedule	✓(yes) ☐ (no)	

I001↓02 Unscheduled Access Related Authority
Keypad Selections
(left to right on keypad screen) **Example:**

```
00 ·0 ·✓✓✓✓ □ ✓□ ✓□ · ·
↓Save          I001↓02
```

Default	Name	Selections	Description
00	Group Number	0 = No Group Authority Group Number 1...62,63 = All Group Authority	
0	Group Mode	0 = "is equal to" 1 = "greater than or equal to"	
✓(yes)	Access Off	✓(yes) ☐ (no)	
✓(yes)	Access Stay	✓(yes) ☐ (no)	
✓(yes)	Access On	✓(yes) ☐ (no)	
✓(yes)	Escort	✓(yes) ☐ (no)	
□ (no)	Visitor	✓(yes) ☐ (no)	
✓(yes)	Master Override	✓(yes) ☐ (no)	
□ (no)	Wandering patient	✓(yes) ☐ (no)	
✓(yes)	Reset door alarm	✓(yes) ☐ (no)	
□ (no)	Panic Token	✓(yes) ☐ (no)	

I001↓03 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
000	Schedule A	0=undefined, 1 - 250 schedule #	
000	Schedule B	0=undefined, 1 - 250 schedule #	
000	Schedule C	0=undefined, 1 - 250 schedule #	

I001↓04 Scheduled Intrusion Related Authority
Keypad Selections (left to right on keypad screen)
NOTE: The necessary Authority Level is required to affect the following area protection changes in and out of schedule. **NOTE:** 3 schedules maximum can be mixed and matched.

Default	Name	Selections	Description
1	On	0=None, 1=Always, 2=Schedule A in effect, 3=Schedule A not in effect, 4=Schedule B in effect, 5=Schedule B not in effect, 6=Schedule C in effect, 7=Schedule C not in effect	
1	Off		
1	Stay		
1	Auto Disarm to OFF	0= Stay, 1= Off, 2= Schedule A in effect turn Off /not in effect, turn to STAY, 3= Schedule A in effect, turn to STAY / not in effect, turn Off 4= Schedule B in effect, turn Off /not in effect, turn to STAY, 5= Schedule B in effect turn to STAY /not in effect, turn Off, 6= Schedule C in effect, turn Off /not in effect, turn to STAY, 7= Schedule C in effect turn to STAY /not in effect, turn Off.	
1	Auto Disarm all Areas	0= single 1= All, 2= Schedule A in effect all areas off /out of schedule, area entering off, 3= Schedule A in effect, area entering off /not in effect, all areas off. 4= Schedule B in effect all areas off /out of schedule, area entering off, 5= Schedule B in effect, area entering off /out of schedule, all areas off, 6= Schedule C in effect all areas off /not in effect area entering off , 7= Schedule C in effect area entering off /out of schedule, all areas off.	

I001↓05 Scheduled Intrusion Related Authority
Keypad Selections
(left to right on keypad screen) **Example:**

```
1·1·1·1·············
↓Save        I001↓05
```

Default	Name	Selections	Description
1	Door Command	0=None, 1=Always, 2=Schedule A in effect, 3=Schedule A not in effect 4=Schedule B in effect, 5=Schedule B not in effect 6=Schedule C in effect 7=Schedule C not in effect	
1	Class A		
1	Class B		
1	Class C		

Default Authority Settings	Master I001.00 – 005	Supervisor I002.00 – 005	Employee I003.00 – 005	Worker I004.00 – 005	Cleaner I005.00 – 005
Intrusion					
Emergency Off	✓	✓			
Isolate	✓	✓			
Bypass	✓	✓			
Auto-lift Bypass	✓	✓			
Test	✓	✓			
Service Test	✓				
Silence Alarm	✓	✓	✓		✓
Status	✓	✓	✓	✓	✓
History	✓	✓			
Function Key Authorization	✓	✓			
Work Late	✓	✓	✓		✓
Suspend Schedule	✓	✓			
On	✓	✓	✓	✓	✓
Off	✓	✓	✓		✓
Stay	✓	✓	✓		✓
Auto Disarm to Off	✓	✓			
Auto Disarm all Areas	✓	✓			
Access					
Access when Area is Off/On/Stay	✓	✓	✓	✓	✓
Escort		✓			
Master Override	✓				
Reset Door Alarm At system readers with a user card. Not at an Arming Station where ✳ 9 is used to silence.	✓	✓			
Door Command	✓	✓	✓		
Class A	✓	✓	✓	✓	✓
Class B	✓	✓	✓	✓	✓
Class C	✓	✓	✓	✓	✓

Program Section: U001 (Users)

U001↓00 Keypad Selections
(left to right on keypad screen) **Example:**

```
MASTER USER     001·
↓Save         U001↓00
```

Default	Name	Selections	Description
MASTER USER	User Name	Edit the same as the Greeting Message, S001:04	Alphanumeric name for authority level - 12 characters (A blank name field means user is undefined.)
001	Authority Level	00 = undefined user 01…30 = authority level	Assign an existing Authority Level number.

U001↓01 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
blank	Card Number	7 Digits Numeric for Old 24 bit Card Version: 0000000-9999999 9 Digits Numeric for Expanded 32 bit Card Version. 0000000000-9999999999	A card numbered 9898 is entered from the right e.g. 0000009898 for both 7 and 9 digit cards.
00	Card Version	0-15	

U001↓02 Keypad Selections
(left to right on keypad screen) **Example:**

```
000·☐·0·0·☐·········
↓Save         U001↓02
```

Default	Name	Selections	Description
000	Suite Security Floor Number	0-124	Not applicable for feature sets less than 5. Greater then 5 are Director Software/Elevator, display only.
☐ (no)	Addition Floor	✓(yes) ☐ (no)	Not applicable for feature sets less than 5. Greater then 5 are Director Software/Elevator, display only.
0	Suite Security Authority	0-7 0 Not Assigned by system 1 Undefined on the condo 2-7 Condo Authorities	
0	Language	0 = English, 1 = French, 2 = Dutch, 3 = Spanish	
☐ (no)	Physically Challenged	✓(yes) ☐ (no)	

Note = Condo Floor Number is "000" and Addition Floor is "No" for a Feature Set less than five. Both will indicate active values through the Director Software if the Feature Set is greater then five and with elevator selections. Both are only for display purposes in this screen.

U001↓3 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
_ _ _ _	User's PIN number.	–	**Default MASTER User 001's ID is 001, PIN 7793 (PSWD)**
_ _ _ _	Re-enter User's PIN number.	–	To avoid incorrect fist entry.

Program Section: H001 (Holidays)

H001↓00 Keypad Selections
(left to right on keypad screen) **Example:**

```
00 ·00 ·0  mm·dd···
↓Save      H001↓00
```

Default	Name	Selections	Description
00	Month	Up to 2 digits: 01 – 12 13 = Reserved (for future e.g. Easter, Yom Kippur, etc)	
00	Day	Up to 2 digits: **01 - 31**: Day of month **32 - 38**: 1st Sun–Sat of month **39 - 45**: Last Sun–Sat of month **46 – 52**: 2nd Sun–Sat of month **53 – 59**: 2nd last Sun–Sat of month **60 – 66**: 3rd Sun–Sat of month **67 – 73**: 3rd last Sun–Sat of month	
0	Type	One digit 0: No access holiday 1: Holiday Type One 2: Holiday Type Two 3: Holiday Type Three	

H001:0 always programs the seasonal spring-forward (daylight savings time) date.
H002:0 always programs the seasonal fall-back (standard time) date.

