

MCM Electronics

The Icon Series

MCM Electronics

Installation and Programming Information

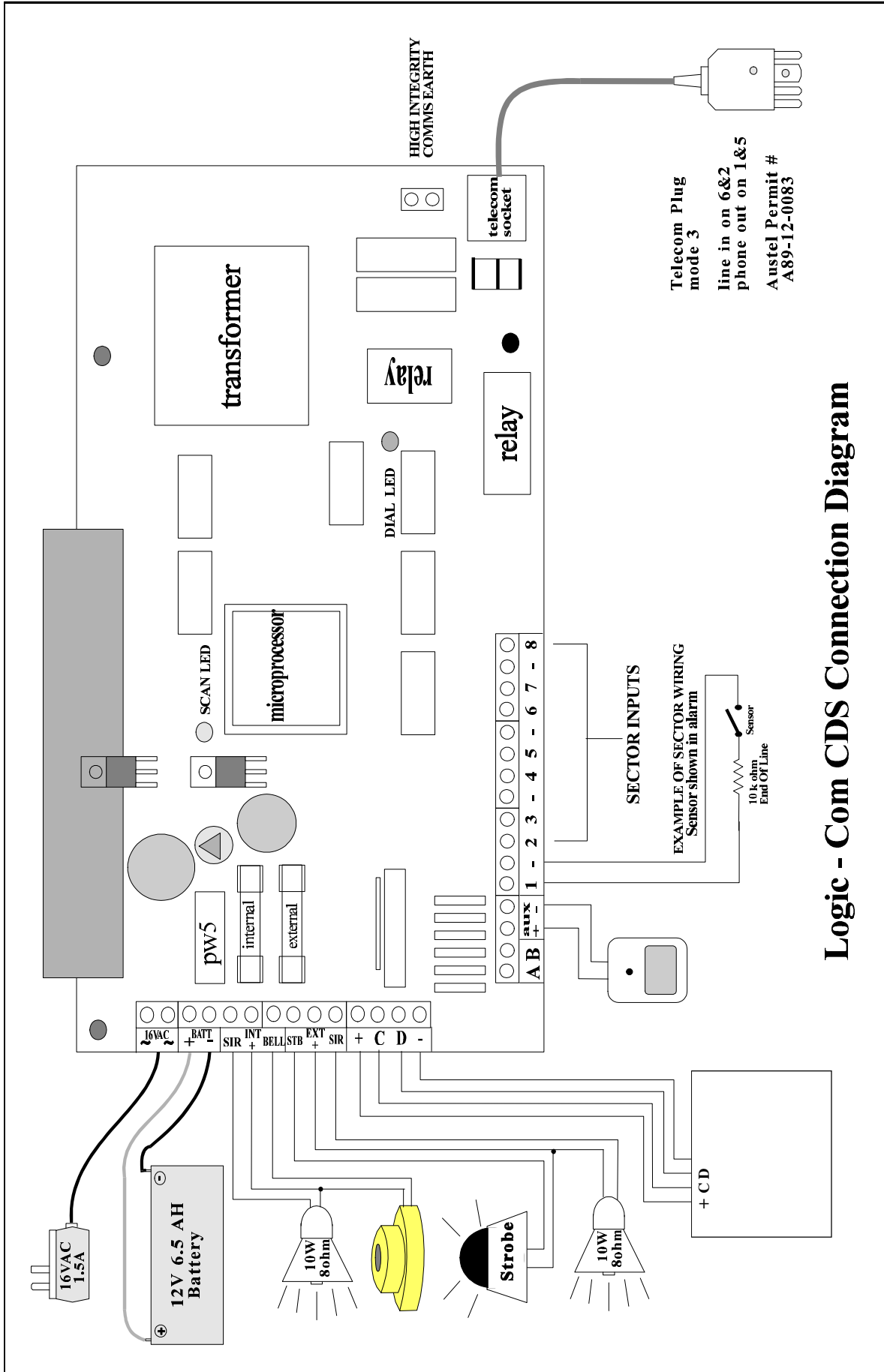
MCM Electronics

Icon 8 ***Version 5.0***

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Warning: This equipment must only be installed and serviced by suitably qualified personnel



Logic - Com CDS Connection Diagram

INPUTS:

- Inputs 1 to 8** Are 10K monitored inputs, with a response time of around 300 ms. Alarm triggers siren, strobe and dialler (depending on setup). Are armed in the on or partial mode (depending on partial setup). May be programmed to have exit / entry, exit / handover delays or may be programmed for 24 hour operation.
- 16 VAC** For the connection of a 16 vac 1.5 amp plug pack.

