

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 to 24:	Are armed in ON mode and PARTIAL mode (depending on partial setup). May be programmed to have EXIT and ENTRY or EXIT and HANDOVER delays.
Tamper:	Is a 10k monitored input, armed 24 hours with no delay. Alarm triggers SIREN, STROBE and REPORTING. Indication by single flashing AUXILIARY led.
Panic:	Is a 10k monitored input, armed 24 hours with no delay Alarm triggers SIREN, STROBE and REPORTING <u>OR</u> optionally SILENT with no STROBE. Indication by dual flashing AUXILIARY led.
Fire:	Is a 10k monitored input, armed 24 hours. Alarm triggers SIREN and STROBE instantly. Alarm REPORTING occurs after 30 seconds, allowing client to reset if false alarm. Indication by flashing FIRE led for 30 seconds, then on steadily.
Keyswitch:	Is a momentary, 10k monitored input with 24 hour operation. Changes system from OFF to ON and vice versa (only if all sections are sealed).
16-18VAC:	These terminals are for connection to a 16 - 18 vac 1.5 amp transformer (plug pack)

OUTPUTS:

Aux 12V	This 12vdc is for detectors etc.The output is via the INTERNAL fuse. Between 200 and 500mA can be delivered to load depending on other loads, eg. siren, strobe. The onboard regulation is rated at 1.5amps and of this, the battery can take up to 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 sir:	Output to drive 1 x 8 ohm speaker rated at 10 watts, fused via INTERNAL fuse.
Int bell:	Output (timed) to drive DC screamers, fused via INTERNAL fuse.
Ext stb:	12vdc output to drive 12vdc strobe, fused via EXTERNAL fuse.
Ext sir:	Output to drive 1 x 8ohm speaker rated at 10 watts, fused via EXTERNAL fuse.
Phone Line socket	This is where the phone lead, which is supplied with the unit is connected. The lead uses pins 2 & 6 of the phone socket for the incoming line and pins 1 & 5 connect to the telephone in a MODE 3 arrangement. Austel approval No. A89-12-0083

High Integrity Comms Earth	<p>This terminal connects to a dual GAS ARRESTOR. This device is the same as used 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 phone line input normally has a high tolerance to transients but with this terminal connected the tolerance is even greater.</p> <p>Use a heavy conductor for this purpose 40/020 or similar.</p>
Remote Command	<p>These 4 terminals connect to the Keypads.</p> <p>The terminal marked + connects to the terminal marked + on the Keypad.</p> <p>The terminal marked C (clock) connects to the one marked C on the Keypad.</p> <p>The terminal marked D (data) connects to the one marked D on the Keypad.</p> <p>The terminal marked - connects to the terminal marked - on the Keypad.</p>
X2	<p>This ten pin connector is located on the left hand edge of the PCB above the sector 1 terminals, and is connected, via a ribbon cable, to the 16 SECTION EXPANDER.</p>

LEDs on the PCB.

	<p>On the pcb there are 4 green leds, these leds should always be lit to indicate normal operation.</p>
Internal	<p>This led indicates that the internal fuse is ok.</p>
External	<p>This led indicates that the external fuse is ok.</p>
Mains	<p>This led indicates that mains power is on.</p>
Scan	<p>This led indicates that the micro-processor is operating and must always be flickering.</p>
Expander	<p>If a 16 SECTION EXPANDER has been installed then the green led on it must be flickering.</p>
Siren	<p>In addition, there are 3 red leds that indicate :</p> <p>This led indicates when the siren is running</p>
Strobe	<p>This led indicates when the strobe light is ON.</p>
Comms	<p>This led indicates when the Dialler is dialling. If decadic dialling has been selected then the led will be seen to flicker as each digit is dialled.</p>

Initialisation

To initialise the panel to factory defaults enter program mode and use **Function 90** or power the panel up with any button pressed on the keyboard for 3 seconds.

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 then the factory defaults will be reloaded. On power up the unit starts off in OFF mode and the sirens operate for half a second.

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 recieved the dialler will give up until another condition causes it to dial, at which time the previous condition will also be reported.

PROGRAM READBACK

With the full range of MCM products there are basically two methods of reading back information that has previously been programmed. The first method allows information that is serial in format to be read sequentially ie. phone numbers, while the second method allows all selections to be seen at once ie. sectors assigned as E/E. These are explained below.