Program Section: D001 (Schedules)

D001↓00 Keypad Selections
(left to right on keypad screen) **Example:**

```
☐ ·000 ·000 ·000 ·0
↓Save       D001↓00
```

Default	Name	Selections	Description
☐ (no)	Schedule Defined	✓(yes) ☐ (no)	
000	Holiday Schedule*	000- 252 = Schedule Number	
000	Holiday Schedule*	000- 252 = Schedule Number	
000	Holiday Schedule*	000- 252 = Schedule Number	
0	Midnight Holiday Mode	0=Holiday takes effect only after current scheduled ends. 1=Holiday always takes effect at midnight.	

000 – No access; 251– Normal holiday access schedule; 252 – Always access holiday.

D001↓01 – 06 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
99:90 **99:90** (00:00) (00:00) (Start) (Stop)	Schedule starting time and stopping time.	Time Values: **00:00** = Midnight up to **23:50** = 11:50 p.m. Entering **99:90** in Start and Stop will disable the schedule.	–
☐ (no) 7 days of the week starting with Sunday	Weekdays that schedule applies.	✓(yes) ☐ (no)	☐ ☐ ☐ ☐ ☐ ☐ ☐ Sun – Sat in which a schedule is in effect.

Assign the schedule number to an area in **A0xx↓03.**

Program Section: T080 (Custom Inputs)

T080↓00 Keypad Selections
(left to right on keypad screen) **Example:**

```
0 ·00 ·0 ·☐ ☐ ☐ · · · · · ·
↓Save          T080↓00
```

Default	Name	Selections	Description
0	Level	0: 24 hr, 1: Stay & On, 3: On Only	When the input will be monitored.
00	Characteristics	See Custom Input Characteristic Types list.	What the special input will do. (UK ACPO custom point # 1 = 40, # 2 = 10)
0	Class	0: Fire Class A (Double Loop); 1: Fire; 2: Hold Up; 3: Aux. Alert; 4: Vault / Safe; 5: Burglary; 6: Supervisory	How the input will report to the Monitoring Station. (UK ACPO custom point # 1 = 6, # 2 = 5)
☐ (no)	Bypassable	✓(yes) ☐ (no)	Can this input be bypassed?
☐ (no)	Chime	✓(yes) ☐ (no)	Will this input cause keypads to sound when it is opened? (E.g. entry door)
☐ (no)	Pre-Alarm Warning	✓(yes) ☐ (no)	Will this input supply a warning alert delay (keypad sounds), so it can be reset before reporting to the Monitoring Station

Custom Input Characteristic Types

Characteristic Types: 00: Entry/Exit Door; 01: 1 sec(s); 02: 2s; 03: 3s; 04: 5s; 05: 10s; 06: 15s; 07: 20s; 08: 30s; 09: 45s; 10: 60s; 11: 90s; 12: 2 min(m); 13: 3m; 14: 5m; 15: 10m; 16: 15m; 17: 20m; 18: 30m; 19: 45m; 20: 60m; 21: 90m; 22: 2 hr(h); 23: 4h; 24: 6h; 25: 8h; 26: 10h; 27: 12h; 28: 16h; 29: 20h; 30: 1 day; 31: 1 week; 32: garage; 33: E/E route; 35: FAP (6sec/20min); 37: E/E route FAP; 39: Activity Monitor; 40: Command Point; 41: Arming Keyswitch; 42: Guard Tour Point; 43: Work Late Function.

Entry/Exit Doors: The 'Entry/Exit Door' selection (characteristic type = 00) is normally used with doors that are monitored, but not electronically controlled for personnel access. For access-controlled doors, a dedicated 'Door Contact' input is provided on the door-control module (which does not need to be set up as an input point). Readers & doors are set up via R001 - R032. Also, an E/E door type-of-point cannot be set for a 24-hr monitoring level (this will 'undefine' the custom point type). As well, with E/E doors, the custom bypass selection can be applied to a custom E/E door type to make it bypassable.

Garage Points: The 'garage' selection (type = 32) refers to garage door sensors. With these inputs, the 'garage' delay setting will apply (see **A0xx:01**), and the area can be armed while the point is tripped (the garage sensor will be armed after the door is closed).

FAP: (False Alarm Preventor) If a FAP input is not OK longer than 10 seconds, an alarm condition occurs. If a FAP input is triggered and immediately resets, a 20 minute timer begins. If the same device is tripped or a different FAP device trips in the same 20 minutes, an alarm occurs.

Activity Monitor: activation informs the system that the area this point is connected to is still occupied. Used in conjunction with A0xx:07.

Activity Monitor and Custom Point Type "Level" selections: 0: 24hr: – 24 hr Activity Monitor – activity point always active (ON, STAY and OFF). 1: Stay & On – Activity Monitor when area OFF, standard alarm when in STAY and ON. 3: On Only – Activity Monitor when area OFF & STAY, standard alarm when ON.

Command Point: Command Points are only configurable through the Director software. **WARNING:** Never attempt to edit a Command point name at a keypad or it may fail to operate.

Keyswitch Operation: If the type is set to 41 (Keyswitch), the 'level' setting specifies whether the switch will arm (1), or disarm (0) the area associated with the specific input point. Furthermore, if the custom-type is set to "Chime (√)", and the area is set for "Stay on Fail to Exit", the area will be armed to 'Stay' if no users exit after turning the switch (not-Ok to Ok).

Conversely, if the custom-type is set to NOT chime (☐), the "Stay on Fail to exit" setting will be ignored (the area will fully arm to 'On').

Note: With an arming keyswitch, disarming is typically done through an LCD keypad.

Guard Tour Points: For an input point to be used in a guard tour, it requires a custom point type with the 'type' set as **42** (Guard Tour Point). For this application, the 'class' should be set as "Supervisory", and the 'level' will typically be set as "24 hr". Also note that, in this case, any "TX" selections will be ignored (guard-tour point activity is referenced only by the Director software during the guard tour).

Work Late Function: This custom type can be assigned to e.g. a motion detector in an area that is off but is in its LCD keypad, closing time warning, at the last 15 min of its schedule. If this motion detector is tripped because area occupants are working late, it will delay the scheduled closing time. To set the Worklate Time Extension for 'work late' points in an area, refer to **A0xx:01** under "A001 - A016 (Areas and Related Settings)". **NOTE:** The Custom Type "Level" can only be set to "Stay & On" or "On" for this point. Setting it for 24hr will result in repeated alarms. When the area is armed, this pt type converts to a standard burg point.

Chime: This setting is often used with Entry points/routes (so persons know that someone has entered the area).

Pre-Alarm Warning: For associated input-points, alarm transmission (to the central station) will be delayed as per the "Pre-Alarm Delay" setting (for the specific 'area'). During the delay, keypad sonalert(s) will be sounded, giving an authorized user time to "Silence" the alarm at a keypad. (Selecting "Verify User" will cancel the alarm transmission.)

To set the "Pre-alarm Delay" time for a specific area, refer to **A0xx:01** under "A001 - A016 (Areas and Related Settings)". To set the areas to be monitored by a specific keypad, refer to **M0xx:01** under "M001 - M024 (Modules and Related Settings)".

