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1.0**INPUTS:**

- All inputs:** Are 10K end of line monitored, with a response time of 300 ms.
Alarm triggers SIREN, STROBE and REPORTING. (depending on setup)
- Inputs 1-48:** These inputs may be partitioned into one of the six areas.
For more on partitioning see description of Partitioning below.
May be programmed to have EXIT and ENTRY or EXIT and HANDOVER delays,
and may be programmed for 24 HOUR, SILENT or DAY SILENT operation.
- Fridge:** Section 8 may be programmed as a Fridge alarm (Timed 24 hour). See Function 48.
- Auxin 1-4:** Not used in current revision.
- 16-18VAC:** These terminals are for connection to a 16 - 18 vac 1.5 amp transformer (plug pack)
- Partitioning:** The 1- 48 inputs may be grouped into six areas. Each Area may be armed and disarmed independently. Each Area uses an independent entry/exit timer.
Due to noise restriction laws, the siren timer is controlled by all areas, such that the siren will sound for the preprogrammed time when a non silent section is alarmed. While the siren timer is running any new section alarms are ignored and do not cause the siren time to increase. Any user code may be used to turn the sirens off.
To enter program or test modes, all areas must be in the off mode.

2.0**OUTPUTS:**

- Relay1:** This relay output is activated when any of the preprogrammed sections (Function 81) are in the alarm condition.
- Relay2:** This relay output is activated when any of the preprogrammed sections (Function 82) are in the alarm condition.
- Relay3:** This relay output is activated when any of the preprogrammed sections (Function 83) are in the alarm condition.
- Relay4:** This relay output is activated when any of the preprogrammed sections (Function 84) are in the alarm condition.
- OP1:** This Open Collector output is activated when any of the preprogrammed areas (Function 85) are in the ON mode.
- OP2:** This Open Collector output is activated when any of the preprogrammed areas (Function 86) are in the ON mode.
- Tx2:** RS-232 printer output. Communications parameters are programmed with option 94.
- 0V:** Printer signal ground.
- Aux 1 and Aux 2:** These 12vdc outputs are for detectors, etc. The outputs are via the INTERNAL fuse. Between 200 - 500mA can be delivered to load depending on siren, strobe. The onboard regulation is rated at 1.5amps and of this, the battery can take upto 200mA depending on the state of charge. One strobe requires 250mA and each speaker 200mA. The panel itself in alarm with one arming station connected draws 150mA approx.
- Batt:** This output is connected to the onboard regulator via a resistor which limits the charge current. Charging voltage is 13.7v.
- +Int:** This terminal is +12V fused via the INTERNAL fuse.
- +Ext:** This terminal is +12V fused via the EXTERNAL fuse.
- Int Sir:** Timed output to drive 1 x 8 ohm speaker rated at 10 watts, fused via INTERNAL fuse.
- Int Bell:** Timed output to drive DC screamers, fused via INTERNAL fuse.
- Ext Stb:** 12vdc untimed output to drive 12vdc strobe, fused via EXTERNAL fuse.
- Ext Sir:** Timed output to drive 1 x 8ohm speaker rated at 10 watts, fused via EXTERNAL fuse.
- Telecom** This is where the Telecom lead, which is supplied with the unit is connected.
- Line socket:** The Telecom lead uses pins 2 & 6 of the Telecom socket for the incoming line and pins 1 & 5 connect to the telephone in a MODE 3 arrangement.

Telecom approval No. A89-12-0083

High Integrity Comms Earth This terminal connects to a dual GAS ARRESTOR. This device is the same as used by Telecom in exchanges and main frames to protect against lightning induced voltages. If this terminal is connected to an earth rod or cold water pipe, the tolerance to high voltage or lightning induced transients is greatly increased. The Telecom input normally has a high tolerance to transients but with this terminal connected the tolerance is even greater.
Use a heavy conductor for this purpose 40/020 or similar.

System1: These 4 terminals connect to the REMOTE COMMAND CENTRES (keypads) that display the sections 1 - 24.

System2: These 4 terminals connect to the REMOTE COMMAND CENTRES (keypads) that display the sections 25 - 48.

The terminal marked + connects to the terminal marked + on the command centre
The terminal marked **CLK** connects to the one marked **C** on the command centre
The terminal marked **DATA** connects to the one marked **D** on the command centre
The terminal marked - connects to the terminal marked - on the command centre

3.0

LEDs on the PCB.

Scan: This green led near the keypad screw terminals indicates that the micro-processor is operating and must always be flickering.

Siren: This red led is near the fuses and indicates when the siren is running.

Bell: This red led is near the fuses and indicates when the bell output is on.

Comms: This red led is near the Line Sieze relay and indicates when the Dialler is on line.

Serial Rx: This yellow led is near the Rx2 screw terminal and will flicker when rs232 data is being received on the Rx2 screw terminal.

Serial Tx: This red led is near the Tx2 screw terminal and will flicker when the panel is transmitting rs232 data on the Tx2 screw terminal.

Carrier Detect:
This greed led is near the telecom transformer an is on when the onboard modem is detecting a carrier.

Modem Rx: This yellow led is near the telecom transformer and flickers then the modem is receiving serial data.

Modem Tx: This red led is near the telecom transformer and flickers when the panel is transmitting data to the onboard modem.

4.0

Initialization

To initialize the panel to factory defaults enter program mode and **Enter Function 90 and press the Code Key** or power the panel up with any button pressed on the keyboard for 3 seconds. While the panel is defaulting the area leds will scan from left to right.

5.0

On Power up

On power up the unit performs an internal self test of EEPROM. If the EEPROM is found to have been corrupted in some way or does not match the revision of software then the factory defaults will be reloaded. On power up the unit starts off in OFF mode and the sirens may operate for half a second.