SEQUENTIAL READBACK

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 "	" INDICATES DIGIT "
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
Partial	9
On	0
Auxiliary	Pause

Example

For this example Function 60 is already programmed as **0199**
If you wish to check Function 60

Enter the function number **60** followed by the **TEST** key.
(whilst in program mode)

ON LED will light accompanied by a beep	(digit 0)
Then number 1 LED accompanied by a beep	(digit 1)
Then PARTIAL LED accompanied by a beep	(digit 9)
Then another beep with PARTIAL LED still lit	(digit 9)
Then beep beep and the PROGRAM LED flashing again (test completed ready for next function).	

PARALLEL READBACK

For Functions 31 - 36, 49, 50, 51, 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 program LED will be flashing again.
- To de-select a section re-enter that section number and the section LED will extinguish.

Control Panel Functions			
Function number	Function	Defaults	Page No.
00	Master Code holder	218572	6
01	User code 1	1111	6
02-15	User code 2 to 15	Nil	6
40	Exit time	60 secs	7
41	Entry time	30 secs	7
42	Siren time	10 mins	7
43	Partial Mode Isolates	Nil	8
47	Panic silent or audible	Audible	8
49	Exit and Entry sections	Sections 1 & 2	8
50	Exit and handover sections	Nil	8
51	Partial Exit and Handover sections	Nil	9
52	24 hour inputs	Nil	9
53	16 I/P Expander connected ?	No	9
54	Disable sirens on first keypress	No	10
Communications Functions.			
60	Account number	Nil	10
63	Open / Close reports	Yes	10
64	Phone Number one	Nil	10
65	Phone Number two	Nil	11
66	Dial method	Decadic	11
67	Tape dial	No	11
68	Report Restorals ?	Yes	11
69	No of days between test reports	Nil	12
71	Report Isolates ?	No	12
72	Report User IDs ?	No	12
73	Delay till first test report	Nil	12
74	Duress on / off	Off	13
Special Functions.			
90	Default to factory	N/A	13
99	Technician Code	218067	13

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.

Key Sequence

2 1 8 0 6 7 Code
218067)

0 0

1 2 3 4 5 6 Code

123456)

Off

Operation

Enter existing Tech code (default is

Select function 00

Enter new 6 - digit Master code
(in this example code being entered is

Exit from Program mode

Function 01 - User Code 1 *Default - 1111 (four digits only)*

Notes:

- 15 User codes may be programmed into the panel. These user codes are programmed using function numbers **01** to **15**, all are programmed in exactly the same manner.
- No two User Codes may be the same and if **Keyboard Duress** has been enabled by **Function 74** then 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 are used to Arm, Disarm, Isolate Sections and Test the system only.
- The User codes may be changed by either the Technician or by the holder of the existing Master code.

Key Sequence

2 1 8 0 6 7 Code
218067)

0 1

1 2 3 4 Code

1234)

Off

Operation

Enter existing Tech code (default is

Select function 01

Enter new 4 - digit User code
(in this example code being entered is

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
218067)

0 4

Isolate

Code

Off

Operation

Enter existing Tech code (default is

Select User code 4

Select delete

End the sequence.