T080↓01 How the input will behave when it is active.
Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
☐ (no)	Transmit in OFF	✓(yes) ☐ (no)	Reporting to the Monitoring Station
☐ (no)	Transmit in STAY	✓(yes) ☐ (no)	Reporting to the Monitoring Station
☐ (no)	Transmit in ON	✓(yes) ☐ (no)	Reporting to the Monitoring Station (UK ACPO custom point # 2 = ✓yes)
☐ (no)	Sonalert in OFF	✓(yes) ☐ (no)	Keypad sounder active. (UK ACPO custom point # 2 = ✓yes)
☐ (no)	Sonalert in STAY	✓(yes) ☐ (no)	Keypad sounder active.
☐ (no)	Sonalert in ON	✓(yes) ☐ (no)	Keypad sounder active.
☐ (no)	Siren in OFF	✓(yes) ☐ (no)	System siren active.
☐ (no)	Siren in STAY	✓(yes) ☐ (no)	System siren active.
☐ (no)	Siren in ON	✓(yes) ☐ (no)	System siren active.

Default UK ACPO Custom Input Settings (T080↓00 and T081↓01)

Custom Input Pt.	Level	Characteristic Type	Class	Bypass	Chime	Pre-Alarm
T080	0	40	6	☐ (no)	☐ (no)	☐ (no)
T081	0	10	5	☐ (no)	☐ (no)	☐ (no)

Custom Input Pt.	Transmit OFF	Transmit STAY	Transmit ON	Sonalert OFF	Sonalert STAY	Sonalert ON	Siren OFF	Siren STAY	Siren ON
T080	☐ (no)	☐ (no)	☐ (no)	☐ (no)	☐ (no)	☐ (no)	☐ (no)	☐ (no)	☐ (no)
T081	☐ (no)	☐ (no)	✓(yes)	✓(yes)	☐ (no)	☐ (no)	☐ (no)	☐ (no)	☐ (no)

Program Section: R001 (Doors)

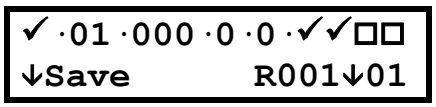
WARNING: R001↓00 – R001↓14 Access Control related selections are only available with the addition of the "Feature Expansion Board".

R001↓00 Keypad Selections
(left to right on keypad screen) **Example:**

Default	Name	Selections	Description
00	Access Module Number	00 = Door undefined 01-24=Access Pod Module #	The door controller module associated with this reader/door.
blank	Door Name	12 alpha-numeric characters	A suitable name/description for this reader/door.
1	Module Door Port Number	1 or 2	The 1st or 2nd door on the door controller module. This is indicated on the PCB. **Tip:** This is 1 for odd-numbered doors, and 2 for even-numbered doors.

Note: The second door on each door controller module is configured separately (typically R002, R004, etc.).

R001↓01,04 Keypad Selections
(left to right on keypad screen) **Example:**



Default	Name	Selections	Description
✓(yes)	1st Reader Defined	✓(yes) ☐ (no)	
01	Reader Area	2 Digits 01 – 16 00 – outside area	This is the area being entered by this reader.
000	Card Lockout Schedule	00 = No scheduled lockout 01 – 250 Schedule	A schedule to specify when card access will be blocked.
0	Enable / Disable Card Type (Card Action)	00 = None, 01=Escort Req'd, 02 =non-permanent users, 03 =all users.	Escort e.g. guard to take visitors around
0	Enable / Disable Reader Type (Card Action)	If enabling reader, see *1 Note below. If disabling reader, see *2 Note below.	Reader enrolls or deletes cards.
✓(yes)	Arming Station	✓(yes) ☐ (no)	(UK ACPO = ✓yes)
☐ (no)	Lockout In Schedule	✓(yes) ☐ (no)	
☐ (no)	Enable / Disable Reader (Card Action)	✓(yes) ☐ (no)	See Notes 1 & 2 below.
☐ (no)	Unlock on Enable / Disable (Card Action)	✓(yes) ☐ (no)	The reader door will unlock when a card is enabled or disabled at the reader.

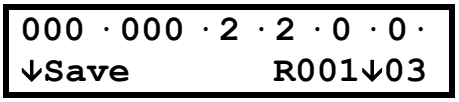
Note *1: If enabling reader, 0=enable for 4 hrs, 1=enable for 8hrs, 2=enable for 12 hrs, 3=enable for 24 hrs, 4=enable for 1 week, 5=enable until midnight tonight, 6=enable permanently, 7=enable until out of window according to schedule 50.

Note *2: If disabling reader, 0=disable card permanently, 1=disable card but set it so that it can be re-enabled later at an enabling station, 2= disable card permanently and trigger auxiliary output , 3= disable card enable re-enroll and trigger auxiliary output, 4 to 7 = not used, same as 1 (room for future expansion)

R001↓02, 05 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
000	Reader Class Map Schedule	00 = Treat as In Schedule 01 – 250 Schedule	Enter a schedule for reader-class restriction.
00	Group Number	00 = none, 1 – 63, Reader Group Number.	
✓(yes)	In Schedule A	✓(yes) ☐ (no)	Whether Class **A** users can enter during schedule
✓(yes)	In Schedule B	✓(yes) ☐ (no)	Whether Class **B** users can enter during schedule
✓(yes)	In Schedule C	✓(yes) ☐ (no)	Whether Class **C** users can enter during schedule
✓(yes)	Out of Schedule A	✓(yes) ☐ (no)	Whether Class **A** users can enter outside of the sched.
✓(yes)	Out of Schedule B	✓(yes) ☐ (no)	Whether Class **B** users can enter outside of the sched.
✓(yes)	Out of Schedule C	✓(yes) ☐ (no)	Whether Class **C** users can enter outside of the sched.
☐ (no)	Anti-pass Back	✓(yes) ☐ (no)	Whether cards are to be blocked against re-entry before exiting first.
☐ (no)	Log APB Violation Only	✓(yes) ☐ (no)	Whether 'Anti-pass Back violators' will be granted entry.
✓(yes)	Enable Class Checking	✓(yes) ☐ (no)	Door class (A,B,C) checking, on or off.

R001↓03,06 Keypad Selections
(left to right on keypad screen) **Example:**



Default	Name	Selections	Description
000	Card Mode Schedule	00 = Use as In Schedule setting 01 – 250 (Schedule)	Enter a schedule to allow cycling between different 'card' modes during the daytime, vs. after-hours.
000	Reader Mode Schedule	00 = Use as In Schedule setting 01 – 250 (Schedule)	Enter a schedule to allow cycling between different reader modes during the daytime, compared with after-hours.
2	Card Mode In Schedule	0=Card only,1= Card + PIN, 2= Card or UID/ PIN,3= UID/ PIN only	The basic method that entrants will have to use to gain entry at this door—i.e., via access token and/or by keying-in a PIN.
2	Card Mode Out of Schedule	0=Card only,1= Card + PIN, 2= Card or UID/ PIN, 3 = UID/ PIN only	Same as 'Card Mode In Schedule'
0	Reader Mode In Schedule	0=Normal,1= Dual Custody, 2= Escort, 3= Toggle Lock all user, 4= Toggle lock authorized. 5–7=Future	Sets whether a second user, or initial escort will be required to gain entry (while the schedule is active).
0	Reader Mode Out of Schedule	0=Normal,1= Dual Custody, 2= Escort, 3= Toggle Lock all user, 4= Toggle lock authorized. 5–7=Future	Sets whether a second user, or initial escort will be required to gain entry (outside of the schedule).

(Schedules): Select "**00**" to have the "During Schedule" selection apply all of the time.
To set up schedules or view related settings, refer to "D001 - (Schedules for Area/Access/Door Automation)".

Card Mode: For "ID/PIN only", an access token is NOT required, and the entrant must enter either their PIN or ID+PIN. For an armed area that is NOT set to 'Auto Disarm on Valid Token', the user will also have to access the alarm system and disarm the area. For details on 'Auto Disarm on Valid Token', refer to A0xx:04 (Areas and Related Settings)".