6.0

Dialling Sequence

The dialling sequence from start to finish consists of 6 dialling attempts. 3 dialling attempts to the first phone number (with a 20 second pause between attempts to wait for handshake). If after the 3 attempts no handshake is received then the dialler will release the line for 5 minutes. After which, 3 attempts will be made to the second phone number (if no second number has been programmed then the first number will be tried again). If after these 3 attempts handshake is still not received the dialler will give up until another condition causes it to dial, at which time the previous condition will also be reported.

7.0

Control Panel Functions List

Function Number	Function	Number of Digits	Defaults
00	Master Code holder	6	218572
01	User code 1 (Areas: All) +	4	1111
02	User code 2 (Areas: All) +	4	Nil
03	User code 3 (Areas: All) +	4	Nil
04	User code 4 (Areas: All)+	4	Nil
05	User code 5 (Areas: All)+	4	Nil
**	etc to User code 30		
31	Area 1 Sections	2	Sects.1 to 48
32	Area 2 Sections	2	Nil
33	Area 3 Sections	2	Nil
34	Area 4 Sections	2	Nil
35	Area 5 Sections	2	Nil
36	Area 6 Sections	2	Nil
40	Exit time	1	60 secs
41	Entry time	1	60 secs
42	Siren time	1	10 min
44	Manual Deisolate of 24 hour sections	1	Enabled
47	Panic silent or audible (Not Currently Used)	1	Audible
48	Fridge Alarm Delay (Section 24) ++	1	Disabled
49	Exit and Entry sections	2	Nil
50	Exit and handover sections	2	Nil
52	24 hour inputs	2	Nil
53	Number of 16 I/P Expander connected	1	Nil
54	Disable sirens on first keypress	1	No
55	Silent sections	2	Nil
56	Day Silent Sections +++	2	Nil
81	Relay 1 Sections	2	Nil
82	Relay 2 Sections	2	Nil
83	Relay 3 Sections	2	Nil
84	Relay 4 Sections	2	Nil
85	OP 1 Sections	2	Nil
86	OP 2 Sections	2	Nil

+ Area 7 is not a physical area but is used to limit the access to the test functions.
Area 8 is not a physical area but is used to enable the users ability to isolate sections.

++ When the Fridge Delay is enabled Section 8 becomes a Fridge Input.

+++ Day Mode is enabled when the area that the section is in is not armed.

8.0**Communications Functions.**

Function Number	Function	Number of Digits	Defaults
60	Account number	4	Nil
61	Day Locals +	2	Nil
62	DownLoading (Ring Back) Phone number	15 max	Nil
63	Area Open / Close reports ++	2	Areas 1 - 6
64	Phone Number one	15 max	Nil
65	Phone Number two	15 max	Nil
66	Dial method	1	Decadic
67	Transmission Format	1	Contact ID
68	Report Restorals ?	1	Yes
69	No of days between test reports	1	1
71	Report Isolates ?	1	Yes
72	Report User IDs ?	1	Yes
73	Time of test report	4	Disabled
74	Keyboard Duress	1	Disabled
75	Autoisolation	1	Disabled
76	Multi Break	2	Nil

9.0**Special Functions.**

90	Default to factory (see also Initialization)	0	N/A
94	Printer Baud Rate	1	9600,7,E,1
96	Print Event Log Now	1	On request
97	Time Set	4	HHMM
98	Date Set	6	DDMMYY
99	Technician Code	6	218067

+ Day Local Sections only generate local sirens, bells and strobes when in Day Mode (i.e. the area is disarmed).

++ Open / Close Reports can be enabled/disabled for each area. In addition to messages on each area, first to open, last to close messages are selected by Option 7.

10.1 Function 31 - Area 1 Sections*Default Sections 1-48*

Display and change which sections will operate as Area 1 inputs.

Key Sequence

2 1 8 0 6 7 Code

3 1

0 1

0 2

0 3

Code

Off

Operation

Enter Tech code(default 218067)

Select Function 31

(previously selected sections will flash)

Section 1 is an area 1 input

Section 2 is an area 1 input

Section 3 is an area 1 input

Store this selection

Exit program mode

10.2 Function 32 - Area 2 Sections*Default Section Nil*

Display and change which sections will operate as Area 2 inputs.

Key Sequence

2 1 8 0 6 7 Code

3 2

0 9

1 0

1 1

Code

Off

Operation

Enter Tech code(default 218067)

Select Function 32

(previously selected sections will flash)

Section 9 is an area 2 input

Section 10 is an area 2 input

Section 11 is an area 2 input

Store this selection

Exit program mode

10.3 Function 33 - Area 3 Sections*Default Sections Nil*

Display and change which sections will operate as Area 3 inputs.

Key Sequence

2 1 8 0 6 7 Code

3 3

1 7

1 8

1 9

Code

Off

Operation

Enter Tech code(default 218067)

Select Function 33

(previously selected sections will flash)

Section 17 is an area 3 input

Section 18 is an area 3 input

Section 19 is an area 3 input

Store this selection

Exit program mode

10.4 Function 34 - Area 4 Sections*Default Section Nil*

Display and change which sections will operate as Area 4 inputs.

Key Sequence

2 1 8 0 6 7 Code

3 4

1 7

1 8

1 9

Code

Off

Operation

Enter Tech code(default 218067)

Select Function 34

(previously selected sections will flash)

Section 17 is an area 4 input

Section 18 is an area 4 input

Section 19 is an area 4 input

Store this selection

Exit program mode

10.5**Function 35 - Area 5 Sections***Default Sections Nil*

Display and change which sections will operate as Area 5 inputs.

Key Sequence2 1 8 0 6 7 Code
3 5

0 1

0 2

0 3

Code

Off

Operation

Enter Tech code (default 218067)

Select Function 35

(previously selected sections will flash)

Section 1 is an area 5 input

Section 2 is an area 5 input

Section 3 is an area 5 input

Store this selection

Exit program mode

10.6**Function 36 - Area 6 Sections***Default Sections Nil*

Display and change which sections will operate as Area 6 inputs.