OUTPUTS:

- Aux 12V** This 12v dc 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 regulator is rated at 1.0 amp 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 on-board regulator via a resistor which limits the charge current. Charging voltage is 13.7v.
- Int sir **** Timed output to drive 2 x 8 ohm speaker rated at 10 watts, fused via the INTERNAL fuse. This may be replaced by the Bell 2 output on later models.
- Int bell or bell1** Output (timed) to DC screamers, fused via INTERNAL fuse. May also be programmed (via opt 91) as armed, 24 hr alarm, bell or to power to smoke detectors which latch and can be reset by test 6.
- Ext stb** 12v dc output to drive 12v dc strobe, fused via EXTERNAL fuse.
- Ext sir** Timed Output to drive 1 x 8 ohm speaker rated at 10 watts, fused via EXTERNAL fuse.
- Int bell2 ***** Output (timed) to drive DC screamers, fused via INTERNAL fuse. This bell2 output is not programmable, it is fixed as a bell output.
*** *Note this output will be only available on future models.*
- Telecom Line socket** This is connected to the Exchange line, via the Telecom lead which is supplied with the unit. 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.
AUSTEL Permit 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, it must be hard wired otherwise Austel Permit will be rendered Void.
- Remote Command** These 4 terminals connect to the REMOTE KEYPADS.
The terminal marked + connects to the + terminal on the keypad
The terminal marked C connects to the C on the keypads
The terminal marked D connects to the D on the keypads
The terminal marked - connects to the - on the keypads

Indicators on the PCB

Scan	This LED indicates that the micro-processor is operating and must always be flickering.
Dial	This LED, located adjacent to the dial relays, will light when the dialler is in its reporting sequence and will extinguish when reporting is completed.

1

Initialization

To initialize 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 its **EEPROM** and then boots with this program. If the **EEPROM** is found to have been corrupted in some way then the factory defaults will be reloaded indicated by 5 beeps from the keypad. If the **EEPROM** is correct then the panel will power up in the mode determined by **Function 98 (Status on power up)**.

If **Function 98** is 0 (Do not retain the On /Off status) the unit starts off in **OFF** mode and the sirens may operate for half a second.

If **Function 98** is 1 (Retain On/Off status) and the unit was armed when power was interrupted, then when power is restored, the unit will allow a settling time of **60** secs and attempt to re-arm. Sectors unsealed after the settling time will be automatically isolated and will be reported as such. After the **60** seconds settling time the unit will dial through a mains fail restore, a low battery restore and the current status of the panel with user code **31**.

Dialling sequence

The dialling sequence from start to finish consists of 6 dialling attempts. The first 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. The dialler will then make 3 attempts 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 hang up until another condition causes it to dial, at which time the previous condition will also be

PROGRAM READBACK

With the full range of panels 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 **6 0** 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 **On** 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.

ENTERING PROGRAM MODE

There are two codes that will allow access to the product range of panels for programming. The *technician code* that will allow access to all programmable functions and the *master user code* which allows access only to user code programming. Either code can **only** be used in the OFF mode and since the operation of both codes is similar, only the technician code will be discussed.

DEFAULTING THE PANEL

If the technician and master codes are not known the only way to enter program mode is to default the panel so the factory preset codes may be used. This is accomplished by removing power from the panel and then reapplying power with ANY key on the keypad pressed for three seconds. This will restore the factory technician and master codes which are 2 1 8 0 6 7 and 2 1 8 5 7 2 respectively and will be indicated by five beeps from the Keypad.

NOTE : Defaulting the panel will reset ALL functions to the factory presets.

