

# Chubb **AFx**<sup>TM</sup>

Integrated Security Management

## **Advanced Installation Guide** rev1.2

Also Supports



Upgrades





## Chubb AFx Feature Enhancements

| Features                                  | Monitor AFx v4.3                     | Chubb AFx 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 |



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

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NOTE: For equipment and simplified keypad configurations programming, see the Simplified Programming Guide 500-3651E.

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

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## Document Revision History

| Revision       | Primary Updates             |
|----------------|-----------------------------|
| 4.4 (Dec 2005) | Monitor version 4.4 Release |

[V4.4 Firmware Introduction:](#) Refer to 500-3652E rev1.1

## *In This Issue:*

### Rev1.2 Additions/Deletions

- UL Approved.
- UL symbol added to back cover.

## 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.

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

### LCD Screen

```
Service
Enter PIN: _ _ _ _
```

- 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.

```
Menu Options
◀ Config ▶ ↓ok
```

- The screen that begins Advanced programming will display.

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

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**: User; **H**: Holidays; **D**: Schedules; **T**: Custom Pt Type; **R**: Door; **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.

- 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.

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

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 been changed, always press the button below ↓Save to retain the change.

- 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.

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

# 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                                                                                                                                                                                                                                                                                                                                          |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>14</b><br>(5 min) | Burglary Siren Time                                                                                                                                     | <b>Siren Time:</b> See Timer Delay Codes Chart 00 = disabled to 22 = 2 hrs max.                                                                                                                                                                                                                                          | How long a siren in the system will sound.<br>(UK ACPO = 16: 15 min)<br>(European = 17: 20 min)                                                                                                                                                                                                                                                      |
| <b>03</b>            | Number of panel inputs                                                                                                                                  | Multiply entries by four (4)<br>E.g. 4 X 1 = 4. Enter "1" for 4 inputs.<br>4 X 2 = 8. Enter "2" for 8 inputs.<br>4 X 3 = 12. Enter "3" for 12 inputs.<br>4 X 4 = 16. Enter "4" for 16 inputs.<br>4 X 5 = 20. Enter "5" for 20 inputs.                                                                                    | Panel default = 2<br>For VBUS input boards connected to the main controller VBUS port. 20 inputs maximum. 12 on main board and 1 VBUS input boards possible.                                                                                                                                                                                         |
| <b>01</b>            | Number of panel outputs                                                                                                                                 | Multiply entries by four (4)<br>E.g. 4 X 1 = 4. Enter "1" for 4 outputs.<br>4 X 2 = 8. Enter "2" for 8 outputs.<br>4 X 3 = 12. Enter "3" for 12 outputs.<br>4 X 4 = 16. Enter "4" for 16 inputs.<br>4 X 5 = 20. Enter "5" for 20 inputs.<br>4 X 6 = 24. Enter "6" for 24 inputs.<br>4 X 7 = 28. Enter "7" for 28 inputs. | Panel default = 2<br>(UK ACPO = 3: 12 outputs)<br>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. |
| <b>0</b>             | Panel Type                                                                                                                                              | 0 = Chubb AFx, 1 = MONITOR AFx, 2 = Future, 3 = Future.                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                      |
| <b>1</b>             | Module Bus (SNAPP) Baud Rate                                                                                                                            | 0 = Auto Minimum (19K2), 1 = Auto Maximum 38K4                                                                                                                                                                                                                                                                           | The communications speed between the main panel and the expansion modules.                                                                                                                                                                                                                                                                           |
| <b>1</b>             | Suite Security (Condo) Baud Rate<br><b>NOTE:</b> 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.                                                                                                                                                                                                                                                                      |
| <b>0</b>             | 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                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>WELCOME</b><br>(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.<br>(UK ACPO = CHUBB SECURITY) |

**S001↓02 Keypad Selections**

(left to right on keypad screen) Example:

|                                    |
|------------------------------------|
| 000000 · □□□□□□□□                  |
| ↓Save                      S001↓02 |

| Default                       | Name                                                                                                                                        | Selections                                                                   | Description                                                                                                                                                                                                                                          |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>000000</b>                 | Panel Unique ID<br>(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 <u>non-zero</u> value set here to match the "Panel Code" in the software. |
| <input type="checkbox"/> (no) | Unlock Doors on Fire Alarm<br><b>NOTE:</b> This feature is only available with the addition of the Feature Expansion Board.                 | ✓ = Global Unlock <input type="checkbox"/> (no)                              | Will a fire alarm unlock all controlled doors in the facility?                                                                                                                                                                                       |
| <input type="checkbox"/> (no) | Auto Update Card Version<br><b>NOTE:</b> This feature is only available with the addition of the Feature Expansion Board.                   | ✓ Allow automatic version update.<br><input type="checkbox"/> 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).                                               |
| <input type="checkbox"/> (no) | Delay Screen                                                                                                                                | ✓(yes) <input type="checkbox"/> (no)                                         | (UK ACPO = ✓yes)                                                                                                                                                                                                                                     |
| <input type="checkbox"/> (no) | Fast Restore                                                                                                                                | ✓(yes) <input type="checkbox"/> (no)                                         | If a point restore is to be sent within 1 min. (as opposed to siren time-out).<br>UK ver. is 12 sec.<br>(UK ACPO = ✓yes)                                                                                                                             |
| <input type="checkbox"/> (no) | Ring Back Required                                                                                                                          | ✓(yes) <input type="checkbox"/> (no)                                         | If monitoring station will cause keypad tone & siren to confirm area arming (for UL).                                                                                                                                                                |
| <input type="checkbox"/> (no) | Suite Securty System<br><b>NOTE:</b> This feature is only available with the addition of the Director Software and Feature Expansion Board. | 0 = Normal, 1 = Different users per area.                                    |                                                                                                                                                                                                                                                      |
| <input type="checkbox"/> (no) | Single Panel                                                                                                                                | ✓(yes) <input type="checkbox"/> (no)                                         | Yes = Single Panel<br>No = Multi Panel connection.                                                                                                                                                                                                   |
| <input type="checkbox"/> (no) | Enable Wall Tamper                                                                                                                          | ✓(yes) <input type="checkbox"/> (no)                                         | Main control box back tamper.<br>(UK ACPO = ✓yes)                                                                                                                                                                                                    |

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

| Default       | Name                           | Selections | Description                                                                                                                                |
|---------------|--------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>000000</b> | 3 <sup>rd</sup> 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:**

|                                    |
|------------------------------------|
| 00·0·0·0·0·0·□□□□·                 |
| ↓Save                      S001↓04 |

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

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

| Default      | Name                 | Selections                                           | Description                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------|----------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>01100</b> | AC Reference Voltage | –                                                    | Main panel electrical mains operation.<br>E.g. 01100 = 110.0 Decivolts<br>(UK ACPO = 02200)                                                                                                                                                                                                                                                                                                   |
| <b>070</b>   | Battery Size         | Amp hours X 10<br>E.g. display as 7.0                | (UK ACPO = 17.0)                                                                                                                                                                                                                                                                                                                                                                              |
| <b>0</b>     | 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".<br>DC supply option will not detect power failure condition and will not have a time base sync<br>(UK ACPO = 1) |
| <b>0</b>     | 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                                                                                                                   |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>001</b> | VBUS Panel Output Base                                                                                                                             | See: <b>Main Panel Output Examples:</b> next | What number the outputs that will be used on the main controller's VBUS connection will start at.                             |
| <b>001</b> | Paging Output Base                                                                                                                                 | See: <b>Main Panel Output Examples:</b> next | What number the outputs that will be used on the paging system will start at.<br>Also see S005:08, 09                         |
| <b>001</b> | Output Base for:<br>World Wide Modem with 8 output STU<br>REDCARE interface or 8 output STU<br>REDCARE interface<br>STU = Subscriber Terminal Unit | See: <b>Main Panel Output Examples:</b> next | What number the outputs that will be used with the main control board output plug in boards will start at.<br>(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:

|                                    |
|------------------------------------|
| 00·00·0·0·0·□·.....                |
| ↓Save                      S001↓07 |

| 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<br>1=User Groups Only: users can turn on protection to all groups of areas they are authorized for.<br>2=Manual + User Groups: users can turn on protection to all groups of areas they are authorized for, individual area groups or areas.<br>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.<br>(Will not apply if Delinquent Arming Threshold = 000) |

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

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

**Panel Feature Set Levels and Capacities:**

| Feature         | 01   | 02   | 03   | 04   | 05   | 06   | 07   | 08     | 09     | 10     | 11     | 12     | 13     | 14     |
|-----------------|------|------|------|------|------|------|------|--------|--------|--------|--------|--------|--------|--------|
| Users           | 20   | 100  | 300  | 1000 | 1000 | 2000 | 4000 | 10,000 | 10,000 | 20,000 | 20,000 | 20,000 | 64,000 | 64,000 |
| Doors           | 16   | 16   | 16   | 16   | 32   | 32   | 32   | 32     | 32     | 32     | 32     | 32     | 32     | 32     |
| Schedule        | 50   | 50   | 50   | 100  | 100  | 100  | 100  | 250    | 250    | 250    | 250    | 250    | 250    | 250    |
| Authority       | 30   | 30   | 30   | 100  | 100  | 100  | 100  | 500    | 500    | 500    | 1000   | 1000   | 1000   | 1000   |
| Profile         | 60   | 60   | 60   | 200  | 200  | 200  | 200  | 750    | 750    | 1000   | 1000   | 1000   | 1000   | 1000   |
| User Edit       | 10   | 10   | 10   | 50   | 50   | 50   | 50   | 100    | 100    | 100    | 100    | 100    | 100    | 100    |
| Floor Authority | 0    | 0    | 0    | 50   | 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    |
| Outputs         | 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     |
| Log             | 1024 | 1024 | 1024 | 2048 | 2048 | 2048 | 2048 | 8192   | 8192   | 8192   | 16,364 | 16,364 | 65,536 | 32,768 |
| Module*         | 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     |
| Pseudo Point    | 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     |
| Suite Security  | 0    | 0    | 0    | 0    | 60   | 60   | 60   | 60     | 60     | 60     | 60     | 60     | 60     | 60     |
| Floor           | 0    | 0    | 0    | 50   | 50   | 50   | 50   | 100    | 100    | 100    | 100    | 100    | 100    | 100    |

\* 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:

0 · 0 · 0 · ☒ ☐ ☐ ☒ ☒ ☒ ☐ ☐ ·  
↓Save S002↓01

| Default                                   | Name                                                                                                                                                    | Selections                                                                                                                                       | Description                                                                                                                                                                                                                                                                                   |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0                                         | User Logon Mode                                                                                                                                         | 0 = Standard user ID logon or Card Number logon:<br>1 = 4 digit, 2 = 5 digit, 3 = 6 digit, 4 = 7 digit, 5 = 8 digit<br>6 = 9 digit, 7 = 10 digit | Users can enter their card # at LCD keypad & keypad readers.                                                                                                                                                                                                                                  |
| 0                                         | Service Pin Mode                                                                                                                                        | 0: Permanent<br>1: Temporary<br>2 = 6 Digit Pin of the day                                                                                       | "6 digit pin of the day" service PIN mode <u>related to</u> : "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.<br>1 = escorted by Permanent Users.<br>2 = escorted by a Permanent or Temporary user.               | Escort type a Visitor is accompanied by.                                                                                                                                                                                                                                                      |
| <input type="checkbox"/> (no)             | 5 Digit PIN                                                                                                                                             | <input checked="" type="checkbox"/> (yes) <input type="checkbox"/> (no)                                                                          | Whether or not user PIN entry will require 5 digits.                                                                                                                                                                                                                                          |
| <input checked="" type="checkbox"/> (yes) | PIN Duress                                                                                                                                              | <input checked="" type="checkbox"/> (yes) <input type="checkbox"/> (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).<br><b>Note:</b> Applicable reader(s) must be set for "Card and/or <u>PIN</u> " entry.<br>(UK ACPO = <input type="checkbox"/> no) |
| <input type="checkbox"/> (no)             | Access Panic Tokens<br><b>NOTE:</b> This feature is only available with the addition of the Feature Expansion Board.                                    | <input checked="" type="checkbox"/> (yes) <input type="checkbox"/> (no)                                                                          |                                                                                                                                                                                                                                                                                               |
| <input type="checkbox"/> (no)             | Blind Card Re-enrollment<br><b>NOTE:</b> This feature is only available with the addition of the Feature Expansion Board.                               | <input checked="" type="checkbox"/> (yes) <input type="checkbox"/> (no)                                                                          | Meaningful only if using card enabling feature                                                                                                                                                                                                                                                |
| <input checked="" type="checkbox"/> (yes) | Supports Intrusion                                                                                                                                      | <input checked="" type="checkbox"/> (yes) <input type="checkbox"/> (no)                                                                          | System Type. Viewing only. Dependent on setting in Director Software.                                                                                                                                                                                                                         |
| <input checked="" type="checkbox"/> (yes) | Supports Access<br><b>NOTE:</b> This feature is only available with the addition of the Feature Expansion Board.                                        | <input checked="" type="checkbox"/> (yes) <input type="checkbox"/> (no)                                                                          | System Type. Viewing only. Dependent on setting in Director Software.                                                                                                                                                                                                                         |
| <input checked="" type="checkbox"/> (yes) | Supports Central Station                                                                                                                                | <input checked="" type="checkbox"/> (yes) <input type="checkbox"/> (no)                                                                          | System Type. Viewing only. Dependent on setting in Director Software.                                                                                                                                                                                                                         |
| <input type="checkbox"/> (no)             | Supports: Suite Security Modules<br><b>NOTE:</b> This feature is only available with the addition of the Director Software and Feature Expansion Board. | <input checked="" type="checkbox"/> (yes) <input type="checkbox"/> (no)                                                                          | System Type. Viewing only. Dependent on setting in Director Software.                                                                                                                                                                                                                         |
| <input type="checkbox"/> (no)             | Supports: Elevators<br><b>NOTE:</b> This feature is only available with the addition of the Director Software and Feature Expansion Board.              | <input checked="" type="checkbox"/> (yes) <input type="checkbox"/> (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<br><b>NOTE:</b> The card feature is only available with the addition of the Feature Expansion Board.                                | 1 – 31 (Delay Table), 12 = 2min<br>(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<br><b>NOTE:</b> This feature is only available with the addition of the Feature Expansion Board.                                     | 1 – 31 (Delay Table), 12 = 2min<br>(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<br><b>NOTE:</b> 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.<br>(European = 02)                                                                                                                                                                                                              |
| 0       | Invalid card detection type<br><b>NOTE:</b> 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<br><b>NOTE:</b> 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<br><b>NOTE:</b> This feature is only available with the addition of the Feature Expansion Board.                    | ✓ (yes) □ (no)                                                                                                                                          | □ = invalid card and/or PIN causes local warning only.<br>✓ = local warning & reports to the monitoring station.                                                                                                                                                                                          |

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

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

**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 2 <sup>nd</sup> 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:**

☐ · 06 · 10 · .....  
↓Save      S003↓00

| Default                       | Name                | Selections                            | Description                                                                                                                                      |
|-------------------------------|---------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> (no) | Check for Site Code | ✓ (yes) <input type="checkbox"/> (no) | Whether or not primary-format tokens must have a specific site code to be granted entry.                                                         |
| <b>06</b>                     | Site Code Position  | 1 – 40                                | The position of the 1st digit for the site/system code on these access tokens.<br>Position value changes depending on site code length.          |
| <b>10</b>                     | Site Code Length    | 1 – 16                                | The length of the site code for primary-format tokens (number of digits).<br>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                                                                                                   |
|-------------|---------------------|-------------|---------------------------------------------------------------------------------------------------------------|
| <b>0000</b> | 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.     |
| <b>0000</b> | 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. |
| <b>0000</b> | 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                                                                        |
|-------------------------------|-----------------------|---------------------------------------|------------------------------------------------------------------------------------|
| <input type="checkbox"/> (no) | Check for Version No. | ✓ (yes) <input type="checkbox"/> (no) | Whether or not primary-format tokens will be checked for a current version number. |
| <b>02</b>                     | Version No. Position  | 1 – 40                                | The position of the 1st digit for the version number on these access tokens.       |
| <b>04</b>                     | Version No. Length    | 1 – 16                                | 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                                                                       |
|-----------|---------------------|---------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>16</b> | ID Number Position  | 01 – 40                                           | The position of the 1st digit for the ID number on primary-format access tokens.  |
| <b>20</b> | ID Number Length    | 01 – 32                                           | The length of the card ID-number for primary-format tokens.                       |
| <b>36</b> | No. of Bits / Chars | 01 – 40                                           | The total number of bits (Wiegand) or characters (Magstripe) in the card data.    |
| <b>8</b>  | Bits per Character  | 01 – 08                                           | The number of bits used to represent each character (for magnetic stripe cards).  |
| <b>2</b>  | Card/Token Format   | 0=none, 1=future (dallas), 2=Wiegand, 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                                                                                     |
|-----------|---------------------|------------|-------------------------------------------------------------------------------------------------|
| <b>36</b> | Odd Parity Position | 1 – 40     | The position of the odd-parity 'checksum'.                                                      |
| <b>18</b> | Odd Parity Start    | 1 – 40     | This is the position of the first data-bit to be included for odd-parity checking.              |
| <b>18</b> | 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                                                                                                                                                         |
|-----------|----------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>01</b> | Even Parity Position | 1 – 40     | The position of the even-parity 'checksum'.                                                                                                                         |
| <b>02</b> | Even Parity Start    | 1 – 40     | This is the position of the first data-bit to be included for even-parity checking.                                                                                 |
| <b>18</b> | 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:**

☐ • 02 • 08 • • • • • • • •  
↓Save      S004↓00

| Default                       | Name                | Selections                            | Description                                                                                                                                     |
|-------------------------------|---------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> (no) | Check for Site Code | ✓ (yes) <input type="checkbox"/> (no) | Whether or not secondary-format tokens must have a specific site code to be granted entry.                                                      |
| <b>02</b>                     | Site Code Position  | 1 – 40                                | The position of the 1st digit for the site/system code on these access tokens.<br>Position value changes depending on site code length.         |
| <b>08</b>                     | 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                                                                                               |
|-------------|---------------------|-------------|-----------------------------------------------------------------------------------------------------------|
| <b>0000</b> | 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. |
| <b>0000</b> | 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. |
| <b>0000</b> | 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                                                                          |
|-------------------------------|-----------------------|---------------------------------------|--------------------------------------------------------------------------------------|
| <input type="checkbox"/> (no) | Check for Version No. | ✓ (yes) <input type="checkbox"/> (no) | Whether or not secondary-format tokens will be checked for a current version number. |
| <b>02</b>                     | Version No. Position  | 1 – 40                                | The position of the 1st digit for the version number on these access tokens.         |
| <b>04</b>                     | Version No. Length    | 1 – 16                                | 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:**

|                  |                                     |
|------------------|-------------------------------------|
| 000000·1·0·0·0·0 | <input checked="" type="checkbox"/> |
| ↓Save            | S005↓00                             |

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

**Telco** = Telephone Company**S005↓01 Keypad Selections** (left to right on keypad screen)

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

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

| Default                         | Name                   | Selections | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------|------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Blank</b><br>(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.<br>The phone number can be preceded with <b>P</b> =pulse dialing (default), or <b>T</b> =Tone dialing, and can include <b>D</b> =2 sec Delay, <b>A</b> =Star key (tone dialing), <b>#</b> = Pound Sign (tone dialing), and/or <b>W</b> = Wait for second dial tone. For <b>T</b> 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     |
|------------|--------------------|-------------------------------------|-----------------|
| <b>010</b> | Telco Country Code | 001 = Argentina ...<br>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        | Kazakhstan 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          |                     |                   |

|                               |                                                                                         |                                       |                                                                                                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> (no) | Parallel STU 8OP Supports Line Fail                                                     | ✓ (yes) <input type="checkbox"/> (no) | World Wide Modem with 8 outputs for Redcare connection monitors Redcare communication failure.<br>(UK ACPO = ✓yes)                                                                  |
| <input type="checkbox"/> (no) | Parallel STU 8OP Line Fail Negative or Positive Polarity STU (Subscriber Terminal Unit) | ✓ (yes) <input type="checkbox"/> (no) | World Wide Modem with 8 outputs for Redcare connection monitors Redcare positive or negative communication failure.<br><input type="checkbox"/> (no) = Positive, ✓ (yes) = Negative |

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

| Default       | Name                            | Selections                                                         | Description |
|---------------|---------------------------------|--------------------------------------------------------------------|-------------|
| <b>000000</b> | Dialer Account Number (Daytime) |                                                                    |             |
| <b>000</b>    | Dialer Daytime Schedule         |                                                                    |             |
| <b>0</b>      | 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                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------|----------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Blank</b><br>(16 characters) | Daytime Phone Number | –          | Daytime phone number the system will dial to transmit reports.<br>The phone number can be preceded with <b>P</b> =pulse dialing (default), or <b>T</b> =Tone dialing, and can include <b>D</b> =2 sec Delay, <b>A</b> =Star key (tone dialing), <b>#</b> = Pound Sign (tone dialing), and/or <b>W</b> = Wait for second dial tone. For <b>T</b> one dialing, ensure the phone line supports this. |