Key Sequence2 1 8 0 6 7 Code
3 6

0 9

1 0

1 1

Code

Off

Operation

Enter Tech code (default 218067)

Select Function 36

(previously selected sections will flash)

Section 9 is an area 6 input

Section 10 is an area 6 input

Section 11 is an area 6 input

Store this selection

Exit program mode

10.7**Function 40 - Exit Time***Default - 60 seconds***Options**

0 - 0 seconds

1 - 20 seconds

2 - 40 seconds

3 - 60 seconds

4 - 80 seconds

5 - 100 seconds

6 - 120 seconds

7 - 140 seconds

8 - 160 seconds

9 - 180 seconds

Key Sequence2 1 8 0 6 7 Code
4 0

5 Code

Off

Operation

Enter valid Technician code

Select function number 40

Select & store option number (example

shows option 5, i.e. 100 secs being selected).

Exit Program mode

10.8**Function 41 - Entry Time***Default - 60 seconds***Options**

0 - 0 seconds

1 - 20 seconds

2 - 40 seconds

3 - 60 seconds

4 - 80 seconds

5 - 100 seconds

6 - 120 seconds

7 - 140 seconds

8 - 160 seconds

9 - 180 seconds

Key Sequence2 1 8 0 6 7 Code
4 1

3 Code

Off

Operation

Enter valid Technician code

Select function number 41

Select & store option number (example

shows option 3, i.e. 60 secs being selected).

Exit Program mode

10.9	Function 42 - Siren Time	<i>Default - 10 minutes</i>																						
<p>Options</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">0 - 0 seconds</td> <td style="width: 25%;">3 - 40 seconds</td> <td style="width: 25%;">6 - 5 min</td> <td style="width: 25%;">9 - 42 min</td> </tr> <tr> <td>1 - 10 seconds</td> <td>4 - 80 seconds</td> <td>7 - 10 min</td> <td></td> </tr> <tr> <td>2 - 20 seconds</td> <td>5 - 2 min 40 sec</td> <td>8 - 21 min</td> <td></td> </tr> </table> <p>Notes: Siren time applies to internal, external and satellite sirens. Australian Standards AS 2201 limit siren to be triggered only once per section unless manually re-armed. Noise pollution regulations in most states limit siren time to 10 minutes.</p> <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">Key Sequence</th> <th style="text-align: left;">Operation</th> </tr> </thead> <tbody> <tr> <td>2 1 8 0 6 7 Code</td> <td>Enter valid Technician code</td> </tr> <tr> <td>4 2</td> <td>Select function number 42</td> </tr> <tr> <td>5 Code</td> <td>Select & store option number</td> </tr> <tr> <td>Off</td> <td>Exit Program mode</td> </tr> </tbody> </table>			0 - 0 seconds	3 - 40 seconds	6 - 5 min	9 - 42 min	1 - 10 seconds	4 - 80 seconds	7 - 10 min		2 - 20 seconds	5 - 2 min 40 sec	8 - 21 min		Key Sequence	Operation	2 1 8 0 6 7 Code	Enter valid Technician code	4 2	Select function number 42	5 Code	Select & store option number	Off	Exit Program mode
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4 2	Select function number 42																							
5 Code	Select & store option number																							
Off	Exit Program mode																							
10.10	Function 44 - Manual Deisolate of 24 hour sections <i>Default Enabled</i>																							
<p>Options</p> <p>1 - Enabled 24 hour sections will remain isolated when disarming. 0 - Disabled. 24 hour sections will automatically deisolate when disarming.</p> <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">Key Sequence</th> <th style="text-align: left;">Operation</th> </tr> </thead> <tbody> <tr> <td>2 1 8 0 6 7 Code</td> <td>Enter valid Technician code</td> </tr> <tr> <td>4 4</td> <td>Select function number 44</td> </tr> <tr> <td>1 Code</td> <td>Select & store option number</td> </tr> <tr> <td>Off</td> <td>Exit Program mode</td> </tr> </tbody> </table>			Key Sequence	Operation	2 1 8 0 6 7 Code	Enter valid Technician code	4 4	Select function number 44	1 Code	Select & store option number	Off	Exit Program mode												
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10.11	Function 47 - Silent or Audible - Panic	<i>Default - Panic audible</i>																						
<p>Option</p> <p>1 Audible Panic 0 Silent Panic (no strobe or siren)</p> <p>Note: This option is for the Panic input only and is not used in this current revision.</p> <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">Key Sequence</th> <th style="text-align: left;">Operation</th> </tr> </thead> <tbody> <tr> <td>2 1 8 0 6 7 Code</td> <td>Enter Tech code (default 218067)</td> </tr> <tr> <td>4 7</td> <td>Select Function 47</td> </tr> <tr> <td>0 Code</td> <td>Select option 0 or 1</td> </tr> <tr> <td></td> <td>Example shows option 0 selected which is silent panic</td> </tr> <tr> <td>Off</td> <td>Exit program mode</td> </tr> </tbody> </table>			Key Sequence	Operation	2 1 8 0 6 7 Code	Enter Tech code (default 218067)	4 7	Select Function 47	0 Code	Select option 0 or 1		Example shows option 0 selected which is silent panic	Off	Exit program mode										
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Off	Exit program mode																							
10.12	Function 48 - Fridge Alarm Delay.	<i>Default - Disabled</i>																						
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4 8	Select Function 48																							
2 Code	Select a delay of 30 minutes																							
Off	Exit program mode																							

10.13 **Function 49 - Exit and Entry Sections.** *Default sections Nil*

Display and change which sections will have exit / handover delay.

Key Sequence	Operation
2 1 8 0 6 7 Code	Enter Tech code (default 218067)
4 9	Select Function 49 (selected sections will flash)
0 2	Section 2 has exit / entry delay
0 8	Section 8 has exit / entry delay
Code	Store this selection
Off	Exit program mode

10.14 **Function 50 - Exit and Handover Sections.** *Default Sections Nil*

Display and change which sections will have exit / handover delay.