Reader Mode: For access to be granted when dual custody is in effect, two users who have the authority to enter the specific door at the present time must present their card and/or PIN at the reader. With escort mode, the second user must have "Escort" authority. (A valid 'escort' can also enter on their own by presenting their card/PIN twice.) To assign escort authority to a block of users (i.e., those assigned to a specific authority level), refer to **I001↓02** (Authority Levels for Users/Entrants)". **Tip:** "Dual Custody" is also supported referring to disarming an area. For details, refer to **A0xx↓02** (Areas and Related Settings)".

R001↓07 Keypad Selections
(left to right on keypad screen) **Example:**

```
04 · 06 · 0 · ✓ □□□□□□ ·
↓Save          R001↓07
```

Default	Name	Selections	Description
04	Unlock Time	00-31 (Delay Table) 04 = 5 Sec	The unlock duration when a user is granted entry.
06	Challenged Unlock Time	00-31 (Delay Table) 06 = 15 Sec	The unlock duration when access is granted for a physically challenged user. Whether or not the 'Challenged' unlock time applies is based on the 'Challenged' setting for the user. For details, refer to **U001↓02** (User Name and Basic Settings)
0	Door Alarm Monitoring	0=None 1=Door Held Open Processing, 2=Door Forced processing, 3=Door Held Open and Door Forced Processing	Whether or not this door is to be monitored for forced entry and/or being held open too long.
✓(yes)	Reader LED Mode	✓= BiColor □= Normal	Set this as ✓ yes for arming stations, and for any readers with a bicolour LED.
□ (no)	RTE Required (request to Exit)	✓(yes) □ (no)	Whether or not the RTE input will be used / monitored.
□ (no)	Panel Process RTE	✓(yes) □ (no)	Sets the main panel to control RTE processing instead of the door controller
□ (no)	Do Not Unlock Door On Process RTE	✓(yes) □ (no)	This setting is used with "Interlocked" doors that are equipped with an RTE button e.g. PIR RTE. For details on the 'interlock' feature, refer to **R001↓11**
□ (no)	Log RTE	✓(yes) □ (no)	Whether 'RTE presses' are to be recorded.
□ (no)	Turn Style	✓(yes) □ (no)	Escort can use card 2nd time to enter after using once to validate at Anti-Pass Back door.
□ (no)	Entry Detection	✓(yes) □ (no)	Second try at Anti-Pass Back door if first unlock missed. I.e. door was not opened at 1st unlock.

RTE = “Request to Exit”

R001↓08 Keypad Selections
(left to right on keypad screen) **Example:**

```
06·10·14·0·0·☐☐····
↓Save          R001↓08
```

Default	Name	Selections	Description
06	Door Held Open Time	00-31 (Delay Table) 06 =15 Sec	How long the door can be held open after access is granted without causing an alarm.
10	Challenged Door Held Open Time	00-31 (Delay Table) 10=1 Min	How long the door can be held open without causing an alarm after a physically-challenged user enters. Whether or not the 'Challenged' door held open time applies is based on the 'Challenged' setting for the user. For details, refer to **U001↓02** ("Physically Challenged" Setting).
14	Auxiliary Relay Output Time	00-31 (Delay Table) 14=5Mins	How long the door can be held open after access is granted without causing an alarm.
0	Auxiliary Input Mode	0=None, 1=Mag Lock Bond Sense, 2=Challenged RTE, 3= (future) Panel Control	This specifies how the auxiliary input on this door-controller module is to be used.
0	Auxiliary Relay Output Mode	0=None, 1=Door Held Open / Door Forced **, 2=Door Opener *, 3=future	Operation of the alarm relay on the door-controller module
☐ (no)	Reader Tamper Required	✓(yes) ☐ (no)	Whether or not this reader tamper input is to be monitored.
☐ (no)	Reader tamper as Panel Input	✓(yes) ☐ (no)	

* Will fire output in this mode when auxiliary input mode is set to challenged RTE and auxiliary input is activated.
** Will fire output in this mode when the condition specified in Door Processing Mode is detected.

R001↓09 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
00	Door Forced / Held Time	00-31, Global Delay Table	
0	Door Circuit	0=NC 1=NC/EOL 2=NO/EOL & Form-C SEOL 3=Form-C DEOL	The type of circuit/wiring being used with the door contact.
0	RTE Circuit (request to exit)	0=NC 1=NC/EOL 2=NO/EOL & Form-C SEOL 3=Form-C DEOL	The type of circuit/wiring being used with the RTE input.
0	Reader Tamper Circuit	0=NC 1=NC/EOL 2=NO/EOL & Form-C SEOL 3=Form-C DEOL	The type of circuit/wiring being used with the reader tamper.
0	Auxiliary Circuit	0=NC 1=NC/EOL 2=NO/EOL & Form-C SEOL 3=Form-C DEOL	The type of circuit/wiring being used with the aux. input.
☐ (no)	Do Not Lock on Door Closure	✓(yes) ☐ (no)	
☐ (no)	Insertion Reader	✓(yes) ☐ (no)	
☐ (no)	Force Door Buzzer stops on Closure	✓(yes) ☐ (no)	

Legend: 0 = NC: Circuit type 0 (Normally Closed), 1 = NC/EOL: Circuit type 1 (Normally Close with EOL), 2 = NO/EOL: Circuit type 2 (Normally Open with EOL and Form C Single EOL), 3 = Circuit type 3 (Form C Dual EOL).

R001↓10 Keypad Selections
(left to right on keypad screen) **Example:**

```
000 · 0 · 0 · 1 · 2 · □□□ ·
↓Save          R001↓10
```

Default	Name	Selections	Description
000	Unlock Mode Schedule	000 = Treat as In Window setting 001 – 050 (Schedule)	Enter a schedule for automated door unlocking.
0	Unlock In Schedule	0=Lock, 1=Unlock, 2=Pending First User, 3=Area is OFF, 4=Area Stay/OFF	The unlock mode for while the schedule is active (or 24 hrs).
0	Unlock Out of Schedule	0=Lock, 1=Unlock, 2=Pending First User, 3=Area is OFF, 4=Area Stay/OFF	The unlock mode for after-hours (outside of the sched.)
1	Arming Level	0=Not legal, 1= Stay/On 2= Future 3= On only	Select the area arming levels for this door to be monitored.
2	Token Format	0=none, 1=future (dallas), 2=weigand 3=mag	This is the type of tokens and readers assoc. with this door.
☐ (no)	Detect Wandering Patient	✓(yes) ☐ (no)	Enable wandering patient(s) detection.
☐ (no)	Lock On Wandering Patient	✓(yes) ☐ (no)	This allows having the door lock when a wandering patient is detected.
☐ (no)	In/Out Station	✓(yes) ☐ (no)	For a reader used to log personnel entries & exits only. This refers to a 'time-clock' or 'In/Out Status' application for a reader that is typically NOT wired to a door lock.