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

| Default                         | Name                    | Selections | Description |
|---------------------------------|-------------------------|------------|-------------|
| <b>Blank</b><br>(16 characters) | Telco Modem Init String | –          |             |

**Telco** = Telephone Company

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

| Default       | Name                    | Selections                                                 | Description                                                                                                              |
|---------------|-------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>000000</b> | SIP Account Password    |                                                            | SIP = Security IP Receiver                                                                                               |
| <b>0</b>      | 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. |
| <b>0</b>      | HSC Timeout             | 0=90sec, 1=3min, 2=5min, 3=10min                           |                                                                                                                          |
| <b>0</b>      | HSC Full Report By Area | 0=full reporting always, 1=use area emergency/full setting |                                                                                                                          |
| <b>0</b>      | SIP Baud Rate           | 0=150, 1=600, 2/3=future                                   |                                                                                                                          |
| <b>0</b>      | 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          |
|-------------------------------|--------------------|----------------------------------------------------------------------------------|----------------------|
| <b>0</b>                      | Paging Mode        | 0 = None, 1 = Numeric SemaDigit w/ HS, 2 = Blind SemaDigit, 3 = SemaPhone,future | Also see S001:06, 07 |
| <input type="checkbox"/> (no) | Paging Output Data | <input checked="" type="checkbox"/> (yes) <input type="checkbox"/> (no)          | Also see S001:06, 07 |

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

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

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

|                    |
|--------------------|
| 00000·0·0·0·0·0·0· |
| ↓Save      S005↓10 |

| Default      | Name                                                | Selections                                                                                                                                                                                                                                                                                                                                              | Description                                                                                                                                                                          |
|--------------|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>00000</b> | Main Control Board Address<br>(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.                                                                                                  |
| <b>0</b>     | Main Control Board Connection Type                  | <b>For viewing only.</b> 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.<br>0: Direct-Cable<br>1: External Modem<br>2: Internal Modem – Bell 103<br>3: IP<br>4: Future<br>5: Internal Modem – World Wide | This specifies the type of connection to a Director software PC.                                                                                                                     |
| <b>0</b>     | Main Control Board Reporting Mode                   | 0: No Main Control Board reporting;<br>1: Blocks of 256 events;<br>2: Alarms (indiv. / small blocks)                                                                                                                                                                                                                                                    | Whether or not alarms or blocks of events will be auto-transmitted to the Director software.<br>Available with Monitor AFx using an external modem or IP or with Chubb AFx using IP. |
| <b>0</b>     | Main Control Board Shared phone line mode           | 0= Not shared, 1= Preemptive always, 2= User intervention required w/ time, 3= Timed                                                                                                                                                                                                                                                                    |                                                                                                                                                                                      |

|          |                                    |                                                                                           |                                                                                                                                                     |
|----------|------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>0</b> | Main Control Board BaudRate        | 0=AutoMin(38K), 1= AutoMax (115K), 2=AutoMin (56K), 3=future                              |                                                                                                                                                     |
| <b>0</b> | 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.<br>Internal: main control board plug in modem.<br>External: external modem |

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

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

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

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

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

| Default                         | Name                                 | Selections | Description |
|---------------------------------|--------------------------------------|------------|-------------|
| <b>Blank</b><br>(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    |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------|
| <b>04</b> | Main Control Board Number of Rings to Answer                                                                                                          |                                                             | (UK ACPO = 02) |
| <b>0</b>  | Suite Security Telco Mode<br><b>NOTE:</b> 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 |                |
| <b>0</b>  | Suite Security Telco Reporting<br><b>NOTE:</b> 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)                                              |                |

|                               |                                         |                                                                         |  |
|-------------------------------|-----------------------------------------|-------------------------------------------------------------------------|--|
| <input type="checkbox"/> (no) | Main Control Board Config Callback Only | <input checked="" type="checkbox"/> (yes) <input type="checkbox"/> (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.<br>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<br>1 = Normally Closed<br>2 = Normally Open<br>3 = Normally Closed Single Series EOL<br>4 = Normally Closed Single Parallel EOL<br>5 = Normally Open Single Series EOL<br>6 = Normally Open Single Parallel EOL<br>7 = Normally Closed Dual Type 1 EOL<br>8 = Normally Closed Dual Type 2 EOL<br>9 = Normally Open Dual Type 1 EOL<br>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****Chubb AFx**

| 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 AFx IMPORTANT: Custom circuit types only applies to Monitor AFx using Chubb AFx 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<br>(16 characters) | Custom Message | SIA uses 1st 5 characters, CID<br>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      A007↓00

| Default                       | Name             | Selections                            | Description                                                                               |
|-------------------------------|------------------|---------------------------------------|-------------------------------------------------------------------------------------------|
| ✓ (yes)                       | Enable this Area | ✓ (yes) <input type="checkbox"/> (no) | Whether or not this Area is defined. Area 1 is enabled by default, and cannot be deleted. |
| “ OFFICE “<br>(12 characters) | Area Name        | –                                     | Customize the same as the “Welcome” message.<br>(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                                                                                                                                 |
|-------------------------------|----------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>09</b> (45 sec)            | Entry Delay                                  | See below.                                                      | The time permitted to disarm the area after an entry door has been opened.<br>(UK ACPO=8: 30 sec)                                           |
| <b>10</b> (60 sec)            | Exit Delay                                   | See below.                                                      | The time permitted to arm the area and exit.<br>(European=09: 45 sec)                                                                       |
| <b>13</b> (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.                                |
| <b>0</b>                      | Fail to Exit Mode                            | 0=Door close, 1=Push button, 2 = Door or push, button, 3 = None | (UK ACPO, European=1)                                                                                                                       |
| <input type="checkbox"/> (no) | Stay on Fail to Exit                         | ✓ (yes) <input type="checkbox"/> (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).          |
| <input type="checkbox"/> (no) | Alarm on Fail to Exit                        | ✓ (yes) <input type="checkbox"/> (no)                           | An alarm will be transmitted if the user fails to exit after arming the area (i.e., if a door is not opened).<br>(UK ACPO, European =✓ yes) |
| ✓ (yes)                       | Terminate Exit Delay<br>(Confirm Exit Delay) | ✓ (yes) <input type="checkbox"/> (no)                           | The 'exit delay' will be reduced when the door closes after the user arms the area and exits.<br>(UK ACPO=□ no)                             |
| <input type="checkbox"/> (no) | Transmit Fail to Exit                        | ✓ (yes) <input type="checkbox"/> (no)                           |                                                                                                                                             |
| <input type="checkbox"/> (no) | Extend Exit-delay on Fail to Exit            | ✓ (yes) <input type="checkbox"/> (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                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>0</b>                      | Exit Delay Warning Type   | 0 = Normal, 1= Warning tone during Exit Delay, 2= Warning continuous 3= Warning continuous + Block arming | (UK ACPO, European =3)                                                                                                                                                                                                                                                                                                                                    |
| <b>2</b>                      | 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.) <b>Note:</b> This setting works only with sensors (input-points) that support "Pre-Alarm Warning". For details, refer to "T080 – T099 (Custom Input-Point Types)". |
| <b>0</b>                      | Report Mode               | 0 = Emergency 1= Full Reporting                                                                           | System signals transmitted by system dialer to monitoring station.                                                                                                                                                                                                                                                                                        |
| <b>0</b>                      | 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)                                                                                                                                                                                                                 |
| <input type="checkbox"/> (no) | Function Key PIN Required | ✓ (yes) <input type="checkbox"/> (no)                                                                     | Whether a user with "Function Key" authority will need to log in to use programmable function-keys 6 – 9 & 0.                                                                                                                                                                                                                                             |
| <input type="checkbox"/> (no) | Dual Custody              | ✓ (yes) <input type="checkbox"/> (no)                                                                     | Two valid user ID / PINs needed to <u>disarm</u> this area.                                                                                                                                                                                                                                                                                               |
| <input type="checkbox"/> (no) | Open Inter-lock Area      | ✓ (yes) <input type="checkbox"/> (no)                                                                     | For all areas set to Yes, only one area can be disarmed at a time.                                                                                                                                                                                                                                                                                        |
| <input type="checkbox"/> (no) | Auto Arm on Door Close    | ✓ (yes) <input type="checkbox"/> (no)                                                                     | Area will arm when any door closes (used with a bank vault door).                                                                                                                                                                                                                                                                                         |
| <input type="checkbox"/> (no) | Suite Security Area       | ✓ (yes) <input type="checkbox"/> (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                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|---------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>000</b>                    | Area Schedule             | 00 = none,<br>01-250 = schedule #                                    | The schedule used to automate this area and enable all scheduling features (if applicable).                                                                                                                                                                                                                                                                                         |
| <b>0</b>                      | Out of Schedule Open      | 0=30min, 1= 2-hours<br>3 = Unlimited                                 | Allowed duration for Disarming outside of schedule.                                                                                                                                                                                                                                                                                                                                 |
| <b>0</b>                      | In Schedule Open          | 0=30min, 1= 2-<br>hours, 3 = Unlimited                               | Allowed duration for Disarming within the schedule.                                                                                                                                                                                                                                                                                                                                 |
| <b>0</b>                      | Work Late Time Extension  | 0=30 min, 1=1hr,<br>2=1.5hr, 3=2hr,<br>4=3hr, 5=4hr, 6=6hr,<br>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.                                                                                                                                                                                                                                                          |
| <input type="checkbox"/> (no) | Limit to Midnight         | ✓(yes) <input type="checkbox"/> (no)                                 | Limit 'work-late' to not extend beyond midnight.                                                                                                                                                                                                                                                                                                                                    |
| <input type="checkbox"/> (no) | Transmit Fail to Close    | ✓(yes) <input type="checkbox"/> (no)                                 | If an area is not armed at the end of its schedule, a fail to close is transmitted to the monitoring station.                                                                                                                                                                                                                                                                       |
| <input type="checkbox"/> (no) | Auto Arm on Fail to Close | ✓(yes) <input type="checkbox"/> (no)                                 | 'Stay-on-fail-to-exit' and 'AutoArm-on-fail-to-close' cannot be ✓(yes) simultaneously.                                                                                                                                                                                                                                                                                              |
| <input type="checkbox"/> (no) | Allow Un-authorized Open  | ✓(yes) <input type="checkbox"/> (no)                                 | Authority needed to disarm after-hours. Whether or not users <b>without</b> '24-hr' authority will be able to disarm this area outside of <b>its</b> open/close schedule, and/or adjust the area closing time (i.e., 'worklate') after <b>their</b> schedule has expired. (For a non-scheduled area, this feature does not apply, since only 'Disarm' authority would be required.) |
| <input type="checkbox"/> (no) | Auto Disarm to Off Always | ✓(yes) <input type="checkbox"/> (no)                                 |                                                                                                                                                                                                                                                                                                                                                                                     |

### A0xx↓04 Automation

#### Keypad Selections (left to right on keypad screen)

Note: "xx" represents the area number.