ENTERING PROGRAM MODE

To enter the program mode the following sequence is entered :

2 1 8 0 6 7 - On (Enter technician code and press the On key)

At this point the program LED will begin flashing to indicate that you are in program mode and the required function number may be entered. If an error was made in entering the code or an incorrect code used, the keypad will give a long error beep after which you may try again. Assuming we are in program mode the following examples will show how functions are programmed or changed.

Example 1

To program or change the primary phone number (Function 64) to 02 - pause - 1234567. With the program LED flashing enter the following :

6 4 (Select Function 64. Program LED will light steady.)
0 2 (First two digits of phone number.)
partial (Pressing partial key = 1 second pause.)
1 2 3 4 5 6 7 (Remainder of phone number.)
On (Stores phone number. Program LED will flash.)

At this point the installer can either program further options or leave the program mode by pressing the 'off' key.

Example 2

Program sectors 1 and 8 to be entry/exit sectors (Function 49). With the programming LED again flashing enter the following :

4 9 (Select Function 49. Program LED will light steady.)
0 1 0 8 (Enter sectors 1 (01) and 8 (08) LEDs will flash.)
On (store information and exit function 49.)
Off (Exit program mode. Program LED will extinguish.)

Control Panel Functions			
Function Number	Function	Defaults	Page No.
00	Master Code	218572	20
01	User code 1	1111	20
02-30	User code 2 to User code 30	Nil	20
40	Exit time	60 secs	8
41	Entry time	30 secs	8
42	Siren time	10 min	8
43	Partial Mode isolates	Nil	9
47	Keypad Panic audible	Audible	9
49	Exit and Entry sections	Sections 1 + 2	9
50	Exit and Handover sections	Nil	10
51	Partial Exit / Handover sections	Nil	10
52	24 hour inputs	Nil	10
54	Disable sirens on first keypress	Enabled	10
55	Silent sections	Nil	11
Communications Functions			
60	Account number	Nil	11
62	Down - Load phone number	Nil	11
63	Open / Close reports	Enabled	12
64	Phone number one	Nil	12
65	Phone number two	Nil	12
66	Dial method	DTMF (tone)	12
67	Reporting format	Contact I.D.	13
68	Report restorals	Enabled	13
69	No. days between test reports	Nil	13
70	Checksum reporting	Enabled	14
71	Report isolates	Enabled	14
73	Delay till first test report	12 Hours	14
74	Keypad Duress On / Off	Disabled	15
75	Auto - Isolation	Disabled	15
76	Multi - break sectors	Nil	15
89	Single digit arming	Disabled	16
Special Functions			
90	Default to factory	N/A	16
91	Bell output type	Bell	16
92	Slave dialler	Control dialler	17
93	Keyswitch option	Disabled	17
94	Siren speed	Medium	17
95	Arming lockout	Disabled	18
96	Download configuration	Master/Tech Code	18
98	Rearm enable	Disabled	19
99	Technician code	218067	19

Function 40 - Exit Time

Default - 60 seconds

Description :

This function sets the time that sectors allocated as entry/exit (Function 49), exit handover (Function 50) or partial exit/entry (Function 51) will allow for exit.

Options - (Single digit entry required)

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

Example : While in program mode (Program LED flashing)

Key Sequence	Operation
40 -	Enter Function No.
5 -	Enter Option (5 = 50 seconds)
on -	Store Entry

Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number

Function 41 - Entry Time

Default - 30 seconds

Description :

This function sets the time that sectors allocated as entry/exit (Function 49), exit handover (Function 50) or partial exit/entry (Function 51) will allow for entry.

Options - (Single digit entry required)

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

Notes :

Handover sectors will only have entry time if an exit/entry sector has been triggered first

Example : While in program mode (Program LED flashing)

Key Sequence	Operation
41 -	Enter Function No.
3 -	Enter Option (3 = 30 seconds)
on -	Store Entry

Installer may now exit program mode by pressing the OFF button or continue programming.

Function 42 - Siren Time

Default - 10 minutes

Description :

This function sets the maximum time for which the internal, external and satellite sirens and bell output will operate.