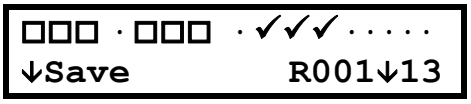
R001↓11 Keypad Selections (left to right on keypad screen)

Default	Name	Selections	Description
☐ (no)	Interlock Required	✓(yes) ☐ (no)	A second interlock door can not be opened until the interlock door that was first opened is closed.
01	Interlocked Door 1	2 Digits 00 – 32 00 - No interlock 1-32 (Door Number)	
01	Interlocked Door 2	2 Digits 00 – 32 00 - No interlock 1-32 (Door Number)	
01	Interlocked Door 3	2 Digits 00 – 32 00 - No interlock 1-32 (Door Number)	
06	Interlock Delay	00-31 (Delay Table) 06 = 15 Sec	

R001↓12 Keypad Selections Held Open Door Processing (left to right on keypad screen)

Default	Name	Selections	Description
☐ (no)	Held Open Processing Transmit Off	✓(yes) ☐ (no)	
☐ (no)	Held Open Processing Transmit Stay	✓(yes) ☐ (no)	
☐ (no)	Held Open Processing Transmit On	✓(yes) ☐ (no)	
☐ (no)	Held Open Processing Siren Off	✓(yes) ☐ (no)	
☐ (no)	Held Open Processing Siren Stay	✓(yes) ☐ (no)	
☐ (no)	Held Open Processing Siren On	✓(yes) ☐ (no)	
✓(yes)	Held Open Processing Alert Off	✓(yes) ☐ (no)	
✓(yes)	Held Open Processing Alert Stay	✓(yes) ☐ (no)	
✓(yes)	Held Open Processing Alert On	✓(yes) ☐ (no)	

R001↓13 Keypad Selections Forced Open Door Processing
(left to right on keypad screen) **Example:**



Default	Name	Selections	Description
☐ (no)	Forced Open Processing Transmit Off	✓(yes) ☐ (no)	
☐ (no)	Forced Open Processing Transmit Stay	✓(yes) ☐ (no)	
☐ (no)	Forced Open Processing Transmit On	✓(yes) ☐ (no)	
☐ (no)	Forced Open Processing Siren Off	✓(yes) ☐ (no)	
☐ (no)	Forced Open Processing Siren Stay	✓(yes) ☐ (no)	
☐ (no)	Forced Open Processing Siren On	✓(yes) ☐ (no)	
✓(yes)	Forced Open Processing Alert Off	✓(yes) ☐ (no)	
✓(yes)	Forced Open Processing Alert Stay	✓(yes) ☐ (no)	
✓(yes)	Forced Open Processing Alert On	✓(yes) ☐ (no)	

R001↓14 Keypad Selections Magnetic Lock Alarm Processing (left to right on keypad screen)

Default	Name	Selections	Description
☐ (no)	Mag Lock Processing Transmit Off	✓(yes) ☐ (no)	
☐ (no)	Mag Lock Processing Transmit Stay	✓(yes) ☐ (no)	
☐ (no)	Mag Lock Processing Transmit On	✓(yes) ☐ (no)	
☐ (no)	Mag Lock Processing Siren Off	✓(yes) ☐ (no)	
☐ (no)	Mag Lock Processing Siren Stay	✓(yes) ☐ (no)	
☐ (no)	Mag Lock Processing Siren On	✓(yes) ☐ (no)	
✓(yes)	Mag Lock Processing Alert Off	✓(yes) ☐ (no)	
✓(yes)	Mag Lock Processing Alert Stay	✓(yes) ☐ (no)	
✓(yes)	Mag Lock Processing Alert On	✓(yes) ☐ (no)	

The following program sections are only applied using the Director Software and Feature Expansion Board. Displays in these keypad programming screens are for viewing only.

C001 - C060 (Suite Security LED Keypads) Condominium

Suite Security LED keypad modules provide security and monitoring features for up to 60 individual suite units associated with a specific main panel. 8 Zone suite security LED keypads support 8 monitored sensors/inputs, 2 programmable outputs, and 3 'panic keys'. '2 Zone' LED units support 2 monitored sensors/inputs, one panic key, and one programmable output.

These "Suite Security" keypads can be set up **only** through the Director Software (subject to your software version and licensing agreement). For details, refer to the on-line help or User's Guide for your Director Software.

Each panel supports all 8 zone or 2 zone or a mixture of both at a maximum of 60 Suite Security LED keypads (with no other modules). If suite security LED keypads are to be mixed with other modules, the suite security capacity will be reduced by **5** for each system LCD keypad, and each other expansion / application module that is added. (For example, with 2 system keypads, 3 door controllers, and one point expansion module, a full-capacity "Enterprise" system could still support 30 suite security units).

Suite Security units are **not** associated with any system 'Areas' or related schedules or settings. All settings that affect suite security-keypad operation are defined through the "Suite Security" screen of the Director Software. Suite Security LED keypads are **NOT** associated with the "Module" screens in any way.

UL / ULC Listed Installations: UL and ULC testing is pending on suite security LED keypads and related features.

V001 - V032 (Elevators/Lifts)

Elevator controller modules provide security and monitoring features for elevator (lift) cabs and associated floors. These units can be set up **only** through the Director Software (subject to your software version and licensing agreement). For details, refer to the on-line help or User's Guide for your Director Software.

Each system can include up to **32** elevators, and a total of up to **124** access-controlled floors. Exception: The elevator capacity is shared with doors (max. 32 combined). Doors also share the elevator numbering (and panel memory space). Numbers already defined as doors will not be available for elevators.

With access-controlled elevators, floor call-buttons are disabled until an authorized person presents their access card. When the card is presented, the specific floors for that person will become available.

UL / ULC Listed Installations: As of this writing, UL and ULC testing is pending on elevator (lift) controllers and related features.

F001 - F124 (Floors)

Systems with elevator controllers can include up to 124 access-controlled floors. These can be in a single building, or the combined total for multiple buildings. Elevator controllers and floors can be set up **only** through the Director Software (subject to your software version and licensing agreement). For details, refer to the on-line help or User's Guide for your Director Software.

Floors can be set to allow free access during certain times based on a chosen schedule. As well, the status & control feature of the Director Software allows manually setting floors to allow free access, or apply controlled-access, as desired.

UL / ULC Listed Installations: As of this writing, UL and ULC testing is pending on elevator (lift) controllers and related features.

Z001 - Z003 (Shared User Data)

Allows Users, Authority Levels and Holidays to be shared across multiple accounts using Director version 4.2. With Director V4.2, this feature is limited to panel feature-set 2, 3, and 4 (1 panel per account, max. 1000 users, etc.). Information for this type of system set-up is available in the v4.2 Director's User Guide.

Shared Users, Authority Levels and Holidays are considered to be under Director control and not panel control. Programming for this selection is not done in the LCD keypad configuration screens. Programming is only done for these selections with the use of the Director software and sent to the panel.

Initiating a "Get from Panel" from the Director software cannot be done for the following reasons:

Shared Users and Holidays

- If changes for these selections have been made at the panel using an LCD keypad and a Get from Panel is done at the Director software, the new information in the panel will be ignored and overwritten with the server's old information.

Shared Authority Levels

- Shared Authority Levels that are not in the panel, will have any new information that has been entered into the server data base for their Areas and Schedules cleared.

Panels with Firmware Earlier than v4.2 and a Get from Panel is Done:

1. If a Shared User has been edited at the panel, only their PIN will be updated. The server will replace any of the other user's data with the server's old information.
2. If a Shared Authority Level is deleted at the panel, any new and valid information for the Authority Level's Areas and Schedules will be cleared at the server and the panel.

Keypad Operations at Panels with v4.2 Firmware

1. Only a Shared User's PIN can be edited at the panel and only by that Shared User.

Shared Authority Levels cannot be deleted at the panel.

Premises IP Module HSC-IP Receiver Communications Programming Sections

Program Section: N001 (Network)
Program Section: J001 (HSC-IP Communications)
Program Section: K001 (HSC-IP Communications with MONITOR ISM/xL)
Refer to Installation Instructions 21-3691E for these programming selections.

Transmitted Messages (SIA & Contact-ID)

General Message Format

Messages are transmitted to the monitoring station using either the "SIA Level II" or "Contact ID" format.