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

|                       |
|-----------------------|
| 0 • □ □ □ □ . . . . . |
| ↓Save      A001↓05    |

| Default                       | Name                                         | Selections                                                                                | Description                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>0</b>                      | Anti-Pass Back Auto Reset                    | 0:don't autoreset<br>1:10Mins, 2:20Mins,<br>3:30Mins, 4:1Hr,<br>5:4Hrs, 6:8Hrs<br>7:12Hrs | Timed lock out condition for a card holder resets after they failed to read their card to enter/leave previously.                                                                                                                                                                                                                                                              |
| <input type="checkbox"/> (no) | Strict Anti-Pass Back Entry/Exit Enforcement | ✓(yes) <input type="checkbox"/> (no)                                                      | Whether users will be able to enter other areas without having been recorded as leaving the present one.                                                                                                                                                                                                                                                                       |
| <input type="checkbox"/> (no) | No Anti-Pass Back Outside Check              | ✓(yes) <input type="checkbox"/> (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). <b>Note:</b> Cannot be their last known area (to allow this, set APB auto-reset to e.g. 8 hrs). |
| <input type="checkbox"/> (no) | Lockout all Users on Invalid Card            | ✓(yes) <input type="checkbox"/> (no)                                                      | ✓(yes) Lockout all users, even when access is granted (in case of global lockout)                                                                                                                                                                                                                                                                                              |
| <input type="checkbox"/> (no) | Generate Tones on Invalid Card               | ✓(yes) <input type="checkbox"/> (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                                                                                                                                                                                                                |
|-------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>00000</b>                  | Maximum Area Counter                                     | 0 – 16383                                                                                                                                                                                                                                                                        | Maximum number of users counted in an area before an “area full” condition occurs.                                                                                                                                         |
| <b>00</b>                     | Minimum Area Counter                                     | 0 – 15                                                                                                                                                                                                                                                                           | Minimum number of users counted in an area before an “area empty” condition occurs.                                                                                                                                        |
| <b>0</b>                      | Reset Before Schedule in Effect                          | 1 – 7<br>0=Not used,<br>1=1hr prior...<br>2=2hr prior..<br>3=3hr prior.<br>4=4hr prior.<br>5=5hr prior.<br>6=6hr prior.<br>7=7 hrs prior to In Schedule Time                                                                                                                     | User count resets to “0” at the time selected before the area's schedule starts.<br><b>NOTE:</b> there must be a schedule assigned to the area.                                                                            |
| <b>0</b>                      | “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.<br>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.<br>2= Blind mode | Selection “1” <b>NOTE:</b> 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. |
| <input type="checkbox"/> (no) | Reset On Disarm To Off                                   | ✓(yes) <input type="checkbox"/> (no)                                                                                                                                                                                                                                             | User count resets to “0” when the area is turned off.                                                                                                                                                                      |
| <input type="checkbox"/> (no) | Reset On Arm To On                                       | ✓(yes) <input type="checkbox"/> (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                                                                                        |
|-------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>01</b><br>(Immediate)      | Extended Automatic Arming Delay                                        | 1 – 31<br>(Delay Table)                                                                                                                                                                         | Safety margin delay before auto arming begins.                                                     |
| <b>0</b>                      | Extended Automatic Arming Mode                                         | 0 – 7<br>0=Disable<br>1=Arm if Count <= Min, 2=Arm if Inactive, 3=When Count<=Min OR Inactive,<br>4=When Count <= Min AND Inactive, 5,6,7 spare                                                 | Automatically arms an area based on counting users and/or “area activity monitoring”.              |
| <b>0</b>                      | Extended Automatic Arming Warning Level<br>(Warning level when arming) | 0 – 3<br>0=Ignore,<br>1=Warn if users possibly left in area at time of arming,<br>2=Block manually arming warn for auto arming, if users left in.<br>3=Block all types of arming (manu or auto) | 1 = e.g. user count was not least # at arming.<br>2 = e.g. by schedules or other automated arming. |
| <b>1</b>                      | Extended Automatic Arming Level                                        | 0 = (Arm to Stay)<br>1 = (Arm to On)                                                                                                                                                            | Effective if “Extended Auto Arm Mode” has an active setting.                                       |
| <input type="checkbox"/> (no) | Extended Automatic Arming Only if Schedule Not in Effect               | <input type="checkbox"/> (no)<br>Both in and out of schedule.<br><input checked="" type="checkbox"/> (yes)<br>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                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------|-----------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>00</b>                     | Activity Timeout      | 1 – 31<br>(Delay Table)<br>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. |
| <input type="checkbox"/> (no) | Include E/E Route FAP | <input checked="" type="checkbox"/> (yes) <input type="checkbox"/> (no) | Whether Entry/Exit Route & Entry/Exit Route FAP sensors are used to detect area activity.<br>FAP – False Alarm Preventer point type.                                                                                                                                                                                                                          |
| <input type="checkbox"/> (no) | Include Doors         | <input checked="" type="checkbox"/> (yes) <input type="checkbox"/> (no) | Doors are used to detect area activity.                                                                                                                                                                                                                                                                                                                       |
| <input type="checkbox"/> (no) | Alarm On No Activity  | <input checked="" type="checkbox"/> (yes) <input type="checkbox"/> (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                                                                                                                                                                                                                                                                                |
|--------------------------------------------|-------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> (no)<br>All Areas | Area 1 to Area 16 | ✓(yes) <input type="checkbox"/> (no) | Auto arm /disarm shared areas.<br>E.g. Office area and warehouse area with adjoining lunch room area.<br>– Lunch room is auto armed when BOTH office and warehouse are armed.<br>– Lunch room is auto disarmed when EITHER office or warehouse is disarmed.<br>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                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------|-------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> (no)<br>All Areas | Area 1 to Area 16 | ✓(yes) <input type="checkbox"/> (no) | Determines the sequence that areas must follow when being armed / disarmed.<br>E.g. bank premises area with vault area.<br>– When arming – the premises can not be armed UNLESS the vault area is armed first.<br>– 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<br>1 = 1 <sup>st</sup> to arm, 15 = last to arm                                                                                                                                                                | Areas are armed in order of 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> etc. according to their priority.    |
| 00      | Disarming Priority | 0 = No priority checking<br>1 = 1 <sup>st</sup> to disarm, 15 = last to disarm                                                                                                                                                          | Areas are disarmed in order of 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> etc. according to their priority. |
| 0       | Arming Rules       | 0 = Common area never auto armed, manual only<br>1 = Common area auto armed if all shared areas armed,<br>2 = Common area auto armed if any shared area armed,<br>3=All Shared areas Auto armed if common area armed                    |                                                                                                                        |
| 0       | Disarming Rules    | 0 = Common area never auto disarmed, manual only<br>1 = Common area auto disarmed if any shared area disarmed<br>2 = Common area auto disarmed if all shared areas disarmed<br>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                          |
|---------------------------------|-------------------|---------------------------------------|--------------------------------------|
| <input type="checkbox"/> (no)   | Enable Group Area | ✓ (yes) <input type="checkbox"/> (no) | For use with Area Group Mode S001↓08 |
| <b>Blank</b><br>(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                                          |
|--------------------------------------------|-------------------|---------------------------------------|------------------------------------------------------|
| <input type="checkbox"/> (no)<br>All Areas | Area 1 to Area 16 | ✓ (yes) <input type="checkbox"/> (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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------|--------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>00000</b> | Serial Number            | 00000 - 65535                                                                         | 5 digit # on sticker on module circuit board.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>01</b>    | Area                     | 01 – 16                                                                               | Module assigned to which area?<br>2 Digits 01 – 16 = Area #                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>2</b>     | Inputs                   | 0 = 00, 1 = 04, 2 = 08,<br>3 = 12, 4 = 16, 5 = 20,<br>6 = 24, 7 = 32                  | The number of input points (sensors) supported by the module.<br>Default for Area 1: 4, Default for Area 2: 1                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>1</b>     | Outputs                  | 0 = 00, 1 = 04, 2 = 08,<br>3 = 12, 4 = 16, 5 =<br>20, 6 = 24, 7 = 32                  | The number of programmable outputs supported by the module.<br>Default for Area 1: 1, Default for Area 2: 1                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>1</b>     | Exit Delay               | 0 = Never.<br>1 = When arming to Stay or On<br>*2 = Not used<br>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 <b>Stay 1, 2 or On</b> . 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) <input type="checkbox"/> (no)                                                 | Are E/E tones to sound at this (keypad) if a door opened with area armed to 'Stay'.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| ✓ (yes)      | Monitor Tamper           | ✓ (yes) <input type="checkbox"/> (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                                                                                         |
|------------------------------------|---------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>24</b><br>(LCD G-ProxII Keypad) | Module Type (number)                  | See Module Selection Numbers below.                                    |                                                                                                     |
| <b>0</b>                           | LCD Keypad Default Display Mode       | 0=Rolling time, date/Message<br>1=Date only<br>2=future<br>3=future    |                                                                                                     |
| <b>0</b>                           | LCD Keypad Armed LED Display          | 0=Arming state always shown<br>1=Timed<br>2=future<br>3=never          | (UK ACPO = 1)                                                                                       |
| <b>0</b>                           | LCD Keypad Arming Tone Mode           | 0=All E/E tones<br>1=No Exit tone<br>2=No Entry<br>3=No E/E Tones      |                                                                                                     |
| <b>0</b>                           | LCD Keypad Auto Disarm All On Silence | 0=None<br>1=silence all User Areas<br>2=Disarm<br>3=Silence and disarm | (UK ACPO = 1)                                                                                       |
| <b>2</b>                           | LCD Keypad Verify User Mode           | 0=None<br>1=Auto Verify on Silence<br>2=Manual Verify<br>3=future      | (UK ACPO = 0)                                                                                       |
| ✓(yes)                             | LCD Keypad Multi-Badge Mode           | ✓(yes) <input type="checkbox"/> (no)                                   | For keypad modules with external readers only.<br>Yes = triple badge mode<br>No = double badge mode |