Exit from Program mode

Function 40 - Exit Time	<i>Default - 60 seconds</i>										
<p>Options</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">0 - 0 seconds</td> <td style="width: 50%;">5 - 50 seconds</td> </tr> <tr> <td>1 - 10 seconds</td> <td>6 - 60 seconds</td> </tr> <tr> <td>2 - 20 seconds</td> <td>7 - 70 seconds</td> </tr> <tr> <td>3 - 30 seconds</td> <td>8 - 80 seconds</td> </tr> <tr> <td>4 - 40 seconds</td> <td>9 - 90 seconds</td> </tr> </table>		0 - 0 seconds	5 - 50 seconds	1 - 10 seconds	6 - 60 seconds	2 - 20 seconds	7 - 70 seconds	3 - 30 seconds	8 - 80 seconds	4 - 40 seconds	9 - 90 seconds
0 - 0 seconds	5 - 50 seconds										
1 - 10 seconds	6 - 60 seconds										
2 - 20 seconds	7 - 70 seconds										
3 - 30 seconds	8 - 80 seconds										
4 - 40 seconds	9 - 90 seconds										
<p>Key Sequence 2 1 8 0 6 7 Code</p> <p>4 0 5 Code</p>	<p>Operation Enter valid Technician code</p> <p>Select function number 40 Select & store option number (example shows option 5, i.e. 50 secs being selected).</p>										
Off	Exit Program mode										
Function 41 - Entry Time	<i>Default - 30 seconds</i>										
<p>Options</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">0 - 0 seconds</td> <td style="width: 50%;">5 - 50 seconds</td> </tr> <tr> <td>1 - 10 seconds</td> <td>6 - 60 seconds</td> </tr> <tr> <td>2 - 20 seconds</td> <td>7 - 70 seconds</td> </tr> <tr> <td>3 - 30 seconds</td> <td>8 - 80 seconds</td> </tr> <tr> <td>4 - 40 seconds</td> <td>9 - 90 seconds</td> </tr> </table>		0 - 0 seconds	5 - 50 seconds	1 - 10 seconds	6 - 60 seconds	2 - 20 seconds	7 - 70 seconds	3 - 30 seconds	8 - 80 seconds	4 - 40 seconds	9 - 90 seconds
0 - 0 seconds	5 - 50 seconds										
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2 - 20 seconds	7 - 70 seconds										
3 - 30 seconds	8 - 80 seconds										
4 - 40 seconds	9 - 90 seconds										
<p>Key Sequence 2 1 8 0 6 7 Code</p> <p>4 1 3 Code</p>	<p>Operation Enter valid Technician code</p> <p>Select function number 41 Select & store option number (example shows option 3, i.e. 30 secs being selected).</p>										
Off	Exit Program mode										
Function 42 - Siren Time	<i>Default - 10 minutes</i>										
<p>Options</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">0 - 0 seconds</td> <td style="width: 50%;">5 - 2 min 40 sec</td> </tr> <tr> <td>1 - 10 seconds</td> <td>6 - 5 min</td> </tr> <tr> <td>2 - 20 seconds</td> <td>7 - 10 min</td> </tr> <tr> <td>3 - 40 seconds</td> <td>8 - 21 min</td> </tr> <tr> <td>4 - 80 seconds</td> <td>9 - 42 min</td> </tr> </table>		0 - 0 seconds	5 - 2 min 40 sec	1 - 10 seconds	6 - 5 min	2 - 20 seconds	7 - 10 min	3 - 40 seconds	8 - 21 min	4 - 80 seconds	9 - 42 min
0 - 0 seconds	5 - 2 min 40 sec										
1 - 10 seconds	6 - 5 min										
2 - 20 seconds	7 - 10 min										
3 - 40 seconds	8 - 21 min										
4 - 80 seconds	9 - 42 min										
<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>											
<p>Key Sequence 2 1 8 0 6 7 Code</p> <p>4 2 5 Code</p>	<p>Operation Enter valid Technician code</p> <p>Select function number 42 Select & store option number (example shows option 5, i.e. 2 mins 40 secs selected).</p>										
Off	Exit Program mode										

Function 43 - Partial Mode	<i>Default - No sections programmed to be isolated.</i>
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Note:

- Partial Mode sets up a pre - programmed list of sections which are isolated.
- Only Sections 1 - 8 or 1 -24 can be entered in Partial Mode

Key Sequence

2 1 8 0 6 7 Code
 218067)
 4 3
 0 1 Partial
 0 4 Partial
 Code
 Off

Operation

Enter valid Technician code (default is
 Select Function 43
 Section 1 entered
 Section 4 entered
 Store entry
 Exit program mode

Function 47 - Silent or Audible - Panic	<i>Default - Panic audible</i>
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Option

1 Audible Panic
 0 Silent Painc (no strobe or siren)

Key Sequence

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

Operation

Enter valid Technician code (default 210867)
 Select Function 47
 Select option 0 or 1
 Example shows option 0 selected
 which is silent panic
 Exit Tech mode

Function 49 - Exit and Entry Sections in ON Mode

Default - Sections 1 + 2 have exit / entry

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

Key Sequence

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

Operation

Enter valid Technician code (default 210867)
 Select Function 49
 (selected sections will flash)
 Section 1 has exit / entry
 Section 7 has exit / entry
 Store this selection
 Exit program mode

Function 50 - Exit and Handover Sections in ON Mode	<i>Default none</i>
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Display and change which sections will have exit / handover delay.

Key Sequence

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

Operation

Enter valid Technician code (default 210867)
 Select Function 50
 (selected sections will flash)
 Section 2 has exit / handover
 Section 8 has exit / handover
 Store this selection
 Exit program mode

Function 51 - Exit / Entry Sections in Partial mode *Default none*

Display and change which sections will have exit / entry delay in Partial mode.