Key Sequence	Operation
2 1 8 0 6 7 Code	Enter Tech code (default 218067)
5 0	Select Function 50 (selected sections will flash)
0 2	Section 2 has exit / handover
0 8	Section 8 has exit / handover
Code	Store this selection
Off	Exit program mode

10.15 **Function 52 - Sections to operate in 24 Hour mode** *Default Nil*

Display and change which sections will operate as 24 hour inputs.

Key Sequence	Operation
2 1 8 0 6 7 Code	Enter Tech code (default 218067)
5 2	Select Function 52 (previously selected sections will flash)
0 6	Section 6 is a 24 hour input
0 7	Section 7 is a 24 hour input
2 3	Section 23 is a 24 hour input
2 4	Section 24 is a 24 hour input
Code	Store this selection
Off	Exit program mode

10.16 **Function 53 -Number of 16 Input Expanders** *Default - Nil*

Note: When expanders are fitted, a jumper on the expander configures the input numbering.

- i.e. Group 1 = Sections 9 - 24
- Group 2 = Sections 25 - 40
- Group 3 = Sections 41 - 48 (Only half the sections on the third expander are used)

Key Sequence	Operation
2 1 8 0 6 7 Code	Enter Tech code (default 218067)
5 3	Select Function 53
2 Code	Select 2 expanders fitted. (Sections 9-24 and 25-40) Example shows 2 selected
Off	Exit program mode

10.17 **Function 54 - Disable sirens on first keypress** *Default - Do not disable*

Option

- 1 Disable sirens on first keypress
- 0 Do not disable sirens

Note:

- If function enabled, Then if the sirens are operating when the first number in a code is entered, The sirens will be shut off for 10 seconds, After which they will turn on again.
- This only happens once during an Armed or Disarmed period.

10.18 **Function 55 - Silent Sections** *Default Sections Nil*

Display and change which sections will operate as silent sections. **i.e. No Siren and Strobe.**

Key Sequence

2 1 8 0 6 7 Code
5 5

0 6
0 7
2 3
2 4
Code
Off

Operation

Enter Tech code (default 218067)
Select Function 55
(previously selected sections will flash)
Section 6 is a silent input
Section 7 is a silent input
Section 23 is a silent input
Section 24 is a silent input
Store this selection
Exit program mode

10.19 **Function 56 - Day Silent Sections** *Default Sections Nil*

Display and change which sections will operate as silent sections in Day mode (when area 1 is disarmed). **i.e. Siren and Strobe.**

Key Sequence

2 1 8 0 6 7 Code
5 6

0 6
0 7
Code
Off

Operation

Enter Tech code (default 218067)
Select Function 56
(previously selected sections will flash)
Section 6 is a day silent input
Section 7 is a day silent input
Store this selection
Exit program mode

11.0**Selected option or Program Readback.**

Note: - For functions 31,32,33,34,35,36,49,50,52,55,56,61,76

- When the function number is entered the previously selected sections will flash. If at this point the **Code** button is depressed no changes will be made and the power led will be flashing again.
- To de-select a section re-enter that sections number, The section led will be off.

Whilst in **PROGRAM** mode, If an option is entered followed by the **TEST** key then that options setting will be read back using the leds on the programmer as follows.

LED	INDICATED DIGIT
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	0
16	Pause

If you wish to check Function 60, enter the Function number **60** followed by the **TEST** key.

(In this case option 60 is 0199)

(digit 0) **Section 10** led will light accompanied by a beep

(digit 1) **Section 1** led accompanied by a beep

(digit 9) **Section 9** led accompanied by a beep

(digit 9) **Section 9** led still lit

Then beep beep and the **POWER** led flashing again (Test completed ready for next function)

12.1**Function 60 - Account number***Default - none***Notes:**

- 4 Digits Limits 0000- 9999
- This function is used to enter the account number for transmission to the Central Station.
- The dialler will not dial if account number or phone number not programmed.
- When Option 67 is set to 3 then area 1 uses this Account Number , area 2 uses Account Number +1, area 3 uses Account Number +2, area 4 uses Account Number +3 etc.

Key Sequence

2 1 8 0 6 7 **Code**

6 0

6 6 6 6 **Code**

Off

Operation

Enter valid Technician code.

Select function 60

Enter Account number - example

Exit Program mode

12.2**Function 61 - Day Local Sections***Default Sections Nil*

Display and change which sections will operate as local sections in Day mode.

(Day Mode is when area 1 is disarmed). **i.e. No Alarm Reporting**

Key Sequence

2 1 8 0 6 7 **Code**

6 1

0 6

Code

Off

Operation

Enter Tech code (default 218067)

Select Function 61

(previously selected sections will flash)

Section 6 is a day local input

Store this selection

Exit program mode

12.3 Function 62 - Down Loading Phone number *Default - none*

Note: - The phone number may be up to 15 digits long Including pauses (1 sec pause = Partial key).

Key sequence

2 1 8 0 6 7 Code

6 2

047 Partial 218067

Code

Off

Operation

Enter valid Technician code.

Select function 62

Enter phone number 1, In this case 047 1 sec pause 218067

Store Entry

Exit Program mode

12.4 Function 63 - Open / Close reports. *Default - Areas 1 - 6*

Notes: Selects which areas will send open and close reports.

Option7 :- Area 7 is not a physical area but is used to select first to open last to close reporting.

Key Sequence

2 1 8 0 6 7 Code

6 3

0 5

Code

Off

Operation

Enter valid Technician code.

Select function 63 (previous selections will flash)

Area 5 will report open and close messages

Store entry

Exit Program mode

12.5 Function 64 - Phone number 1 *Default - none*

Note: - The phone number may be up to 15 digits long Including pauses (1 sec pause = Partial key).