## Module Selection Numbers

1 = Map Pod, 2 = Fx LCD, 3 = Other, 4 = V1 Access, 5 = V1 Wireless, 7 = Monitor AFx LCD, 8 = Monitor AFx 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 Chubb AFx LCD, 24 = Chubb AFx LCD GProxII (keypad reader), 25 = Chubb AFx LCD (external reader), 29 = Chubb AFx Input/Output, 32 = Chubb AFx 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:<br>✓(yes) | Area 1 to Area 16 | ✓(yes) <input type="checkbox"/> (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:<br>✓(yes) | Area 1 to Area 16 | ✓(yes) <input type="checkbox"/> (no) | Defines which areas can be armed /disarmed from this e.g. keypad.<br>Required for Area Group Mode assignments<br>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:<br>✓(yes) | Area 1 to Area 16 | ✓(yes) <input type="checkbox"/> (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  |
|------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| <b>000</b> | Schedule                          | 0-250                                                                                                                                                                                      |              |
| <b>01</b>  | 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) |
| <b>01</b>  | Single Badge Out of Schedule Mode | Same selections as "Single Badge In Schedule Mode".                                                                                                                                        | (UK ACPO=05) |
| <b>07</b>  | Hold Badge In Schedule Mode       | Same selections as "Single Badge In Schedule Mode".                                                                                                                                        | (UK ACPO=02) |
| <b>07</b>  | 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                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------|---------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>01</b>                     | Door Number                     |                                                                         | Whether it is the first door or second door on the door module.                                                                                                                                                                                                                                                                                                                                                  |
| <b>03</b>                     | 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)<br>If module is Keypad with internal reader, this number is used by the Delay Table.<br>If module is Keypad with external reader, this number is used to time the double or triple card swipes:<br>00=0.0 sec    04=2.0 sec<br>01=.75 sec    05=2.5 sec<br>02=1.0 sec    06=3.0 sec<br>03=1.5 sec    07=5.0 sec |
| <input type="checkbox"/> (no) | In or Out Reader                | <input checked="" type="checkbox"/> (yes) <input type="checkbox"/> (no) | Assigned to:<br><ul style="list-style-type: none"> <li>• A reader mounted outside an area door to track users that have entered an area.</li> <li>• A reader mounted on the inside of the door to track users that have left the area.</li> </ul>                                                                                                                                                                |
| <input type="checkbox"/> (no) | In or Out Station               | <input checked="" type="checkbox"/> (yes) <input type="checkbox"/> (no) | A reader that tracks a user's location e.g. used like a time clock.                                                                                                                                                                                                                                                                                                                                              |
| <input type="checkbox"/> (no) | Badge Access Control            | <input checked="" type="checkbox"/> (yes) <input type="checkbox"/> (no) |                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <input type="checkbox"/> (no) | Hold PIN Prompt                 | <input checked="" type="checkbox"/> (yes) <input type="checkbox"/> (no) | Personal access device (card, fob) must be held at e.g. keypad reader for a response.                                                                                                                                                                                                                                                                                                                            |
| <input type="checkbox"/> (no) | Disable Single on Badge-Hold    | <input checked="" type="checkbox"/> (yes) <input type="checkbox"/> (no) | This determines whether or not the action defined under 'single' (in or out of schedule) will also occur on a badge-hold action.<br>Not selected: Badge-hold produces action defined under 'single' is included.<br>Selected: Badge-hold action occurs by itself.                                                                                                                                                |
| <input type="checkbox"/> (no) | Disarm Card + PIN               | <input checked="" type="checkbox"/> (yes) <input type="checkbox"/> (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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> (no) | Reader Defined                                                 | ✓ (yes) <input type="checkbox"/> (no)                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>000</b>                    | Card Lockout Schedule                                          | 00 = No scheduled lockout<br>01 – 250 Schedule                          | A schedule to specify when card access will be blocked                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>0</b>                      | Enable or Disable Cards of Type                                | 0 = None<br>1=Escort Req'd<br>2 =non-permanent users. 3 =all users      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>0</b>                      | Enable or Disable Mode                                         | If enabling reader, see Note *1 .<br>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.<br>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) |
| <input type="checkbox"/> (no) | Arming Station or Keypad Reader connected to Reader LCD Keypad | ✓ (yes) <input type="checkbox"/> (no)                                   | NOTE: Bi-colour LED must be enabled for command station <b>R001↓7</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <input type="checkbox"/> (no) | Lockout In Schedule                                            | ✓ (yes) <input type="checkbox"/> (no)                                   | Toggles the lockout between inside of the chosen schedule ( ✓ ), compared to outside of the schedule ( <input type="checkbox"/> ).                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <input type="checkbox"/> (no) | Enabling Reader                                                | ✓ (yes) <input type="checkbox"/> (no)                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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

000·□□□□□□□□·.....

↓Save ↓? M001↓08

**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 |
|-------------------------------|-----------------------|------------------------------------------------|-------------|
| <b>000</b>                    | Class Map Schedule    | 00 = Treat as In Schedule<br>01 – 250 Schedule |             |
| <input type="checkbox"/> (no) | In Schedule A         | ✓(yes) <input type="checkbox"/> (no)           |             |
| <input type="checkbox"/> (no) | In Schedule B         | ✓(yes) <input type="checkbox"/> (no)           |             |
| <input type="checkbox"/> (no) | In Schedule C         | ✓(yes) <input type="checkbox"/> (no)           |             |
| <input type="checkbox"/> (no) | Out of Schedule A     | ✓(yes) <input type="checkbox"/> (no)           |             |
| <input type="checkbox"/> (no) | Out of Schedule B     | ✓(yes) <input type="checkbox"/> (no)           |             |
| <input type="checkbox"/> (no) | Out of Schedule C     | ✓(yes) <input type="checkbox"/> (no)           |             |
| <input type="checkbox"/> (no) | Enable Class Checking | ✓(yes) <input type="checkbox"/> (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 |
|------------|-----------------------------|-------------------------------------------------------------------------|-------------|
| <b>000</b> | Card Mode Schedule          | 00 = Treat as In Schedule setting<br>01 – 250 (Schedule)                |             |
| <b>000</b> | Reader Mode Schedule        | 00 = Treat as In Schedule setting<br>01 – 250 (Schedule)                |             |
| <b>0</b>   | Card Mode In Schedule       | 0=Card only<br>1= Card + PIN<br>2= Card or UID/ PIN<br>3= UID/ PIN only |             |
| <b>0</b>   | Card Mode Out of Schedule   | 0=Card only<br>1= Card + PIN<br>2= Card or UID/ PIN<br>3= UID/ PIN only |             |
| <b>0</b>   | Reader Mode In Schedule     | 0=Normal<br>1= Dual Custody<br>2= Escort<br>3= Future                   |             |
| <b>0</b>   | Reader Mode Out of Schedule | 0=Normal<br>1= Dual Custody<br>2= Escort<br>3= Future                   |             |

## Program Section: P001 (Inputs)

**Pxx1↓00 Keypad Selections** Note: “xx1” represents the input number.

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

201·01·01·.....  
↓Save ↓? P001↓00

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:<br><b>201</b> | Circuit Type                    | 0: N/C (no EOL)<br>1: N/C with 2.2k EOL<br>2: Form “C” single resistor<br>EOL & N/O with 2.2k EOL<br>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:<br><b>201</b> | Point Type                      | 01 - 33: See the Input Point Type Reference table.<br>80 - 99: Custom types programmed in section: T080 - T099.          | Second 2 digits of the input's first, 3 digit code<br>A “000” 3 digit code is an undefined input.                                                             |
| <b>01</b>              | Area this input is assigned to. | —                                                                                                                        | —                                                                                                                                                             |
| <b>01</b>              | 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:<br>“ <b>FRONT DOOR</b> ”<br>(16 available characters) | Input # 1<br>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 | Sonlrt Off | Sonlrt Stay | Sonlrt On | Siren Off | Siren Stay | Siren On |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------|---------|-------|--------|---------|-------|------------|-------------|-----------|-----------|------------|----------|
| <b>01</b> (Entry Door)                                                                                                                                                                                                                                                                               | Burg                                                                                                                                                                                                                                                                                                                 | Stay & On                                | Entry/Exit Door  | —       | ✓     | —      | ✓       | ✓     | —          | ✓           | ✓         | —         | ✓          | ✓        |
| <b>02</b> (Entry Route)                                                                                                                                                                                                                                                                              | Burg                                                                                                                                                                                                                                                                                                                 | ON Only                                  | Entry/Exit Route | ✓       | —     | —      | —       | ✓     | —          | —           | ✓         | —         | —          | ✓        |
| <b>03</b> (Perimeter)                                                                                                                                                                                                                                                                                | Burg                                                                                                                                                                                                                                                                                                                 | Stay & On                                | Immediate        | ✓       | ✓     | —      | ✓       | ✓     | —          | ✓           | ✓         | —         | ✓          | ✓        |
| <b>04</b> (Interior Motion)                                                                                                                                                                                                                                                                          | Burg                                                                                                                                                                                                                                                                                                                 | ON only                                  | Immediate        | ✓       | —     | —      | —       | ✓     | —          | —           | ✓         | —         | —          | ✓        |
| <b>05</b> (Motion-FAP)                                                                                                                                                                                                                                                                               | Burg                                                                                                                                                                                                                                                                                                                 | ON only                                  | FAP              | ✓       | —     | —      | —       | ✓     | —          | —           | ✓         | —         | —          | ✓        |
| <b>FAP:</b> (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. |                                                                                                                                                                                                                                                                                                                      |                                          |                  |         |       |        |         |       |            |             |           |           |            |          |
| <b>06</b> (Day Warning)                                                                                                                                                                                                                                                                              | Burg                                                                                                                                                                                                                                                                                                                 | 24hr                                     | Immediate        | ✓       | —     | —      | —       | ✓     | ✓          | ✓           | ✓         | —         | —          | ✓        |
| <b>07</b> (24hr Burglary)                                                                                                                                                                                                                                                                            | Burg                                                                                                                                                                                                                                                                                                                 | 24hr                                     | Immediate        | ✓       | —     | ✓      | ✓       | ✓     | ✓          | ✓           | ✓         | ✓         | ✓          | ✓        |
| <b>10</b> (Fire - A)                                                                                                                                                                                                                                                                                 | Fire-A                                                                                                                                                                                                                                                                                                               | 24hr                                     | Immediate        | —       | —     | ✓      | ✓       | ✓     | ✓          | ✓           | ✓         | ✓         | ✓          | ✓        |
| <b>11</b> (Fire - Delayed)                                                                                                                                                                                                                                                                           | Fire                                                                                                                                                                                                                                                                                                                 | 24hr                                     | 15s delay        | —       | —     | ✓      | ✓       | ✓     | ✓          | ✓           | ✓         | ✓         | ✓          | ✓        |
| <b>12</b> (Fire - Immed)                                                                                                                                                                                                                                                                             | Fire                                                                                                                                                                                                                                                                                                                 | 24hr                                     | Immediate        | —       | —     | ✓      | ✓       | ✓     | ✓          | ✓           | ✓         | ✓         | ✓          | ✓        |
| <b>13</b> (Hold-up)                                                                                                                                                                                                                                                                                  | holdup                                                                                                                                                                                                                                                                                                               | 24hr                                     | Immediate        | —       | —     | ✓      | ✓       | ✓     | —          | —           | —         | —         | —          | —        |
| <b>14</b> (Aux Alert)                                                                                                                                                                                                                                                                                | Emerg                                                                                                                                                                                                                                                                                                                | 24hr                                     | Immediate        | —       | —     | ✓      | ✓       | ✓     | ✓          | ✓           | ✓         | ✓         | ✓          | ✓        |
| <b>20</b> (Supervisory)                                                                                                                                                                                                                                                                              | Spvsr                                                                                                                                                                                                                                                                                                                | 24hr                                     | Immediate        | ✓       | —     | ✓      | ✓       | ✓     | ✓          | ✓           | ✓         | ✓         | ✓          | —        |
| <b>30</b> (Local - 24hr)                                                                                                                                                                                                                                                                             | Burg                                                                                                                                                                                                                                                                                                                 | 24hr                                     | Immediate        | ✓       | —     | —      | —       | —     | ✓          | ✓           | ✓         | ✓         | ✓          | ✓        |
| <b>31</b> (Local-Stay&On)                                                                                                                                                                                                                                                                            | Burg                                                                                                                                                                                                                                                                                                                 | Stay & On                                | Immediate        | ✓       | ✓     | —      | —       | —     | —          | ✓           | ✓         | —         | ✓          | ✓        |
| <b>32</b> (Future Use)                                                                                                                                                                                                                                                                               | Burg                                                                                                                                                                                                                                                                                                                 | Future Use                               | Future Use       | ✓       | ✓     | —      | —       | —     | —          | —           | —         | —         | —          | ✓        |
| <b>33</b> (Local - ON only)                                                                                                                                                                                                                                                                          | Burg                                                                                                                                                                                                                                                                                                                 | ON only                                  | Immediate        | ✓       | ✓     | —      | —       | —     | —          | —           | ✓         | —         | —          | ✓        |
| <b>80 - 99</b> (Custom)                                                                                                                                                                                                                                                                              | Custom point types as defined in <b>T080 - T099</b> . 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<br>(Command Point,<br>Class: Supervisory.<br><a href="#">See Custom Point Programming and ACPO</a> ) | 01   | 01          | LCLCMLDATEALL  |
| 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 – 24.