Options - (Single digit entry required)

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

Notes:

Australian Standards AS 2201 limit the sirens to be triggered only once per section unless manually re-armed. Noise pollution regulations in most states limit siren time to 10 minutes.

Example : While in program mode (Program LED flashing)

Key Sequence	Operation
42 -	Enter Function No.
6 -	Enter Option (6 = 5 minutes)
on -	Store Entry

Installer may now exit program mode by pressing the OFF button or continue programming

Function 43 - Partial Mode

Default - No sections programmed.

Description :

Partial mode sets up a preprogrammed list of sections which are automatically isolated when the unit is turned on using the partial key.

Options : (Two digit entry required per sector)

Any sector or combination of sectors from 1 to 8

Example : While in program mode (Program LED flashing)

Key Sequence		Operation
51	-	Enter Function No.
050708	-	Enter Options (Sectors 5, 7 & 8 will be isolated)
On	-	Store Entry

Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number

Function 47 - Keypad Panic Audible

Default - audible

Description :

This function determines whether the keypad panic activation (holding the ON and the OFF keys depressed at the same time for 3 seconds) will cause the sirens to sound in addition to reporting to the monitoring company or only report.

Options : (Single digit entry required)

0 = Silent Keypad Panic (report only)

1 = Sirens and report.

Example : While in program mode (Program LED flashing)

Key Sequence		Operation
47	-	Enter Function No.
0	-	Enter Option (Keypad Panic now silent)
On	-	Store Entry

Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number

Function 49 - Exit/Entry Sections in ON Mode

Default - Sectors 1 & 2

Description :

This function allows the display and or changing of those sections which will have the exit/entry delays defined in Functions 40 and 41.

Options : (Two digit entry required per sector)

Any sector or combination of sectors from 1 to 8

Example : While in program mode (Program LED flashing)

Key Sequence		Operation
49	-	Enter Function No.
0208	-	Enter Option (Sector 2 is removed and section 8 is added)
On	-	Store Entry

Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.