Key Sequence	Operation
2 1 8 0 6 7 Code	Enter valid Technician code (default 210867)
5 1	Select Function 51 (previously selected sections will flash)
0 1	Section 1 has exit / entry, Sector 1 led will flash
0 2	Section 2 has exit / entry, Sector 2 led will flash
0 3	Section 3 has exit / entry, Sector 3 led will flash
0 4	Section 4 has exit / entry, Sector 4 led will flash
Code	Store this selection
Off	Exit program mode

Function 52 - Sections to operate in 24 Hour mode *Default none*

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

Key Sequence	Operation
2 1 8 0 6 7 Code	Enter valid Technician code (default 210867)
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

Function 53 - Enable 16 Input Expander *Default - Non expanded*

- Option**
- 1** Enable Expander Module
 - 0** Disable Expander Module

Key Sequence	Operation
2 1 8 0 6 7 Code	Enter valid Technician code.
5 3	Select function 53
1 Code	Select option 0 or 1 Example shows option 1 selected - expander
enabled	
Off	Exit Program mode

NOTE : The 16 input expander is designed to be used with various MCM control panels with different connection points.

CDX / CSX - The expansion cable from the panel is connected to X3 located toward the middle of the expansion board.

V25 - The expansion lead from the panel is connected to X2 located at the top of the expander board. A link must also be placed in one of the group selectors (X4) to indicate to the panel the expansion board address.

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 enabled the sirens, if operating, will silence for 10 secs when the first digit of a code is entered.
- This will only happen once during an Armed or Disarmed period.

Key Sequence

2 1 8 0 6 7 Code
5 4
1 Code
Off

Operation

Enter valid Technician code.
Select function 54
Select option (Example option 1 selected, disable sirens)
Exit Program mode

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.

Key Sequence

2 1 8 0 6 7 Code
6 0
6 6 6 6 Code
number 6666 entered
Off

Operation

Enter valid Technician code.
Select function 60
Enter Account number - example shows account
Exit Program mode

Function 63 - Open / Close reports - Yes / No. *Default - send open /close*

Notes:

Selects whether open / close reports are sent or not

Option

- 1 Open / Close sent
- 0 No Open / Close sent

Key Sequence

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

Operation

Enter valid Technician code.
Select function 63
Open / Close sent
Store entry
Exit Program mode

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 Isolate 218067
2180
Code
Off

Operation

Enter valid Technician code.
Select function 64
Enter phone number 1, in this case 047, 1 sec pause,
Store Entry
Exit Program mode

Function 65 - Phone number 2		<i>Default - none</i>
<p>Note:</p> <ul style="list-style-type: none"> - The phone number may be up to 15 digits long including pauses - 1 sec pause = Partial key 		
<p>Key sequence</p> <p>2 1 8 0 6 7 Code</p> <p>6 5</p> <p>047218572</p> <p>Code</p> <p>Off</p>	<p>Operation</p> <p>Enter valid Technician code.</p> <p>Select function 65</p> <p>Enter phone number 2, in this case 047218572</p> <p>Store entry</p> <p>Exit Program mode</p>	
Function 66 - Dialling method		<i>Default - Decadic dialling (pulse)</i>
<p>Selects to dial in DTMF or Decadic</p>		
<p>Option</p> <p>1 Dial in DTMF, (tone)</p> <p>0 Dial in Decadic, (pulse)</p>		
<p>Key Sequence</p> <p>2 1 8 0 6 7 Code</p> <p>6 6</p> <p>1</p> <p>Code</p> <p>Off</p>	<p>Operation</p> <p>Enter valid Technician code.</p> <p>Select function 66</p> <p>Dial in DTMF</p> <p>Store entry</p> <p>Exit Program mode</p>	
Function 67 - Tape dial		<i>Default - ADEMCO 4+2 format</i>
<p>When selected Tape Dial mode causes the dialler not to listen for acknowledge tone and start sending tones continuously until 30 second timeout or until a kiss-off tone. (In this mode a kiss-off tone can be a whistle). If the whistle is received on the first call it will not continue to dial.</p> <p>NOTE : In this mode no open/closing reports, isolates/deisolates or 24hr test message are sent.</p>		
<p>Option</p> <p>1 Tape Dial (No handshake to start message)</p> <p>0 ADEMCO 4+2 format. (See rear of manual for explanation.)</p>		
<p>Key sequence</p> <p>2 1 8 0 6 7 Code</p> <p>6 7</p> <p>1 Code</p> <p>Off</p>	<p>Operation</p> <p>Enter valid technician code</p> <p>Select function</p> <p>Tape Dial selected</p> <p>Exit program mode</p>	
Function 68 - Report restorals		<i>Default - Report restorals</i>
<p>The dialler will normally report when an input is restored to a non alarm condition.</p>		
<p>Option</p> <p>1 Report restorals</p> <p>0 Do not report restorals</p>		
<p>Key sequence</p> <p>2 1 8 0 6 7 Code</p> <p>6 8</p> <p>0</p> <p>Code</p> <p>Off</p>	<p>Operation</p> <p>Enter valid Technician code.</p> <p>Select function</p> <p>Don't report restorals</p> <p>Store entry</p> <p>Exit Program mode</p>	