NOTICE: The message formats described here are NOT to be confused with messages provided by the receiver software. (Those messages will typically ***include*** the information discussed here, along with date/time information and proprietary formatting.)

SIA Level II Format

Messages that reference an area: **`N riSSSS / XX PPP`**

System Messages (no area reference): **`N XX PPP`**

Where:

N	This indicates a "new event".
Ri	This indicates "area" (i.e., the next number is an area reference).
SSSS	This is the area number/ID.
XX	This is a two-character SIA alarm code (refer to the SIA message list).
PPP	This is the number/ID for the input point or user associated with the event, or optional information (depending on the type of event).

Sample Messages	Meaning
`N ri2 / BA 227`	Burg. alarm associated with area 2; door 27. (Also see "Door Activity", to follow.)
`N ri4 / BA 73`	Burg. alarm associated with area 4; input-point 73.
`N UX2`	Digital dialer communications test signal.

When creating an account message template: Enter only the two-digit SIA code.
(The "N" is processed automatically by the receiver.)

Account Number Information: This is sent in another message-type, and is automatically understood by the receiver software.

User IDs 998 and Higher: The SIA format supports unique user numbers up to 997 only (998 and above will appear as "998").
User ID "999" is considered to be the "automatic user"--which means an event that was triggered by the system.

Contact ID Format

All CID-Format Messages: **`CCCC QEEE GG ZZZ`**

Where:

CCCC	The account number
Q	An event qualifier: "1" is a new event (shown as "E" in the contact-ID message list), and "3" means a restoral (shown as "R" in the list).
EEE	This is a three character CID alarm code (refer to the Contact-ID message list).
GG	This is the "area" number/ID.
ZZZ	This is the number/ID for the input point (zone) or the user associated with the event.

Sample Messages	Meaning
`1234 1110 02 003`	Account 1234, Fire Alarm detected in area 02 by input-point 003.
`1234 1301 01 000`	Account 1234, AC trouble (reported as Area 1 by default)
`1234 3301 01 000`	Account 1234, AC restoral (reported as Area 1 by default)

When creating an account message template: Enter only the three-digit CID code.
(The leading event qualifier is processed automatically by the receiver.)

User IDs 998 and Higher: The CID format supports unique user numbers up to 997 only (998 and above will appear as "998").
User ID "999" is considered to be the "automatic user"--which means an event that was triggered by the system.

Door Activity

Access-controlled doors report burglar or tamper alarms as regular access door input numbers **201 through 232 for Monitor ISM** systems and **501 through 532 for Monitor xL** systems when an area is armed. The leading digit "2" defines the activity as a burglary type alarm. The secondary two digits identify the door ID/numbers 1 to 32.

Door Forced alarms report as "burgs" but are identified by the leading digit: 3. If "door forced" is configured, it reports as "3" when the area is disarmed. It will report as a "2" followed by a "3" ("door forced" if configured) when an area is armed. 301 to 332 are door-forced alarms for doors: 1 - 32.

Door Held Open alarms report as "burgs" but are identified by the leading digit: 4. If "door held open" is configured, it reports as "4" when the area is disarmed. Like "door forced", it is possible to receive a "2" (burg) followed by a "4" ("door held", if configured) when an area is armed. 401 to 432 are door held open alarms for doors: 1 - 32.

However, when an area is armed, it is not possible to receive a 2, 3 and a 4. If a door is forced, a 2 and a 3 are received. If a door is opened by an access device and held open, a 2 and a 4 are received. Similarly, restores for these alarms report as "burg restore" for door point alarms: 201 - 232, door forced alarms: 301 - 332 and door held open alarms 401 - 432.

Event Message Reference: Sorted by SIA Code

SIA	CID equiv.	Description / Meaning	Level
AR	R301	AC Trouble (E003--Restore)	Emergency
AT	E301	AC Trouble (E003)	Emergency
BA	E130	Burglary	Emergency
BR	R130	Burglary --Restore	Emergency
BS	E155	Point-Test Fail	Emergency
BT	E383	Burglary --Tamper	Emergency
CA	R403	Automatic Area On (Sched. auto-arm on fail to close)	Full
CE	E405	Work late (Closing extended)	Emergency
CF	R402	Turn Area On (Bypass or Forced)	Full
CI	E453	Fail to Turn Area On (Fail to Close)	Emergency
CL	R401	Turn Area On (Normal)	Full
DG	E422	Second User Authority Granted for Dual Custody	Full
DU	E458	Verify User	Emergency
EE	E134	Fail to Exit Area	Emergency
ER	R143	Module tamper/comms/subst'n (E011--Restore)	Emergency
ET	E143	Module Trouble--tamper/comms/subst'n (E011)	Emergency
FA	E110	Fire or Fire-Class A	Emergency
FR	R110	Fire or Fire-Class A--Restore	Emergency
FT	E380	Fire or Fire-Class A--Tamper	Emergency
HA	E121	Duress Pin	Emergency
JR	E404	Schedule resumed (Stay opened resume)	Emergency
JS	E459	Schedule suspended (Stay opened suspended)	Emergency
JT	E625	Time Changed (E007)	Emergency
LB	E306	Main panel Config Changed (E008)	Emergency
LR	R351	Phone Trouble (E004--Restore)	Emergency
LS	R330	Main panel Program Error (E009--Restore)	Emergency
LT	E351	Phone Trouble (E004)	Emergency
LU	E330	Main panel Program Error (E009)	Emergency
LX	R306	Main panel Config Changed (E008--Restore)	Emergency
MA	E100	Aux. Alert	Emergency
MR	R100	Aux. Alert--Restore	Emergency
MT	E380	Aux. Alert--Tamper	Emergency
NF	R456	Turn Area to Stay (Bypass or Forced)	Full
NK+	R407	Emergency Stay Out of Schedule	Emergency
NL	R408	Turn Area to Stay (Normal)	Full
NR+	R457	Unauthorized Stay If No Emergency Off	Emergency
OA	E409	Automatic Area Off (SDC5 type points)	Full
OG	R441	Turn Area to Stay from On	Full
OK	E451	Emergency Off (schedules)	Emergency
OP	E401	Turn Area Off	Full
OR	E450	Unauthorized Off (schedules)	Emergency
PA	E120	Holdup	Emergency
PA or E120 with event code "**199**" for Monitor ISM and "**299**" for Monitor xL		Global Lockout Alarm caused by invalid card/PIN use in Area.	Emergency
PR	R120	Holdup--Restore	Emergency
PA or E120 with event code "**199**" for Monitor ISM and "**299**" for Monitor xL		Global Lockout Alarm Restore in Area.	Emergency
PT	E380	Holdup--Tamper	Emergency
QA	E140	Vault/Safe	Emergency
QR	R140	Vault/Safe--Restore	Emergency
QT	E380	Vault/Safe--Tamper	Emergency

(SIA codes--continued from preceding page)