Function 50 - Exit and Handover Sections in ON Mode <i>Default - none</i>													
<p>Description : Display and / or change which sections will have exit / handover delay.</p>	<p>Options : (Two digit entry required per sector) Any sector or combination of sectors from 1 to 8</p>												
<p>Notes : Sectors selected will only have entry time if an exit/entry sector is triggered first.</p>													
<p>Example : While in program mode (Program LED flashing)</p> <table border="0"> <thead> <tr> <th>Key Sequence</th> <th></th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>50</td> <td>-</td> <td>Enter Function No.</td> </tr> <tr> <td>02</td> <td>-</td> <td>Enter Option (Sector 2 becomes handover)</td> </tr> <tr> <td>On</td> <td>-</td> <td>Store Entry</td> </tr> </tbody> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>		Key Sequence		Operation	50	-	Enter Function No.	02	-	Enter Option (Sector 2 becomes handover)	On	-	Store Entry
Key Sequence		Operation											
50	-	Enter Function No.											
02	-	Enter Option (Sector 2 becomes handover)											
On	-	Store Entry											
Function 51 - Exit / Entry Sections in Partial mode <i>Default none</i>													
<p>Description : Display and change which sections will have exit / entry delay in Partial mode.</p>	<p>Options : (Two digit entry required per sector) Any sector or combination of sectors from 1 to 8</p>												
<p>Notes : Sectors programmed in this function are independent of sectors programmed as ON mode exit / entry sectors and only have exit / entry times assigned to them when the panel is turned ON using the Partial key.</p>													
<p>Example : While in program mode (Program LED flashing)</p> <table border="0"> <thead> <tr> <th>Key Sequence</th> <th></th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>51</td> <td>-</td> <td>Enter Function No.</td> </tr> <tr> <td>03</td> <td>-</td> <td>Enter Option (Sector 3 is now Partial Exit/Entry sector)</td> </tr> <tr> <td>On</td> <td>-</td> <td>Store Entry</td> </tr> </tbody> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>		Key Sequence		Operation	51	-	Enter Function No.	03	-	Enter Option (Sector 3 is now Partial Exit/Entry sector)	On	-	Store Entry
Key Sequence		Operation											
51	-	Enter Function No.											
03	-	Enter Option (Sector 3 is now Partial Exit/Entry sector)											
On	-	Store Entry											
Function 52 - Sections to operate in 24 Hour mode <i>Default - none</i>													
<p>Description : Display and change which sections will operate as 24 hour inputs.</p>	<p>Option : (Two digit entry required per sector) Any sector or combination of sectors from 1 to 8</p>												
<p>Example : While in program mode (Program LED flashing)</p> <table border="0"> <thead> <tr> <th>Key Sequence</th> <th></th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>52</td> <td>-</td> <td>Enter Function No.</td> </tr> <tr> <td>07</td> <td>-</td> <td>Enter Options (Sector 7 is now active 24hrs)</td> </tr> <tr> <td>On</td> <td>-</td> <td>Store Entry</td> </tr> </tbody> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>		Key Sequence		Operation	52	-	Enter Function No.	07	-	Enter Options (Sector 7 is now active 24hrs)	On	-	Store Entry
Key Sequence		Operation											
52	-	Enter Function No.											
07	-	Enter Options (Sector 7 is now active 24hrs)											
On	-	Store Entry											
Function 54 - Disable Sirens On First Keypress <i>Default - Disabled (1)</i>													
<p>Description : This function determines whether the sirens will be silenced for 10 seconds on the first key press. This allows the audible feedback from the keypad to be heard without the sirens interfering. (Does not work on keypad panic)</p>	<p>Options : (Single digit entry required) 0 = Sirens are not disabled on first keypress. 1 = Sirens are silenced for 10 secs on the first keypress.</p>												
<p>Example : While in program mode (Program LED flashing)</p> <table border="0"> <thead> <tr> <th>Key Sequence</th> <th></th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>42</td> <td>-</td> <td>Enter Function No.</td> </tr> <tr> <td>0</td> <td>-</td> <td>Enter Option (0 = Sirens are not silenced)</td> </tr> <tr> <td>On</td> <td>-</td> <td>Store Entry</td> </tr> </tbody> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>		Key Sequence		Operation	42	-	Enter Function No.	0	-	Enter Option (0 = Sirens are not silenced)	On	-	Store Entry
Key Sequence		Operation											
42	-	Enter Function No.											
0	-	Enter Option (0 = Sirens are not silenced)											
On	-	Store Entry											