(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.<br>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) <input type="checkbox"/> (no) |             |
|         | Transmit Stay | ✓(yes) <input type="checkbox"/> (no) |             |
|         | Transmit On   | ✓(yes) <input type="checkbox"/> (no) |             |
|         | Alert Off     | ✓(yes) <input type="checkbox"/> (no) |             |
|         | Alert Stay    | ✓(yes) <input type="checkbox"/> (no) |             |
|         | Alert On      | ✓(yes) <input type="checkbox"/> (no) |             |
|         | Siren Off     | ✓(yes) <input type="checkbox"/> (no) |             |
|         | Siren Stay    | ✓(yes) <input type="checkbox"/> (no) |             |
|         | Siren On      | ✓(yes) <input type="checkbox"/> (no) |             |

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

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

## 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'. F1-F5 are available to all users, while F6-F9 and F0 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.

### Chubb AFx Panels---VBUS Outputs and Parallel STU outputs

The Chubb AFx panel supports one 8-output modem/STU (w/configurable base value), plus one 8-output 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

- 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).

### LCD Screen

? 0000.00 Undef  
↓Save ↓? Bxxx:0

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

- “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).

? qnnn.cc Query  
↓Save ↓? Bxxx:0

## Output type

- 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.

T itt Timer  
↓Save ↓? Bxxx:1

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

### UK

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

#### Timer Delay Codes (Bxxx : 1)

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

## Output Selections Table

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

| Program Section ("q")<br>"S"ystem |                                                                                                                                                                                                                                              | Section Range ("nnn")<br>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.<br><b>For UL:</b> 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 <b>European Version.</b>                                                                                                                                                         |                                    |
| 17                                | When any 'Supervisory' point is in alarm.                                                                                                                                                                                                    |                                    |
| 18                                | When any 'Pseudo' is in alarm                                                                                                                                                                                                                |                                    |
| 19                                | Pseudo 1 – System Trouble / All type tamper for <b>European Version.</b>                                                                                                                                                                     |                                    |
| 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 / or Card 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 – <b>European Version.</b>                                                                                    |
| 56                               | System Fault – <b>European Version.</b>                                                                                     |
| 57                               | Spare                                                                                                                       |
| 58                               | Bypass is in effect in any armed area.                                                                                      |
| <b>European Version (System)</b> |                                                                                                                             |
| 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")<br>"D" Schedule |                                                     | Section Range ("nnn")<br>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")<br>"H"oliday |                                                      | Section Range ("nnn")<br>Enter 001 – 032 |
|------------------------------------|------------------------------------------------------|------------------------------------------|
| Code "cc"                          | Description                                          |                                          |
| 00                                 | Holiday in Effect (Whether type 1,2, 3 or No Access) |                                          |

| Program Section ("q")<br>"A"rea |                                                                                                                                                          | Section Range ("nnn")<br>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 is in STAY 2 (future)                                                                                                                          |                                          |
| 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 & <b>does not</b> 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")<br>"P"oint (Inputs) |                                                                    | Section Range ("nnn")<br>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")<br>"B" Output State |                                                                                           | Section Range ("nnn")<br>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")<br>"R" Doors |                                                            | Section Range ("nnn")<br>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")<br>"F" loors |                | Section Range ("nnn")<br>Enter 001 – 124 |
|------------------------------------|----------------|------------------------------------------|
| Code "cc"                          | Description    |                                          |
| 00                                 | Floor Desecure |                                          |

| Program Section ("q")<br>"M"odule |                                      | Section Range ("nnn")<br>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")<br>"C" Suite |                                                                        | Section Range ("nnn")<br>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) <input type="checkbox"/> (no)          |                                                                                                      |
| <b>MASTER</b> | 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 |
|------------|-----------------|------------|-------------|
| <b>001</b> | User Edit Group |            |             |
| <b>000</b> | Floor Group     |            |             |

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

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

#### NOTES:

- Profiles created in L001↓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,<br>01-250 = schedule # |             |

### Q001↓01 – 08 Floor Map

Keypad Selections (left to right on keypad screen)

| Default                                     | Name          | Selections                            | Description    |
|---------------------------------------------|---------------|---------------------------------------|----------------|
| <input type="checkbox"/> (no)<br>All Floors | Floor 1 to 16 | ✓ (yes) <input type="checkbox"/> (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) <input type="checkbox"/> (no)          |                                                                                                      |
| <b>PROFILE MSTR</b> | 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) <input type="checkbox"/> (no) |                                                                                                                                 |
| ✓ (yes) | Isolate a trouble point    | ✓ (yes) <input type="checkbox"/> (no) |                                                                                                                                 |
| ✓ (yes) | Bypass                     | ✓ (yes) <input type="checkbox"/> (no) |                                                                                                                                 |
| ✓ (yes) | Auto-Remove Bypass         | ✓ (yes) <input type="checkbox"/> (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) <input type="checkbox"/> (no) |                                                                                                                                 |
| ✓ (yes) | Service Test               | ✓ (yes) <input type="checkbox"/> (no) |                                                                                                                                 |
| ✓ (yes) | Silence Alarm              | ✓ (yes) <input type="checkbox"/> (no) |                                                                                                                                 |
| ✓ (yes) | Status                     | ✓ (yes) <input type="checkbox"/> (no) |                                                                                                                                 |
| ✓ (yes) | History                    | ✓ (yes) <input type="checkbox"/> (no) |                                                                                                                                 |
| ✓ (yes) | Function-Key Authorization | ✓ (yes) <input type="checkbox"/> (no) |                                                                                                                                 |
| ✓ (yes) | Work Late                  | ✓ (yes) <input type="checkbox"/> (no) |                                                                                                                                 |
| ✓ (yes) | Suspend Schedule           | ✓ (yes) <input type="checkbox"/> (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 |
|-----------|-------------------|------------------------------------------------------------------------|-------------|
| <b>00</b> | Group Number      | 0 = No Group Authority Group Number<br>1...62,63 = All Group Authority |             |
| <b>0</b>  | Group Mode        | 0 = "is equal to"<br>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 |
|------------|------------|------------------------------------|-------------|
| <b>000</b> | Schedule A | 0=undefined,<br>1 - 250 schedule # |             |
| <b>000</b> | Schedule B | 0=undefined,<br>1 - 250 schedule # |             |
| <b>000</b> | Schedule C | 0=undefined,<br>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 |
|----------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <b>1</b> | On                    | 0=None, 1=Always, 2=Schedule A in effect, 3=Schedule A not in effect,<br>4=Schedule B in effect, 5=Schedule B not in effect, 6=Schedule C in effect,<br>7=Schedule C not in effect                                                                                                                                                                                                                                                                                                |             |
| <b>1</b> | Off                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |
| <b>1</b> | Stay                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |
| <b>1</b> | 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.                                                                     |             |
| <b>1</b> | 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<br>4=Schedule B in effect, 5=Schedule B not in effect 6=Schedule C in effect<br>7=Schedule C not in effect |             |
| 1       | Class A      |                                                                                                                                                                                 |             |
| 1       | Class B      |                                                                                                                                                                                 |             |
| 1       | Class C      |                                                                                                                                                                                 |             |

| Default Authority Settings | Master<br>I001.00 – 005 | Supervisor<br>I002.00 – 005 | Employee<br>I003.00 – 005 | Worker<br>I004.00 – 005 | Cleaner<br>I005.00 – 005 |
|----------------------------|-------------------------|-----------------------------|---------------------------|-------------------------|--------------------------|
| <b>Intrusion</b>           |                         |                             |                           |                         |                          |
| 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      | ✓                       | ✓                           |                           |                         |                          |

|                                                                                                                |   |   |   |   |   |
|----------------------------------------------------------------------------------------------------------------|---|---|---|---|---|
| <b>Access</b>                                                                                                  |   |   |   |   |   |
| Access when Area is Off/On/Stay                                                                                | ✓ | ✓ | ✓ | ✓ | ✓ |
| Escort                                                                                                         |   | ✓ |   |   |   |
| Master Override                                                                                                | ✓ |   |   |   |   |
| Reset Door Alarm<br>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:

|                    |                |
|--------------------|----------------|
| <b>MASTER USER</b> | <b>001.</b>    |
| <b>↓Save</b>       | <b>U001↓00</b> |

| Default            | Name            | Selections                                       | Description                                                                                         |
|--------------------|-----------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>MASTER USER</b> | 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.) |
| <b>001</b>         | Authority Level | 00 = undefined user<br>01...30 = authority level | Assign an existing Authority Level number.                                                          |