RB	E380	Module Program Changed (E013)	Emergency
RC	R354	Misc Trouble (E015--Restore)	Emergency
ri	n/a	Area-number reference	Emergency
RN	R380	Module Program Changed (E013--Restore)	Emergency
RO	E354	Misc Trouble (E015)	Emergency
RR	E305	Time Lost (E006)	Emergency
RS	R145	Module Program Error (E014--Restore)	Emergency
RU	E145	Module Program Error (E014)	Emergency
TA	E300	Main panel Tamper (E001)	Emergency
TR	R300	Main panel Tamper (E001--Restore)	Emergency
TS	E607	Walk or Holdup Test Started (no msg at end of test)	Emergency
UA	E150	Misc/No Type	Emergency
UR	R150	Misc/No Type--Restore	Emergency
UT	E380	Misc/No Type--Tamper	Emergency
UX0	E354	Digital Dialer Comms Failure (Messages Lost)	Emergency
UX1	E356	Security IP Comms Failure (Messages Lost, Sync Lost, Reset)	Emergency
UX2	E602	Digital Dialer Comms Test	Emergency
XR	R384	Module Battery Low--e.g. wireless xmitr (E012--Restore)	Emergency
XT	E384	Module Battery Low--e.g. wireless transmitter (E012)	Emergency
YC	E333	Security IP Comms Trouble (E016)	Emergency
YK	R333	Security IP Comms Trouble (E016--Restore)	Emergency
YM	E309	No battery (E002)	Emergency
YP	E320	Main panel Fuse Failure (E010)	Emergency
YQ	R320	Main panel Fuse Failure (E010--Restore)	Emergency
YR	R309	No or low battery (E002--Restore)	Emergency
YS	E350	Report Delayed, dialer comms trouble (E005)	Emergency
YT	E302	Low Battery (E002)	Emergency

Event Message Reference: Sorted by CID Code

CID	SIA equiv.	Description / Meaning	Level
E100	MA	Aux. Alert	Emergency
E110	FA	Fire or Fire Class A	Emergency
E120	PA	Holdup	Emergency
E120 or PA with event code "**199**" for Monitor ISM and "**299**" for Monitor xL		Global Lockout Alarm caused by invalid card/PIN use in Area.	Emergency
E121	HA	Duress Pin	Emergency
E130	BA	Burglary	Emergency
E134	EE	Fail to Exit Area	Emergency
E140	QA	Vault/Safe	Emergency
E143	ET	Module Trouble--tamper/comms/subst'n (E011)	Emergency
E145	RU	Module Program Error (E014)	Emergency
E150	UA	Misc/No Type	Emergency
E155	BS	Point-Test Fail	Emergency
E300	TA	Main panel Tamper (E001)	Emergency
E301	AT	AC Trouble (E003)	Emergency
E302	YT	Low Battery (E002)	Emergency
E305	RR	Time Lost (E006)	Emergency
E306	LB	Main panel Config Changed (E008)	Emergency
E309	YM	No battery (E002)	Emergency
E320	YP	Main panel Fuse Failure (E010)	Emergency
E330	LU	Main panel Program Error (E009)	Emergency
E333	YC	Security IP Comms Trouble (E016)	Emergency
E350	YS	Report Delayed, dialer comms trouble (E005)	Emergency
E351	LT	Phone Trouble (E004)	Emergency

(CID codes--continued from preceding page)

E354	UX0	Digital Dialer Comms Failure (Messages Lost), **or**;	Emergency
	RO	Misc Trouble (E015)	Emergency
E356	UX1	Security IP Comms Failure (Messages Lost, Sync Lost, Reset)	Emergency
E380	FT	Fire Class A--Tamper, **or**;	Emergency
	FT	Fire--Tamper, **or**;	Emergency
	PT	Holdup--Tamper, **or**;	Emergency
	MT	Aux. Alert--Tamper, **or**;	Emergency
	QT	Vault/Safe--Tamper, **or**;	Emergency
	UT	Misc/No Type--Tamper, **or**;	Emergency
	RB	Module Program Changed (E013), **or**;	Emergency
E383	BT	Burglary --Tamper	Emergency
E384	XT	Module Battery Low--e.g. wireless transmitter (E012)	Emergency
E401	OP	Turn Area Off	Full
E404	JR	Schedule resumed (Stay opened resume)	Emergency
E405	CE	Work late (Closing extended)	Emergency
E409	OA	Automatic Area Off (SDC5 type points)	Full
E422	DG	Second User Authority Granted for Dual Custody	Full
E450	OR	Unauthorized Off (schedules)	Emergency
E451	OK	Emergency Off (schedules)	Emergency
E453	CI	Fail to Turn Area On (Fail to Close)	Emergency
E458	DU	Verify User	Emergency
E459	JS	Schedule suspended (Stay opened suspended)	Emergency
E602	UX2	Digital Dialer Comms Test	Emergency
E607	TS	Walk or Holdup Test Started (no msg at end of test)	Emergency
E625	JT	Time Changed (E007)	Emergency
R100	MR	Aux. Alert--Restore	Emergency
R110	FR	Fire or Fire-Class A--Restore	Emergency
R120	PR	Holdup--Restore	Emergency
R120 or PR with event code "**199**" for Monitor ISM and "**299**" for Monitor xL		Global Lockout Alarm Restore (caused by invalid card/PIN use in Area).	Emergency
R130	BR	Burglary --Restore	Emergency
R140	QR	Vault/Safe--Restore	Emergency
R143	ER	Module tamper/comms/subst'n (E011--Restore)	Emergency
R145	RS	Module Program Error (E014--Restore)	Emergency
R150	UR	Misc/No Type--Restore	Emergency
R300	TR	Main panel Tamper (E001--Restore)	Emergency
R301	AR	AC Trouble (E003--Restore)	Emergency
R306	LX	Main panel Config Changed (E008--Restore)	Emergency
R309	YR	No/Low battery (E002--Restore)	Emergency
R320	YQ	Main panel Fuse Failure (E010--Restore)	Emergency
R330	LS	Main panel Program Error (E009--Restore)	Emergency
R333	YK	Security IP Comms Trouble (E016--Restore)	Emergency
R351	LR	Phone Trouble (E004--Restore)	Emergency
R354	RC	Misc Trouble (E015--Restore)	Emergency
R380	RN	Module Program Changed (E013--Restore)	Emergency
R384	XR	Module Battery Low--e.g. wireless transmitter (E012--Restore)	Emergency
R401	CL	Turn Area On (Normal)	Full
R402	CF	Turn Area On (Bypass or Forced)	Full
R403	CA	Automatic Area On (Sched. auto-arm on fail to close)	Full
R407	NK+	Emergency Stay Out of Schedule	Emergency
R408	NL	Turn Area to Stay (Normal)	Full
R441	OG	Turn Area to Stay from On	Full
R456	NF	Turn Area to Stay (Bypass or Forced)	Full
R457	NR+	Unauthorized Stay If No Emergency Off	Emergency

European and ACPO Installations

Restoring Tampers

Once a tamper condition occurs it will be logged within the system's history log. Tampers can be silenced by any authorized users however, a system message will scroll on the LCD display to indicate that a tamper condition had occurred: "Was in Tamper".
This message can only be cleared during a service call in the following manner:

i) The main panel cabinet must be opened to activate the 'tamper sensor'
ii) The system will generate a tamper alarm; this must be first silenced by the authorized user.
iii) Next, the Service user ID and Pin must be entered followed by the ID and Pin of the authorized user.
iv) Close the main panel cabinet to secure the tamper sensor.

System Conditions that will Block Arming

The system will block arming when the following conditions are active:

- System Tamper
- Module Tamper
- Module Communications Failure
- Prime Power Fault
- Battery Fault
- Communicator Fault
- Detector in active / fault condition

The following conditions that block the arming can be overridden by the user:

- Detector in active / fault condition
- Prime power fault

All other blocking conditions must be either corrected or overridden by a Service Engineer.

ACPO Installation Requirements

The following is required in the UK to ensure conformity with the DD243:2004 Standard. LCD Keypad configuration screen numbers are referenced through out.