Key sequence

2 1 8 0 6 7 Code

6 4

047 Partial 218067

Code

Off

Operation

Enter valid Technician code.

Select function 64

Enter phone number 1, In this case 047 1 sec pause 218067

Store Entry

Exit Program mode

12.6 Function 65 - Phone number 2 *Default - none*

Note: - The phone number may be up to 15 digits long including pauses (1 sec pause = Partial key).

Key sequence

2 1 8 0 6 7 Code

6 5

047218572

Code

Off

Operation

Enter valid Technician code.

Select function 65

Enter phone number 2

Store entry

Exit Program mode

12.7**Function 66 - Dialling method***Default - Decadic dialling (pulse)*

Selects to dial in DTMF or Decadic

Option

- 1** Dial in DTMF, (tone)
0 Dial in Decadic, (pulse)

Key Sequence**2 1 8 0 6 7 Code****6 6****1****Code****Off****Operation**

- Enter valid Technician code.
 Select function 66
 Dial in DTMF
 Store entry
 Exit Program mode

12.8**Function 67 - Transmission Format***Default - Contact ID***Option**

- 0** Dialling Disabled
1 Tape Dial
2 Dialling Disabled
3 Dialling Disabled
4 Contact ID Single Account Number
5 Direct Line Connection

2 1 8 0 6 7 Code**6 7****4****Code****Off**

- Enter valid Technician code.
 Select function
 Contact ID Format Selected
 Store entry
 Exit Program mode

12.9**Function 68 - Report restorals***Default - Report restorals*

The dialler will normally report when an input is restored to a non alarm condition.

Option

- 1** Report restorals
0 Do not report restorals

Key sequence**2 1 8 0 6 7 Code****6 8****0****Code****Off****Operation**

- Enter valid Technician code.
 Select function
 Don't report restorals
 Store entry
 Exit Program mode

12.10**Function 69 - Test reports***Default - 1 day*This function programs **the number of 24hr periods (days)** between test reports, programming a **0** gives no test reports.**Key sequence****2 1 8 0 6 7 Code****6 9****7****Code****Off****Operation**

- Enter valid Technician code.
 Select function
 Select period in days (1 - 9)
 Store entry In this case a test report is given once per week
 Exit Program mode

12.11**Function 71 - Report Isolated Sections***Default - Report isolates*

The control panel will normally report isolated sections.

Option

- 1 Report Isolated sections
- 0 Do not report Isolated sections

Key sequence

2 1 8 0 6 7 Code
7 1
1
Code
Off

Operation

Enter valid Technician code.
Select function
Report isolated sections
Store entry
Exit Program mode

12.12**Function 72 - Report user IDs***Default - User ID reports***Note:**

If enabled the control panel will report user IDs.

Option

- 1 Report user IDs
- 0 Do not report user IDs (Send as User 30 Only)

Key sequence

2 1 8 0 6 7 Code
7 2
1
Code
Off

Operation

Enter valid Technician code.
Select function 72
Report user IDs
Store entry
Exit Program mode

12.13**Function 73 - Time of Test Report***Default - 0000*

Note: This sets the time of day that a test report will be generated.

Format is HHMM where: - HH is hours in range 00 - 23, MM is minutes in range 00 -59
To disabled test reports select 0000.

Key sequences

2 1 8 0 6 7 Code
7 3
2 3 3 0
Code
Off

Operation

Enter valid Technician code.
Select Function
Test report started at 11.30pm.
Store entry
Exit Program mode

12.14**Function 74 - Keyboard Duress On / Off***Default - Duress Disabled***Note:**

Keyboard duress may be disabled to prevent accidental duress alarms from private residences.
Duress is achieved by adding 1 to the last digit eg. 1234 becomes 1235, 6789 becomes 6780.

Option

- 1 Duress reports enabled
- 0 Duress reports disabled

Key sequence

2 1 8 0 6 7 Code
7 4
1
Code
Off

Operation

Enter valid Technician code.
Select Function
Duress enabled
Store entry
Exit Program mode

12.15**Function 75 - AutoIsolation Enable***Default - Disabled*

If enabled, a section will become automatically isolated if the section is faulted when being armed.

Option

- 1 Enable autoisolations.
- 0 Disable autoisolations.

Key sequence

2 1 8 0 6 7 Code

7 5

1

Code

Off

Operation

Enter valid Technician code.

Select function

Enable autoisolation

Store entry

Exit Program mode

12.16**Function 76 - Multibreak Sections***Default Sections Nil*

Display and change which sections will report input condition changes when armed.

Note:

This option will not give multi triggering of sirens to a section but will give multi reporting.

The section led will latch on first alarm for that sections

Key sequence

2 1 8 0 6 7 Code

7 6

0 9

Off

Operation

Enter valid Technician code.

Select function 76

Select section 9 for multibreak.

Exit Program mode

12.17**Function 81 - Output 1 Relay 1 Sections***Default Sections Nil*

Display and change which sections that when in alarm will activate relay 1.

If any of the selected sections goes into alarm then Relay 1 is held active until the alarm condition has been cleared.

Key sequence

2 1 8 0 6 7 Code

8 1

0 9

Off

Operation

Enter valid Technician code.

Select function 81

Select section 9 for Relay 1 control.

Exit Program mode

12.18**Function 82 - Output 2 Relay 2 Sections***Default Sections Nil*

Display and change which sections that when in alarm will activate relay 2.

If any of the selected sections goes into alarm then Relay 1 is held active until the alarm condition has been cleared.

Key sequence

2 1 8 0 6 7 Code

8 2

1 0

Off

Operation

Enter valid Technician code.

Select function 82

Select section 10 for Relay 2 control.

Exit Program mode

12.19 **Function 83 - Output 3 Relay 3 Sections** *Default*

Sections Nil

Display and change which sections that when in alarm will activate relay 3.
If any of the selected sections goes into alarm then Relay 1 is held active until the alarm condition has been cleared.