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

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

### U001↓02 Keypad Selections

(left to right on keypad screen) Example:

|                         |
|-------------------------|
| <b>000.□.0.0.□.....</b> |
| <b>↓Save</b>            |
| <b>U001↓02</b>          |

| Default                       | Name                        | Selections                                                                           | Description                                                                                               |
|-------------------------------|-----------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>000</b>                    | Suite Security Floor Number | 0-124                                                                                | Not applicable for feature sets less than 5. Greater than 5 are Director Software/Elevator, display only. |
| <input type="checkbox"/> (no) | Addition Floor              | ✓ (yes) <input type="checkbox"/> (no)                                                | Not applicable for feature sets less than 5. Greater than 5 are Director Software/Elevator, display only. |
| <b>0</b>                      | Suite Security Authority    | 0-7<br>0 Not Assigned by system<br>1 Undefined on the condo<br>2-7 Condo Authorities |                                                                                                           |
| <b>0</b>                      | Language                    | 0 – English<br>1 - French<br>( Only 2-languages currently)                           |                                                                                                           |
| <input type="checkbox"/> (no) | Physically Challenged       | ✓ (yes) <input type="checkbox"/> (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.          | —          | <b>Default MASTER User 001's ID is 001, PIN 7793 (PSWD)</b> |
| — — — — | 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:

04 · 32 · 0 mm·dd·  
↓Save A001↓02

| Default | Name  | Selections                                                                                                                                                                                                                                                                                                | Description |
|---------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 00      | Month | Up to 2 digits:<br>01 – 12<br>13 = Reserved (for future e.g. Easter, Yom Kippur, etc)                                                                                                                                                                                                                     |             |
| 00      | Day   | Up to 2 digits:<br>01 - 31: Day of month<br>32 - 38: 1st Sun–Sat of month<br>39 - 45: Last Sun–Sat of month<br>46 – 52: 2 <sup>nd</sup> Sun–Sat of month<br>53 – 59: 2 <sup>nd</sup> last Sun–Sat of month<br>60 – 66: 3 <sup>rd</sup> Sun–Sat of month<br>67 – 73: 3 <sup>rd</sup> last Sun–Sat of month |             |
| 0       | Type  | One digit<br>0: No access holiday<br>1: Holiday Type One<br>2: Holiday Type Two<br>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.<br>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<br>(00:00) (00:00)<br>(Start) (Stop)  | Schedule starting time and stopping time. | Time Values: 00:00 = Midnight up to 23:50 = 11:50 p.m.<br>Entering 99:90 in Start and Stop will disable the schedule. | –                                                            |
| □ (no)<br>7 days of the week starting with Sunday | Weekdays that schedule applies.           | ✓ (yes) □ (no)                                                                                                        | □ □ □ □ □ □ □<br>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.<br>(UK ACPO custom point # 1 = 40, # 2 = 10)                                                |
| 0       | Class             | 0: Fire Class A (Double Loop); 1: Fire;<br>2: Hold Up; 3: Aux. Alert; 4: Vault /<br>Safe; 5: Burglary; 6: Supervisory | How the input will report to the Monitoring Station.<br>(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                                                              |
|-------------------------------|------------------|---------------------------------------|--------------------------------------------------------------------------|
| <input type="checkbox"/> (no) | Transmit in OFF  | ✓ (yes) <input type="checkbox"/> (no) | Reporting to the Monitoring Station                                      |
| <input type="checkbox"/> (no) | Transmit in STAY | ✓ (yes) <input type="checkbox"/> (no) | Reporting to the Monitoring Station                                      |
| <input type="checkbox"/> (no) | Transmit in ON   | ✓ (yes) <input type="checkbox"/> (no) | Reporting to the Monitoring Station<br>(UK ACPO custom point # 2 = ✓yes) |
| <input type="checkbox"/> (no) | Sonalert in OFF  | ✓ (yes) <input type="checkbox"/> (no) | Keypad sounder active.<br>(UK ACPO custom point # 2 = ✓yes)              |
| <input type="checkbox"/> (no) | Sonalert in STAY | ✓ (yes) <input type="checkbox"/> (no) | Keypad sounder active.                                                   |
| <input type="checkbox"/> (no) | Sonalert in ON   | ✓ (yes) <input type="checkbox"/> (no) | Keypad sounder active.                                                   |
| <input type="checkbox"/> (no) | Siren in OFF     | ✓ (yes) <input type="checkbox"/> (no) | System siren active.                                                     |
| <input type="checkbox"/> (no) | Siren in STAY    | ✓ (yes) <input type="checkbox"/> (no) | System siren active.                                                     |
| <input type="checkbox"/> (no) | Siren in ON      | ✓ (yes) <input type="checkbox"/> (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     | <input type="checkbox"/> (no) | <input type="checkbox"/> (no) | <input type="checkbox"/> (no) |
| T081             | 0     | 10                  | 5     | <input type="checkbox"/> (no) | <input type="checkbox"/> (no) | <input type="checkbox"/> (no) |

| Custom Input Pt. | Transmit OFF                  | Transmit STAY                 | Transmit ON                   | Sonalert OFF                  | Sonalert STAY                 | Sonalert ON                   | Siren OFF                     | Siren STAY                    | Siren ON                      |
|------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| T080             | <input type="checkbox"/> (no) | <input type="checkbox"/> (no) | <input type="checkbox"/> (no) | <input type="checkbox"/> (no) | <input type="checkbox"/> (no) | <input type="checkbox"/> (no) | <input type="checkbox"/> (no) | <input type="checkbox"/> (no) | <input type="checkbox"/> (no) |
| T081             | <input type="checkbox"/> (no) | <input type="checkbox"/> (no) | ✓ (yes)                       | ✓ (yes)                       | <input type="checkbox"/> (no) | <input type="checkbox"/> (no) | <input type="checkbox"/> (no) | <input type="checkbox"/> (no) | <input type="checkbox"/> (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:

|       |           |         |
|-------|-----------|---------|
| 00 ·  | Door Name | 1       |
| ↓Save |           | R001↓00 |

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

|                                    |
|------------------------------------|
| ✓ · 01 · 000 · 0 · 0 · ✓ ✓ □ □     |
| ↓Save                      R001↓01 |

| Default    | Name                                       | Selections                                                                        | Description                                                                   |
|------------|--------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| ✓ (yes)    | 1 <sup>st</sup> Reader Defined             | ✓ (yes)   □ (no)                                                                  |                                                                               |
| <b>01</b>  | Reader Area                                | 2 Digits<br>01 – 16<br>00 – outside area                                          | This is the area being <u>entered</u> by this reader.                         |
| <b>000</b> | Card Lockout Schedule                      | 00 = No scheduled lockout<br>01 – 250 Schedule                                    | A schedule to specify when card access will be blocked.                       |
| <b>0</b>   | 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                                     |
| <b>0</b>   | Enable / Disable Reader Type (Card Action) | If enabling reader, see *1 Note below.<br>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                                                            |
|-------------------------------|---------------------------|------------------------------------------------|------------------------------------------------------------------------|
| <b>000</b>                    | Reader Class Map Schedule | 00 = Treat as In Schedule<br>01 – 250 Schedule | Enter a schedule for reader-class restriction.                         |
| <b>00</b>                     | Group Number              | 00 = none, 1 – 63, Reader Group Number.        |                                                                        |
| ✓(yes)                        | In Schedule A             | ✓(yes) <input type="checkbox"/> (no)           | Whether Class <b>A</b> users can enter during schedule                 |
| ✓(yes)                        | In Schedule B             | ✓(yes) <input type="checkbox"/> (no)           | Whether Class <b>B</b> users can enter during schedule                 |
| ✓(yes)                        | In Schedule C             | ✓(yes) <input type="checkbox"/> (no)           | Whether Class <b>C</b> users can enter during schedule                 |
| ✓(yes)                        | Out of Schedule A         | ✓(yes) <input type="checkbox"/> (no)           | Whether Class <b>A</b> users can enter outside of the sched.           |
| ✓(yes)                        | Out of Schedule B         | ✓(yes) <input type="checkbox"/> (no)           | Whether Class <b>B</b> users can enter outside of the sched.           |
| ✓(yes)                        | Out of Schedule C         | ✓(yes) <input type="checkbox"/> (no)           | Whether Class <b>C</b> users can enter outside of the sched.           |
| <input type="checkbox"/> (no) | Anti-pass Back            | ✓(yes) <input type="checkbox"/> (no)           | Whether cards are to be blocked against re-entry before exiting first. |
| <input type="checkbox"/> (no) | Log APB Violation Only    | ✓(yes) <input type="checkbox"/> (no)           | Whether 'Anti-pass Back violators' will be granted entry.              |
| ✓(yes)                        | Enable Class Checking     | ✓(yes) <input type="checkbox"/> (no)           | Door class (A,B,C) checking, on or off.                                |