Programming:

System

- When powering up a new panel, activate the U.K. functionality. Refer to System Programming S002:00, "Panel Operation Mode" and select option "2".
- To allow disarming using ACE as described in the DD243 standard, the system must be configured for 'Supports Access + Intrusion' (Screen S002:01). **This is necessary to generate a Confirmed Alarm.**
- Pin Duress must be enabled to signal Personal Attacks and Holdups. Refer to System Programming S002:01. Select "√ Yes" for "Allow Duress PINS".

Authority

- Auto – Remove Bypass should be set for all user authority levels to ensure that any automatic bypasses made as a result of a DD243 are lifted when the system is disarmed. Refer to Profile Programming I0XX:01. Select "√ Yes" for selection 4: "Auto-Remove Bypass".

To enable user authorities to Test the siren and strobe, ensure the "√ Yes" is selected for the Test option in Profile Programming I0XX:0I, selection 5: "Test".

Area

- 'Stay on Fail to Exit' must be disabled so that the system will only arm if the external exit button is pushed. Refer to Area Programming A0XX:01 and ensure selection 5 is set as "☐ No".
- 'Terminate Exit Delay' must be disabled so that opening and closing the exit door will not terminate the exit delay, this should be done by pushing the exit button to terminate the exit delay. Refer to Area Group A0XX:01 selection 7 and set as "☐ No".
- 'Alarm on Fail to Exit' must be enabled to ensure that the system will indicate locally if the exit button has not been pushed. This will disarm the area to off on failure to exit properly due to not pushing the exit button. Refer to Area Group A0XX:01 selection 6 and set as "√ Yes".
- 'Siren Squawk on Arming' must be enabled to locally annunciate arming. Refer to Area Group A0XX:02 selection 4 and set as "√ Yes".

Exit Button

To setup the exit button as required in DD243 a custom point type must be first created.

- Create a custom point type in the Custom Point Programming T0XX:00 to, Level = 0 (24 hr, Always), Characteristic Type = 40 (Command Point) and Class = 6 (Supervisory).
- Assign the newly created custom point type to an appropriate input point. See Input Programming PXXX:00.

Switched Communicator Line Faults

This system provides capabilities to Enable Line Failure from switched communicators. This feature is provided on the World Wide Modem. For details please refer to Installation Instructions 21-3611.

Output Points

When using a switched reporting unit such as the 'BT Redcare' the following is recommended:

a) Use the 8 output STU (subscriber terminal unit) REDCARE Interface on the World Wide Modem to provide the switched outputs.

b) The switched outputs can be configured to monitor the system as a whole or monitor just a single area. The following is the recommended configuration.

See "B001 – B128 Programmable Outputs" section for output programming instructions.

System Wide

Unit Input:	Alarm Type:	System Output Code:
1	Fire	59
2	Personal Attack	60
3	Unconfirmed Alarm (Intruder)	61
4	Set / Unset Open / Close (Intruder) – System Setting	62
5	Freezer or Fire Fault	63
6	Circuit Bypassed (Intruder)	64
7	Confirmation (Intruder)	65
8	Spare	
System Siren		66
Confirmed Alarm Strobe		67

Area Monitoring

Unit Input:	Alarm Type:	Area Output Code:
1	Fire	65
2	Personal Attack	66
3	Unconfirmed Alarm (Intruder)	67
4	Set / Unset Open / Close (Intruder) – System Setting	68
5	Freezer or Fire Fault	69
6	Circuit Bypassed (Intruder)	70
7	Confirmation (Intruder)	71
8	Spare	
System Siren		63
Confirmed Alarm Strobe		64

Resetting Confirmed Alarms.

Once a confirmed alarm occurs at a site, the user will be able to disarm and silence the system; the confirmed alarm strobe output will also turn off. However, arming will be blocked until reset by an Engineer during a service call in the following manner:

i) The main panel cabinet must be opened to activate the 'tamper sensor'

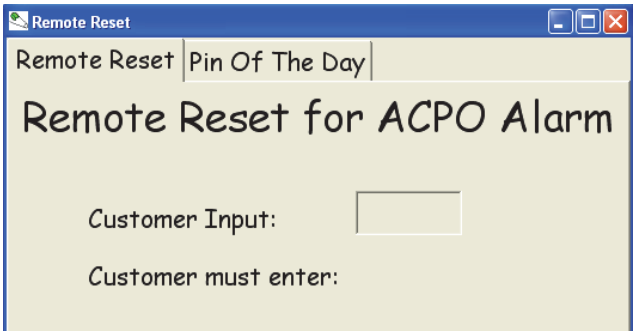
ii) The system will generate a tamper alarm; this must be first silenced by the authorized user.

iii) Next, the Service user ID and Pin must be entered followed by the ID and Pin of the authorized user.

iv) Select "Reset Confirmed Alarm".

v) Close the main panel cabinet to secure the tamper sensor.

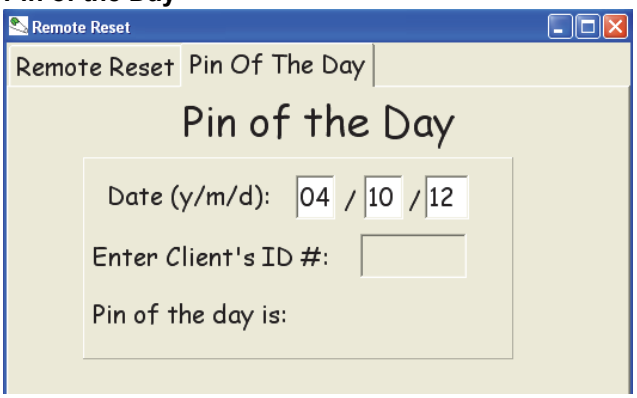
Remote Reset



For customers who would rather reset the ACPO alarm themselves, instead of a service/engineer person attending and doing it.

- When the ACPO alarm occurs, the LCD keypad screen will display a 6 digit code.
- The customer notifies the monitoring station with this number.
- The monitoring station enters the number in this program's "Customer Input:" box and generates a response 6 digit number.
- The monitoring station gives this response number to the customer who enters it into the keypad and can reset the ACPO alarm.

Pin of the Day



For Dealers to protect their sites.

- "Pin of the Day" is selected in **S002↓01.** A Dealer ID is entered in program section **S002↓04**.
- The Dealer notifies the monitoring station for a Pin of the Day to access the control unit box.
- The monitoring station enters the Dealer's ID number in this program's "Enter Client's ID#:" box and presses Enter on the computer keyboard. This will generate a response 6 digit number next to "Pin of the day is:".
- The monitoring station gives this response number to the Dealer.
- The Dealer tampers the control box by opening its door.
- The Dealer enters the 6 digit Pin of the Day at the keypad to silence the tamper alarm and can then begin his work.
- This Pin of the Day will last 24 hours from the time it is initiated at the site.

- The Date of the Pin of the Day program and the site's system date on its keypad must be the same.

UK ACPO Pin of the Day

- When a UK system is started up for the first time and the new system initialization (explained in Simplified Installation Guide: "Powering On the System for the First Time") is done selecting UK as the region, the service and master user will need to log on to silence the system.
- After which, the date and time will display on the keypad for entering.
- After the date and time are entered and e.g. a service user has to log on to do programming at the keypad, as soon as they enter their ID, Pin of the Day will be requested.
- The service user will call the Pin of the Day program operator who can enter default "24822" as the new system's default Dealer ID until a unique one can be entered at the keypad or downloaded from the Director software later.
- The service user enters random, 6 digit Pin of the Day number given to them by the operator at the keypad and can then access the system menus and configurations.

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WARNING: Access Control, Elevator and Suite Security selections are only available with the addition of the "Feature Expansion Board" to the System.

N3459