Function 55 - Silent Sections		<i>Default - None</i>																		
<p>Description : Display and change which sections will operate as Silent Sections ie. they will report to the monitoring company but will not activate the sirens.</p>	<p>Options : (Two digit entry required per sector) Any sector or combination of sectors from 1 to 8</p>																			
<p>Example : While in program mode (Program LED flashing)</p> <table border="0"> <thead> <tr> <th>Key Sequence</th> <th></th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>55</td> <td>-</td> <td>Enter Function No.</td> </tr> <tr> <td>05</td> <td>-</td> <td>Enter Option (Sector 5 is now silent)</td> </tr> <tr> <td>06</td> <td>-</td> <td>Enter Option (Sector 6 is now silent)</td> </tr> <tr> <td>07</td> <td>-</td> <td>Enter Option (Sector 7 is now silent)</td> </tr> <tr> <td>On</td> <td>-</td> <td>Store Entry</td> </tr> </tbody> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>			Key Sequence		Operation	55	-	Enter Function No.	05	-	Enter Option (Sector 5 is now silent)	06	-	Enter Option (Sector 6 is now silent)	07	-	Enter Option (Sector 7 is now silent)	On	-	Store Entry
Key Sequence		Operation																		
55	-	Enter Function No.																		
05	-	Enter Option (Sector 5 is now silent)																		
06	-	Enter Option (Sector 6 is now silent)																		
07	-	Enter Option (Sector 7 is now silent)																		
On	-	Store Entry																		
Function 60 - Account number		<i>Default - None</i>																		
<p>Description : This function is used to enter the account number for transmission to the Central Station.</p>	<p>Options : (Four digit entry required) Any 4 Digits Limits 0000 - 9999</p>																			
<p>Notes: The dialler will not dial if the account number (Function 60) or phone number 1 (Function 64) is not programmed or the account number is set to 0000. Entering the function number and then pressing the isol + code key will clear entries for Functions 60, 62, 64 and 65.</p>																				
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Key Sequence		Operation																		
60	-	Enter Function No.																		
1234	-	Enter Option (Account Number is now 1234)																		
On	-	Store Entry																		
Function 62 - Download Phone Number		<i>Default - None</i>																		
<p>Description : This phone number is used by the panel when downloading is initiated by the MCM Connect downloading software.</p>	<p>Options : (Max of 15 digits) The phone number may be up to 15 digits long including pauses. Pauses (1 second) may be entered anywhere by pressing the Partial key.</p>																			
<p>Example : While in program mode (Program LED flashing)</p> <table border="0"> <thead> <tr> <th>Key Sequence</th> <th></th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>62</td> <td>-</td> <td>Enter Function No.</td> </tr> <tr> <td>02</td> <td>-</td> <td>Enter Area Code</td> </tr> <tr> <td>part</td> <td>-</td> <td>Enter a 1 second Pause</td> </tr> <tr> <td>218067</td> <td>-</td> <td>Enter Phone number (047p2180676)</td> </tr> <tr> <td>On</td> <td>-</td> <td>Store Entry</td> </tr> </tbody> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>			Key Sequence		Operation	62	-	Enter Function No.	02	-	Enter Area Code	part	-	Enter a 1 second Pause	218067	-	Enter Phone number (047p2180676)	On	-	Store Entry
Key Sequence		Operation																		
62	-	Enter Function No.																		
02	-	Enter Area Code																		
part	-	Enter a 1 second Pause																		
218067	-	Enter Phone number (047p2180676)																		
On	-	Store Entry																		

Function 63 - Open/Close reports - Yes / No.		Default -Send open /close												
<p>Description : Selects whether open / close reports are sent or not.</p> <p>Options : (Single digit entry required) 1 Open / Close sent 0 No Open / Close sent.</p> <p>Example : While in programmode (Program LED flashing)</p> <table border="0"> <thead> <tr> <th>Key Sequence</th> <th></th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>63</td> <td>-</td> <td>Enter Function No.</td> </tr> <tr> <td>0</td> <td>-</td> <td>Enter Option (0 = no report)</td> </tr> <tr> <td>On</td> <td>-</td> <td>Store Entry</td> </tr> </tbody> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>	Key Sequence		Operation	63	-	Enter Function No.	0	-	Enter Option (0 = no report)	On	-	Store Entry		
Key Sequence		Operation												
63	-	Enter Function No.												
0	-	Enter Option (0 = no report)												
On	-	Store Entry												
Function 64 - Phone number 1		Default - None												
<p>Description : This phone number is the first number used by the panel when reporting to the monitoring company.</p> <p>Options : (Maximum of 15 digits) The phone number may be up to 15 digits long including pauses. Pauses (1 second) may be entered anywhere by pressing the Partial key.</p> <p>Example : While in program mode (Program LED flashing)</p> <table border="0"> <thead> <tr> <th>Key Sequence</th> <th></th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>64</td> <td>-</td> <td>Enter Function No.</td> </tr> <tr> <td>218572</td> <td>-</td> <td>Enter Option (Phone number 1 is 218572)</td> </tr> <tr> <td>On</td> <td>-</td> <td>Store Entry</td> </tr> </tbody> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>	Key Sequence		Operation	64	-	Enter Function No.	218572	-	Enter Option (Phone number 1 is 218572)	On	-	Store Entry		
Key Sequence		Operation												
64	-	Enter Function No.												
218572	-	Enter Option (Phone number 1 is 218572)												
On	-	Store Entry												
Function 65 - Phone number 2		Default - None												
<p>Description : This phone number is the alternative number used by the panel when reporting to the monitoring company and is only used if the panel fails to report to Phone #1</p> <p>Options : (Maximum of 15 digits) The phone number may be up to 15 digits long including pauses. Pauses (1 second) may be entered anywhere by pressing the Partial key.</p> <p>Example : While in program mode (Program LED flashing)</p> <table border="0"> <thead> <tr> <th>Key Sequence</th> <th></th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>65</td> <td>-</td> <td>Enter Function No.</td> </tr> <tr> <td>218067</td> <td>-</td> <td>Enter Option (Phone number 2 is 218067)</td> </tr> <tr> <td>On</td> <td>-</td> <td>Store Entry</td> </tr> </tbody> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>	Key Sequence		Operation	65	-	Enter Function No.	218067	-	Enter Option (Phone number 2 is 218067)	On	-	Store Entry		
Key Sequence		Operation												
65	-	Enter Function No.												
218067	-	Enter Option (Phone number 2 is 218067)												
On	-	Store Entry												
Function 66 - Dialling method		Default - DTMF (tone)												
<p>Description : Selects to dial in DTMF or Decadic</p> <p>Options : (Single digit entry required) 0 Dial in Decadic, (pulse) 1 Dial in DTMF, (tone) 2 Dial in New Zealand Decadic</p> <p>Example : While in program mode (Program LED flashing)</p> <table border="0"> <thead> <tr> <th>Key Sequence</th> <th></th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>66</td> <td>-</td> <td>Enter Function No.</td> </tr> <tr> <td>1</td> <td>-</td> <td>Enter Option (1 = Dial in DTMF)</td> </tr> <tr> <td>On</td> <td>-</td> <td>Store Entry</td> </tr> </tbody> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>	Key Sequence		Operation	66	-	Enter Function No.	1	-	Enter Option (1 = Dial in DTMF)	On	-	Store Entry		
Key Sequence		Operation												
66	-	Enter Function No.												
1	-	Enter Option (1 = Dial in DTMF)												
On	-	Store Entry												