Key sequence

2 1 8 0 6 7 Code
8 3
1 1
Off

Operation

Enter valid Technician code.
Select function 83
Select section 11 for Relay 3 control.
Exit Program mode

12.20 **Function 84 - Output 4 Relay 4 Sections** *Default Sections Nil*

Display and change which sections that when in alarm will activate relay 4.
If any of the selected sections goes into alarm then Relay 1 is held active until the alarm condition has been cleared.

Key sequence

2 1 8 0 6 7 Code
8 4
1 2
Off

Operation

Enter valid Technician code.
Select function 84
Select section 12 for Relay 4 control.
Exit Program mode

12.21 **Function 85 - Output 5 OP1 Areas** *Default - Nil*

Display and change which Areas that when in On mode will activate OP1 (an open collector output)..
If any of the selected Areas is armed then OP 1 is held active.

Key sequence

2 1 8 0 6 7 Code
8 5
0 1
Off

Operation

Enter valid Technician code.
Select function 85
Select Area 1 for OP1 control.
Exit Program mode

12.22 **Function 86 - Output 6 OP2 Areas** *Default - Nil*

Display and change which Areas that when in On Mode will activate OP2 (an open collector output).
If any of the selected Areas is armed then OP2 is held active.

Key sequence

2 1 8 0 6 7 Code
8 6
0 2
Off

Operation

Enter valid Technician code.
Select function 86
Select section 2 for OP2 control.
Exit Program mode

13.1**Function 90 - Default System Parameters****Notes:**

This option is used to default all system setup values and user numbers etc, back to known values. Or power up with a button held for 3 seconds.

NOTE: To Default Panel without Technician Code see Section 4.0 Initialisation

Key Sequence

2 1 8 0 6 7 Code
9 0 Code

Operation

Enter valid Tech code
Select Function 90 to reset all options to default values

13.2**Function 94 - Printer Baud Rate***Default - 9600 Baud,7,Even Parity***Options**

0 - 9600 Baud 8 data bits no parity
1 - 19.2 KBaud 8 data bits no parity
2 - 9600 Baud 7 data bits even parity

Operation

2 1 8 0 6 7 Code
9 4
1 Code
Off

Enter existing Tech code (default is 218067)
Select function 94
Set the Baud Rate to 19.2 KBaud.
Exit from Program mode

13.3**Function 96 - Print Event Log Now***Default - Print on request only*

This Function is used to control the printing of the events.

Options

1 Print events as they occur.
0 Print the events on request.

Operation

2 1 8 0 6 7 Code
9 6
0
Code
Off

Enter existing Tech code (default is 218067)
Select function 96
Select print on request only.
Exit from Program mode

13.4**Function 97 - Time Set***Default 0900*

This Function is used to set the Real Time Clock.

Format is HHMM where: - HH is hours in range 00 - 23,
MM is minutes in range 00 -59

Operation

2 1 8 0 6 7 Code
9 7
0 9 3 0 Code
Off

Enter existing Tech code (default is 218067)
Select function 97
Set the Real Time Clock to 9.30 am.
Exit from Program mode

13.6**Function 98 - Date Set***Default 010193*

This Function is used to set the date

Format is DDMMYY where:- DD is day in range 1 - 31

MM is month in range 1 -12

YY is year. (Note: YY is last two digits of year - 1993 = 93)

Operation

2 1 8 0 6 7 Code

Enter existing Tech code (default is 218067)

9 8

Select function 98

0 1 0 1 9 3 Code

Enter Date (example shows 1st January 1993)

Off

Exit from Program mode

13.7**Function 99 - Technician Code***Default - 218067 (six digits only)***Notes:**

The Technician code is used to set up all functions of the system.

Those setups are stored in non - volatile memory - (the setups are not lost during loss of power).

Enter Tech code only when system is in **OFF** mode.

NOTE: To Default Panel without Technician Code see Section 4.0 Initialisation

Key Sequence

2 1 8 0 6 7 Code

Operation

Enter existing Tech code (default is 218067)

9 9

Select function 99

6 5 6 5 6 5 Code

Enter new 6 - digit Technician code

(in this example code being entered is 656565)

Off

Exit from Program mode

14.1**Function 00 - Master Code***Default - 218572 (six digits only)***Notes:**

The Master code is used to enter and change the user codes only. (no system setups may be changed)

The Master code may be changed by either the Technician or by the holder of the existing

Master code. The Master Code can only be used when the system is in Off mode.

Key Sequence

2 1 8 0 6 7 Code

Operation

Enter existing Tech code (default is 218067)

0 0

Select function 00

1 2 3 4 5 6 Code

Enter new 6 - digit Master code

Off

Exit from Program mode

Notes:

- 30 User codes may be programmed into the panel, These user codes are programmed using Function numbers **01** to **30**, all are programmed in exactly the same manner.
- No two User Codes may be the same and no two codes can be within 2 digits of each other. eg. if one code is **1234** then the closest a code can be to it is **1236** or **1232**, or else an error beep will be heard.
- The User codes can be used to Arm, Disarm, Isolate Sections of preprogrammed areas.
- The User codes may be changed by either the Technician or by the holder of the existing Master code.
- Each user code can be programmed to allow control of selected areas.

Key Sequence

2 1 8 0 6 7 Code

0 1

1 2 3 4 Code

0 1

Partial

0 1

0 2

Code

Off

Operation

Enter existing Tech code (default is 218067)

Select function 01 (enabled areas will flash)

Enter new 4 - digit User code

(in this example code being entered is 1234)

Select function 01 (enabled areas will flash)

Enter area Selection mode

Select area 1 (Section led 1 will start to flash)

Select area 2 (Section led 2 will start to flash)

User code 1 can now control areas 1 and 2.