Function 69 - Test reports		<i>Default - No test reports</i>
<p>This function programs the number of 24hr periods between test reports, programming a 0 gives no test reports.</p>		
<p>Key sequence 2 1 8 0 6 7 Code 6 9 7 Code week Off</p>	<p>Operation Enter valid Technician code. Select function Select period in days Store entry. In this case a test report is given once per week Exit Program mode</p>	
Function 71 - Report Isolated Sections		<i>Default - Isolate reports</i>
<p>The control panel will not normally report isolated sections If enabled the control panel will report isolated sections at the end of exit time.</p>		
<p>Option 1 Report isolated sections 0 Do not report isolated sections</p>		
<p>Key sequence 2 1 8 0 6 7 Code 7 1 1 Code Off</p>	<p>Operation Enter valid Technician code. Select function Report isolated sections Store entry Exit Program mode</p>	
Function 72 - Report user IDs		<i>Default - User ID reports</i>
<p>Note: If enabled the control panel will report user IDs at the end of exit time.</p>		
<p>Option 1 Report user IDs 0 Do not report user IDs</p>		
<p>Key sequence 2 1 8 0 6 7 Code 7 2 1 Code Off</p>	<p>Operation Enter valid Technician code. Select function Report user IDs Store entry Exit Program mode</p>	
Function 73 - Delay till First test report		<i>Default - 0</i>
<p>Note: This sets the delay from when program is exited till the dialler sends its first test report, in multiples of 4 hours.</p>		
<p>Key sequences 2 1 8 0 6 7 Code 7 3 2 Code Off</p>	<p>Operation Enter valid Technician code. Select function 8 hours till first test report Store entry Exit Program mode</p>	

Function 74 - Keyboard Duress On / Off

Default - Duress disabled

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

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.

Key Sequence

2 1 8 0 6 7 Code
9 0 Code
 values

Operation

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

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.

Key Sequence

2 1 8 0 6 7 Code
 218067)
9 9
6 5 6 5 6 5 Code
 656565)
Off

Operation

Enter existing Tech code (default is
 218067)
 Select function 99
 Enter new 6 - digit Technician code
 (in this example code being entered is
 656565)
 Exit from Program mode

Control Dialler Ademco 4+2 Express reposting codes

Input	Alarm	Restore	Isolate	De-isolate
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
Fire	21	81	61	E1
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
Tamper	2B	8B	6B	EB
23	20	80	60	E0
Duress	2D	8D	6D	ED
24	2E	8E	6E	EE
Panic	2F	8F	6F	EF
Battery	F1	F6	-	-
Mains	F2	F7	-	-
Test	FF	-	-	-

User ID will be reported as listed below

User No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Opening	B1	B2	B3	B4	B5	B6	B7	B8	B9	B0	BB	BC	BD	BE	BF
Closing	C1	C2	C3	C4	C5	C6	C7	C8	C9	C0	CB	CC	CD	CE	CF

Other features

- **KEYBOARD Panic** **Keyboard Panic** is achieved by pressing and holding both the OFF and ON keys together and holding for 2 secs. This is a local as well as a back to base alarm.
 - Keyboard Panic may be triggered and reported more than once, but only one restoral will be sent when a valid user code is next entered.

- **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 ".

- **24 HOUR** Inputs which are configured for 24 hour operation, when alarmed, will send a restoral when that input is resealed and a valid user code entered.

- **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 10 minutes the dialler will send a mains fail alarm.
 - When mains is restored the led will go steady again and after 30 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 batt is detected the power led on the Command Centre will start giving a double flash. After the battery voltage has been low for 30 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 30 seconds the dialler will send a low battery restoral.

 - If low battery occurs during the 30 second mains fail time, then it takes precedence over the mains fail.

CDX

8 and 24 sector control dialler

Version 1.9

Installation and programming manual

**Proudly Designed and Manufactured
In Australia by
MCM ELECTRONICS PTY. LTD.**



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