Function 67 - Reporting format		Default - Contact I.D. (4)												
<p>Description : This function determines the format the dialler will report in.</p>	<p>Option : (Single digit entry required) 0 Normal Reporting (ADEMCO high speed) 1 Tape Dial (No handshake to start Tx.) 4 Contact I.D. single account number.</p>													
<p>Notes: When selected Tape Dial mode causes the dialler not to listen for acknowledge tone and starts sending alarm message continuously until 30 second timeout or until a kissoff tone. (In this mode a kissoff tone can be a whistle.) If the whistle is received on the first call it will not continue to dial. In this mode no open/closing report, restores, isolate/de-isolates, mains fail, low battery or 24 hour test messages are sent.</p>														
<p>Example : While in program mode (Program LED flashing)</p> <table border="0"> <thead> <tr> <th>Key Sequence</th> <th></th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>67</td> <td>-</td> <td>Enter Function No.</td> </tr> <tr> <td>0</td> <td>-</td> <td>Enter Option (0 = ADEMCO high speed)</td> </tr> <tr> <td>On</td> <td>-</td> <td>Store Entry</td> </tr> </tbody> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>			Key Sequence		Operation	67	-	Enter Function No.	0	-	Enter Option (0 = ADEMCO high speed)	On	-	Store Entry
Key Sequence		Operation												
67	-	Enter Function No.												
0	-	Enter Option (0 = ADEMCO high speed)												
On	-	Store Entry												
Function 68 - Report restorals		Default - Report restorals												
<p>Description : The dialler will normally report when an input is restored to a non alarm condition.</p>	<p>Options : (Single digit entry required) 1 Report restorals 0 Do not report restorals</p>													
<p>Example : While in program mode (Program LED flashing)</p> <table border="0"> <thead> <tr> <th>Key Sequence</th> <th></th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>68</td> <td>-</td> <td>Enter Function No.</td> </tr> <tr> <td>1</td> <td>-</td> <td>Enter Option (1 = Report Restorals)</td> </tr> <tr> <td>On</td> <td>-</td> <td>Store Entry</td> </tr> </tbody> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>			Key Sequence		Operation	68	-	Enter Function No.	1	-	Enter Option (1 = Report Restorals)	On	-	Store Entry
Key Sequence		Operation												
68	-	Enter Function No.												
1	-	Enter Option (1 = Report Restorals)												
On	-	Store Entry												
Function 69 - Test reports		Default - No test reports												
<p>Description : This function programs the number of 24hr periods between test reports, programming a 0 gives no test reports.</p>	<p>Options : (Single digit entry required) 0 to 9 = period in days</p>													
<p>Example : While in program mode (Program LED flashing)</p> <table border="0"> <thead> <tr> <th>Key Sequence</th> <th></th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>69</td> <td>-</td> <td>Enter Function No.</td> </tr> <tr> <td>7</td> <td>-</td> <td>Enter Option (7 = 7 days)</td> </tr> <tr> <td>On</td> <td>-</td> <td>Store Entry</td> </tr> </tbody> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>			Key Sequence		Operation	69	-	Enter Function No.	7	-	Enter Option (7 = 7 days)	On	-	Store Entry
Key Sequence		Operation												
69	-	Enter Function No.												
7	-	Enter Option (7 = 7 days)												
On	-	Store Entry												