Exit area Selection mode

Exit from Program mode

Note:

- To delete a User Code from the system select the Function for that User Code, depress the **Isolate** button and then the **Code** button, that code has now been deleted.

Key Sequence

2 1 8 0 6 7 Code

0 4

Isolate Code

Off

Operation

Enter existing Tech code (default is 218067)

Select User Code 4

Select delete

Exit from Program mode

Other features

- **KEYBOARD DURESS** Keyboard Duress is sent by entering your normal 4 digit code but with the last digit incremented by 1.

If your code is “ **1234** “ then enter “ **1235** “, a duress is sent with no local alarm. A duress restore is sent when the next valid code is entered. If the last digit of your code is “ **0** “ then enter a “ **1** “. Or if a 9 enter a 0.

- **MAINS FAIL:** Mains fail is automatically detected and reported by the control dialler.

When mains fail is detected the power led on the Command Centre will start giving a single flash and will be beeping. the beeper will stop when any button is depressed. After mains has been off for more than **60 minutes** the dialler will send a mains fail alarm.

When mains is restored the led will go steady again and after **10 seconds** the dialler will trip and send a mains restoral.

- **LOW BATT:** Low battery is automatically detected and reported by the control dialler.

When low battery is detected the power led on the Command Centre will start giving a double flash. After the battery voltage has been low for **60 seconds** the dialler will send a low battery report.

When the battery voltage is restored to normal the led will go steady again and after **10 seconds** the dialler will send a low battery restoral.

Down Loading offers the alarm installer or service technician a method of programming this dialler via a computer. Several security measures ensure that only priveleged access is permitted to this feature of the dialler.

Computer Setup

To be able to Down Load to the dialler a computer with terminal software and a **300 Baud (v21) modem** is necessary. The communications parameters are **300 Baud, 8 data bits 1 stop bit and no parity**. The protocol between the dialler and computer is ascii based so no terminal emulation is necessary other than plain ascii. The modem should be setup to auto answer the phone line.

Dialler Setup

To enable down loading to the dialler the down loading phone number needs to be programmed into **function 62**.

Starting Down Load

Two methods are possible to start the down loading procedure. If the technician is on site then down loading may be started by using **function 83 in test mode**. If the technician is not on site then the dialler can be made to start the down loading procedure by calling the phone that the dialler is attached to **three times within 1 minute**. For each call the phone should be let **ring 3 times and then hung up**. After the third call, the dialler will start the down loading procedure.

DownLoad Call Progress

When the panel starts down loading mode it will call the programmed down loading number and if a modem answers the call, and carrier is detected, then the panel will start the logon procedure. If unsuccessful the dialler will make up to three attempts before aborting downloading.

Logging on to the Dialler

When prompted, the technician code must be sent from the computer to the dialler, and if the code is valid, access is permitted to the dialler. If no user code is entered within 1 minute then the dialler will hang up and try again.

Entering Commands

When the technician has logged onto the dialler, a "Command:" prompt will be sent to the computer indicating that the technician is in program mode. This command prompt will be given each time the dialler is expecting the first digit of a function. While down loading, operation is very similar to keypad programming in that each function is started with a 2 digit number. When the dialler has received these two digits it will send the function entered, and the information that currently exists for the function. Entry of the option required is then the same as normal program mode and if necessary, the dialler will send the currently selected information to the computer as a check of correct entry. This is used when programming section information where a selected section is toggled by entering a two digit number while in a function. Special keys can be selected as follows:-

Key pad key	Computer character
Off	F
On	N
Code	C
Test	T
Isolate	I
Partial	P

In addition to these keypad equivalents, there are special characters that perform extra functions and these are:

Character	Function
E	Send a print out of event history to computer. The technician will also be prompted for the starting page and number of pages to send.
L	Send a print out of all the current program settings .

To Abort Event History Printing

To end the event report prematurely press any key on the computer.

To End the Down Loading Session

To **exit down loading** enter the Offkey equivalent '**F**' at the 'command:' prompt. The technician will then be prompted to confirm the end of the down load session.

Sample Session

(Comments are in brackets and Non Bold)

**** 8 - 48 Section V25 Panel Revision 1.0 ****

```

Please Enter Technician Code: ++++++ (Entry of Technician code to logon)
Technician Logged On (Dialler confirms entry of Tech code)
Command:01 (Technician entered 01 - user code -1)
Function:01 (Dialler Confirms Function Number)
User Code 9999 Selected Areas: - - - - - (Current setting readback)
1234Code (Entry of new user code. Note-
'Code'
Command:01 is sent from the dialler when 'C' received)
Function:01 (user code 01 function selected)
User Code 1234 Selected Areas: - - - - - (Current settings readback)
Partial (Partial is sent by dialler when 'P' sent)
Function:01 Area Mode: Selected Areas: - - - - -
01 (Select area 1 for user code 01
priveledge)
Function:01 Area Mode: Selected Areas: 01 - - - - -
Code (End the partial mode for user
code 01)
Command:31 (Select function 31- Area 1 sections)
Function:31 (Dialler confirms function 31)
Selected Sections: (Current settings
readback)
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
22 (Deselect
section 22)
Function:31 (Still in function 31- Area 1 Sections)
Selected Sections: (Confirm selec-
tions)
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 -- 23 24
25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
23 (Deselect
section 23)
Function:31 (Still in function 31- Area 1 Sections)
Selected Sections: (Confirm selec-
tions)
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 -- -- 24
25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
Code (End func-
tion 31)

```

(Request for an event history print is started with an
'E') **Command:Event History** (Request a print out of the event history)
Enter Starting Page (01 - 27): 01 (Select the most recent page of events)
Enter Number of Pages (01 - 27): 01 (Select one page of events)
(There is a total of 52 events per page)

Hit Any Key To Abort Print ... (Any key will abort the print)

01/06/93 09:30 Event Log Report Acc 0000 Page 1 (start of event history)