**R001↓03,06 Keypad Selections**

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

|                                    |
|------------------------------------|
| 000 · 000 · 2 · 2 · 0 · 0 ·        |
| ↓Save                      R001↓03 |

| Default    | Name                        | Selections                                                                                          | Description                                                                                                                  |
|------------|-----------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>000</b> | Card Mode Schedule          | 00 = Use as In Schedule setting<br>01 – 250 (Schedule)                                              | Enter a schedule to allow cycling between different 'card' modes during the daytime, vs. after-hours.                        |
| <b>000</b> | Reader Mode Schedule        | 00 = Use as In Schedule setting<br>01 – 250 (Schedule)                                              | Enter a schedule to allow cycling between different reader modes during the daytime, compared with after-hours.              |
| <b>2</b>   | 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. |
| <b>2</b>   | 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'                                                                                              |
| <b>0</b>   | 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).                 |
| <b>0</b>   | 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↓03            |

| Default   | Name                              | Selections                                                                                                      | Description                                                                                                                                                                                                                                             |
|-----------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>04</b> | Unlock Time                       | 00-31 (Delay Table)<br>04 = 5 Sec                                                                               | The unlock duration when a user is granted entry.                                                                                                                                                                                                       |
| <b>06</b> | Challenged Unlock Time            | 00-31 (Delay Table)<br>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 <b>U001↓02</b> (User Name and Basic Settings) |
| <b>0</b>  | Door Alarm Monitoring             | 0=None<br>1=Door Held Open Processing, 2=Door Forced processing,<br>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 <b>R001↓11</b>                                                                                        |
| □ (no)    | Log RTE                           | ✓ (yes) □ (no)                                                                                                  | Whether 'RTE presses' are to be recorded.                                                                                                                                                                                                               |
| □ (no)    | Turn Style                        | ✓ (yes) □ (no)                                                                                                  | Escort can use card 2 <sup>nd</sup> 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 1 <sup>st</sup> 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                                                                                                                                                                                                                                                                                   |
|-------------------------------|--------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>06</b>                     | Door Held Open Time            | 00-31 (Delay Table)<br>06 =15 Sec                                                | How long the door can be held open after access is granted without causing an alarm.                                                                                                                                                                                                          |
| <b>10</b>                     | Challenged Door Held Open Time | 00-31 (Delay Table)<br>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 <b>U001↓02</b> ("Physically Challenged" Setting). |
| <b>14</b>                     | Auxiliary Relay Output Time    | 00-31 (Delay Table)<br>14=5Mins                                                  | How long the door can be held open after access is granted without causing an alarm.                                                                                                                                                                                                          |
| <b>0</b>                      | Auxiliary Input Mode           | 0=None, 1=Mag Lock Bond Sense,<br>2=Challenged RTE,<br>3= (future) Panel Control | This specifies how the auxiliary input on this door-controller module is to be used.                                                                                                                                                                                                          |
| <b>0</b>                      | Auxiliary Relay Output Mode    | 0=None, 1=Door Held Open / Door Forced **, 2=Door Opener *,<br>3=future          | Operation of the alarm relay on the door-controller module                                                                                                                                                                                                                                    |
| <input type="checkbox"/> (no) | Reader Tamper Required         | ✓(yes) <input type="checkbox"/> (no)                                             | Whether or not this reader tamper input is to be monitored.                                                                                                                                                                                                                                   |
| <input type="checkbox"/> (no) | Reader tamper as Panel Input   | ✓(yes) <input type="checkbox"/> (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                                                   |
|-------------------------------|------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------|
| <b>00</b>                     | Door Forced / Held Time            | 00-31, Global Delay Table                                   |                                                               |
| <b>0</b>                      | Door Circuit                       | 0=NC<br>1=NC/EOL<br>2=NO/EOL & Form-C SEOL<br>3=Form-C DEOL | The type of circuit/wiring being used with the door contact.  |
| <b>0</b>                      | RTE Circuit (request to exit)      | 0=NC<br>1=NC/EOL<br>2=NO/EOL & Form-C SEOL<br>3=Form-C DEOL | The type of circuit/wiring being used with the RTE input.     |
| <b>0</b>                      | Reader Tamper Circuit              | 0=NC<br>1=NC/EOL<br>2=NO/EOL & Form-C SEOL<br>3=Form-C DEOL | The type of circuit/wiring being used with the reader tamper. |
| <b>0</b>                      | Auxiliary Circuit                  | 0=NC<br>1=NC/EOL<br>2=NO/EOL & Form-C SEOL<br>3=Form-C DEOL | The type of circuit/wiring being used with the aux. input.    |
| <input type="checkbox"/> (no) | Do Not Lock on Door Closure        | ✓(yes) <input type="checkbox"/> (no)                        |                                                               |
| <input type="checkbox"/> (no) | Insertion Reader                   | ✓(yes) <input type="checkbox"/> (no)                        |                                                               |
| <input type="checkbox"/> (no) | Force Door Buzzer stops on Closure | ✓(yes) <input type="checkbox"/> (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                                                                                                                                                                    |
|-------------------------------|---------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>000</b>                    | Unlock Mode Schedule      | 000 = Treat as In Window setting<br>001 – 050 (Schedule)               | Enter a schedule for automated door unlocking.                                                                                                                                 |
| <b>0</b>                      | 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).                                                                                                                  |
| <b>0</b>                      | 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.)                                                                                                                        |
| <b>1</b>                      | Arming Level              | 0=Not legal, 1= Stay/On 2= Future 3= On only                           | Select the area arming levels for this door to be monitored.                                                                                                                   |
| <b>2</b>                      | Token Format              | 0=none, 1=future (dallas), 2=weigand<br>3=mag                          | This is the type of tokens and readers assoc. with this door.                                                                                                                  |
| <input type="checkbox"/> (no) | Detect Wandering Patient  | ✓ (yes) <input type="checkbox"/> (no)                                  | Enable wandering patient(s) detection.                                                                                                                                         |
| <input type="checkbox"/> (no) | Lock On Wandering Patient | ✓ (yes) <input type="checkbox"/> (no)                                  | This allows having the door lock when a wandering patient is detected.                                                                                                         |
| <input type="checkbox"/> (no) | In/Out Station            | ✓ (yes) <input type="checkbox"/> (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                                                                                         |
|-------------------------------|--------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> (no) | Interlock Required | ✓ (yes) <input type="checkbox"/> (no)                 | A second interlock door can not be opened until the interlock door that was first opened is closed. |
| <b>00</b>                     | Interlocked Door 1 | 2 Digits 00 – 32 00 - No interlock 1-32 (Door Number) |                                                                                                     |
| <b>00</b>                     | Interlocked Door 2 | 2 Digits 00 – 32 00 - No interlock 1-32 (Door Number) |                                                                                                     |
| <b>00</b>                     | Interlocked Door 3 | 2 Digits 00 – 32 00 - No interlock 1-32 (Door Number) |                                                                                                     |
| <b>06</b>                     | 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 |
|-------------------------------|------------------------------------|---------------------------------------|-------------|
| <input type="checkbox"/> (no) | Held Open Processing Transmit Off  | ✓ (yes) <input type="checkbox"/> (no) |             |
| <input type="checkbox"/> (no) | Held Open Processing Transmit Stay | ✓ (yes) <input type="checkbox"/> (no) |             |
| <input type="checkbox"/> (no) | Held Open Processing Transmit On   | ✓ (yes) <input type="checkbox"/> (no) |             |
| <input type="checkbox"/> (no) | Held Open Processing Siren Off     | ✓ (yes) <input type="checkbox"/> (no) |             |
| <input type="checkbox"/> (no) | Held Open Processing Siren Stay    | ✓ (yes) <input type="checkbox"/> (no) |             |
| <input type="checkbox"/> (no) | Held Open Processing Siren On      | ✓ (yes) <input type="checkbox"/> (no) |             |
| ✓ (yes)                       | Held Open Processing Alert Off     | ✓ (yes) <input type="checkbox"/> (no) |             |
| ✓ (yes)                       | Held Open Processing Alert Stay    | ✓ (yes) <input type="checkbox"/> (no) |             |
| ✓ (yes)                       | Held Open Processing Alert On      | ✓ (yes) <input type="checkbox"/> (no) |             |

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

↓ Save

R001↓13

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

56

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.

## **2001 - 2003 (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.

# 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:

|             |                                                                                                                                        |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>N</b>    | This indicates a "new event".                                                                                                          |
| <b>Ri</b>   | This indicates "area" (i.e., the next number is an area reference).                                                                    |
| <b>SSSS</b> | This is the area number/ID.                                                                                                            |
| <b>XX</b>   | This is a two-character SIA alarm code (refer to the SIA message list).                                                                |
| <b>PPP</b>  | 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:

|             |                                                                                                                                            |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CCCC</b> | The account number                                                                                                                         |
| <b>Q</b>    | 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). |
| <b>EEE</b>  | This is a three character CID alarm code (refer to the Contact-ID message list).                                                           |
| <b>GG</b>   | This is the "area" number/ID.                                                                                                              |
| <b>ZZZ</b>  | 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 AFx systems** and **501 through 532 for Chubb AFx 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                                                                       | E421       | 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 (schedules)                                   | Emergency |
| NL                                                                       | R408       | Turn Area to Stay (Normal)                                   | Full      |
| NR +                                                                     | R457       | Unauthorized Stay (schedules)                                | 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 AFx and "299" for Chubb AFx |            | 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 AFx and "299" for Chubb AFx |            | 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 AFx and "299" for Chubb AFx |            | Global Lockout Alarm caused by invalid card/PIN use in Area. | 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), <b>or</b> ;              | Emergency |
|                                                                          | RO   | Misc Trouble (E015)                                                    | Emergency |
| E356                                                                     | UX1  | Security IP Comms Failure (Messages Lost, Sync Lost, Reset)            | Emergency |
| E380                                                                     | FT   | Fire Class A--Tamper, <b>or</b> ;                                      | Emergency |
|                                                                          | FT   | Fire--Tamper, <b>or</b> ;                                              | Emergency |
|                                                                          | PT   | Holdup--Tamper, <b>or</b> ;                                            | Emergency |
|                                                                          | MT   | Aux. Alert--Tamper, <b>or</b> ;                                        | Emergency |
|                                                                          | QT   | Vault/Safe--Tamper, <b>or</b> ;                                        | Emergency |
|                                                                          | UT   | Misc/No Type--Tamper, <b>or</b> ;                                      | Emergency |
|                                                                          | RB   | Module Program Changed (E013), <b>or</b> ;                             | 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      |
| E421                                                                     | HA   | Duress Pin                                                             | Emergency |
| 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 AFx and "299" for Chubb AFx |      | 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 (schedules)                                             | 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 (schedules)                                          | Emergency |

# European and ACPO Installations

## Restoring Tamperers

Once a tamper condition occurs it will be logged within the system's history log. Tamperers 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:01, 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 announce 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 unit 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:

- The main panel cabinet must be opened to activate the ‘tamper sensor’
- The system will generate a tamper alarm; this must be first silenced by the authorized user.
- Next, the Service user ID and Pin must be entered followed by the ID and Pin of the authorized user.
- Select “Reset Confirmed Alarm”.
- 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.

# Index

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

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