=====
01/06/93 09:00 Panel was Reset
01/06/93 09:01 Panel Programming Local User 99
01/06/93 09:02 Panel Programming Remote User 99
01/06/93 09:05 Panel Test Mode 7 (Print Request)User 99
****** End Of Report ****** (End of event history)

(Request for a listing of current program settings with a
'L') **Command:List Program** (Confirmation of command)

Hit Any Key To Abort Print ... (Any key will abort the print)

Function 00 :218572
Function:01
User Code :9999 Selected Areas: - - - - -
Function:02
User Code :1111 Selected Areas: 01 02 03 04 05 06 07 08
Function:03
User Code :---- Selected Areas: 01 02 03 04 05 06 07 08 (user code 3 is blank)

.
. .
. .
Function:95 :0000
Function:96 :0
Function:97 :0931 (current time)
Function:98 :010693 (current date)
Function:99 :218067
****** End of Program Setups ****** (end of list)

Command:Off (Off is sent by dialler when 'F' sent)
Confirm Logoff by User (y/n) y (Confirm exit from down load with 'Y')
Down Load Aborted

Notes:

1. Not all the test functions listed below are available to normal or master code holders.
2. Maximum testing time is 10 minutes.
3. Areas 1, 2, 3 and 4 must be in the OFF mode before entering test mode.
4. Test mode may not be entered until all alarm messages have been transmitted.
5. Test Functions are:-

Test 1 - Walk test - Beeper operates and section light operates. This test enables the user to walk around and activate sensors and check correct operation of sensors.

Test 2 - Siren test - Siren sounds for 3 seconds.

Test 3 - Strobe test - Strobe operates until next key press.

Test 4 - All lights and beeper operate until next key press - used to check operation of lights and beeper.





Test 5 - Recall Last Alarm - last alarm flashes until next key press.

Test 7X - This test requires an additional digit to specify where in the event log to start a printed report of 3 pages of events. (1 is most recent and 9 is oldest). e.g. Test 71 generates a print (upto 3 pages long) of the most recent events.

Test 81 - Print all the current program settings to the printer port at the current printer port specications. (This test is not available to the normal user).

Test 83 - Start downloading. (This function is available to the normal user with test mode priveledges).

Test 9 - Start a Test Report on Dialler (if fitted) - sends a test report to the Central station. (Account number, and phone number must be programmed for this test to start.) Test mode is exited.

Key Sequence	Operation
	Example shows tech code used to enter test mode.
	Test 1 started - walk test
	Test 2 started - siren test
	Exit test mode.

Partitioned Control dialler

Ademco 4+2 Express reporting codes

Multiple Account Number Reporting (Function 67 = 3)

Input	Alarm HEX	Restore HEX	Isolate HEX	De-Isolate HEX
1	11	71	51	D1
2	12	72	52	D2
3	13	73	53	D3
4	14	74	54	D4
5	15	75	55	D5
6	16	76	56	D6
7	17	77	57	D7
8	19	79	59	D9
9	10	70	50	D0
10	1B	7B	5B	DB
11	1C	7C	5C	DC
12	1D	7D	5D	DD
13	1E	7E	5E	DE
14	1F	7F	5F	DF
15	22	82	62	E2
16	23	83	63	E3
17	24	84	64	E4
18	25	85	65	E5
19	26	86	66	E6
20	27	87	67	E7
21	28	88	68	E8
22	29	89	69	E9
23	20	80	60	E0
DURESS	2D	8D	6D	ED
24	2E	8E	6E	EE
PANIC	2F	8F	6F	EF
BATTERY	FB	FC		
MAINS	FD	FE		
TEST	FF			

USER No.	OPENING HEX	CLOSING HEX
1 or 16	B1	C1
2 or 17	B2	C2
3 or 18	B3	C3
4 or 19	B4	C4
5 or 20	B5	C5
6 or 21	B6	C6
7 or 22	B7	C7
8 or 23	B8	C8
9 or 24	B9	C9
10 or 25	B0	C0
11 or 26	BB	CB
12 or 27	BC	CC
13 or 28	BD	CD
14 or 29	BE	CE
15	BF	CF

NOTES: When Multiple Account Numbers are used (Function 67 = 3) all Openings and Closings are reported with the respective Account numbers.(i.e. Area 1 uses the programmed Account Number, Area 2 uses the Account Number +1, Area 3 uses the Account Number +2, Area 4 uses the Account Number +3 etc.

Partitioned Control Dialler Ademco Contact ID Reporting

Single Account Number Reporting (Function 67 = 4) Contact ID Format

SSSS 18 E TTT PP NNN

Where **SSSS** = Four Digit Account Number

18 = Unique Format Identifier
(Not Displayed or Printed)

E = Event
1 = New Event or Opening
3 = New Restore or Closing

TTT = Event Code
120 =Panic Alarm
121 =Duress Alarm
130 =Burglar Alarm
152 = Fridge Alarm
301 =AC Power Loss
302 =Low Battery
401 =Open/Close by User
570 =Zone Bypass
602 =Periodic Test Report

PP = Area or Partition Number

NNN = Section Number or User Number

Examples of Reporting **Note: Checksum is omitted for clarity**

1234 18 1 120 00 000	Panic Alarm
1234 18 1 121 00 005	Duress Alarm by user 5
1234 18 1 130 01 001	Section 1 alarm in area 1
1234 18 1 130 01 002	Section 2 alarm in area 1
1234 18 3 130 02 001	Section 1 restore in area 2
1234 18 1 152 00 008	Fridge alarm. (Section is set to 8)
1234 18 3 301 00 000	Ac Fail restore
1234 18 1 302 00 000	Low battery alarm
1234 18 3 401 03 002	Area 3 arming with user code 2
1234 18 1 401 00 001	First to open message with user code 1
1234 18 1 570 04 003	Section 3 new isolate in area 4
1234 18 1 602 00 000	Test Report

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