Function 70 - Report Using Checksum		Default - Using checksum																
<p>Description : The dialler defaults to use the single round with checksum. If a 0 is programmed the dialler will report in dual round without checksum.</p> <p>Note: Not all base stations can handle reporting with checksum. This function is applicable to ADEMCO high speed reporting only and not CONTACT ID.</p> <p>Example : While in program mode (Program LED flashing)</p> <table border="0"> <thead> <tr> <th>Key Sequence</th> <th></th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>70</td> <td>-</td> <td>Enter Function No.</td> </tr> <tr> <td>0</td> <td>-</td> <td>Enter Option (0 = no checksum)</td> </tr> <tr> <td>On</td> <td>-</td> <td>Store Entry</td> </tr> </tbody> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>	Key Sequence		Operation	70	-	Enter Function No.	0	-	Enter Option (0 = no checksum)	On	-	Store Entry	<p>Options : (Single digit entry required)</p> <table border="0"> <tbody> <tr> <td>1</td> <td>Report using checksum</td> </tr> <tr> <td>0</td> <td>Do not use checksum in reporting</td> </tr> </tbody> </table>	1	Report using checksum	0	Do not use checksum in reporting	
Key Sequence		Operation																
70	-	Enter Function No.																
0	-	Enter Option (0 = no checksum)																
On	-	Store Entry																
1	Report using checksum																	
0	Do not use checksum in reporting																	
Function 71 - Report Isolated Sections		Default - Report isolates																
<p>Description : If enabled the control panel will report isolated sections at the end of exit time.</p> <p>Example : While in program mode (Program LED flashing)</p> <table border="0"> <thead> <tr> <th>Key Sequence</th> <th></th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>71</td> <td>-</td> <td>Enter Function No.</td> </tr> <tr> <td>1</td> <td>-</td> <td>Enter Option (1 = report isolated sectors)</td> </tr> <tr> <td>On</td> <td>-</td> <td>Store Entry</td> </tr> </tbody> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>	Key Sequence		Operation	71	-	Enter Function No.	1	-	Enter Option (1 = report isolated sectors)	On	-	Store Entry	<p>Options : (Single digit entry required)</p> <table border="0"> <tbody> <tr> <td>1</td> <td>Report isolated sections</td> </tr> <tr> <td>0</td> <td>Do not report isolated sections</td> </tr> </tbody> </table>	1	Report isolated sections	0	Do not report isolated sections	
Key Sequence		Operation																
71	-	Enter Function No.																
1	-	Enter Option (1 = report isolated sectors)																
On	-	Store Entry																
1	Report isolated sections																	
0	Do not report isolated sections																	
Function 73 - Delay till First test report		Default - 12 hours																
<p>Description : This sets the delay from when program is exited till the dialler sends its first test report, in multiples of 4 hours.</p> <p>Example : While in program mode (Program LED flashing)</p> <table border="0"> <thead> <tr> <th>Key Sequence</th> <th></th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>73</td> <td>-</td> <td>Enter Function No.</td> </tr> <tr> <td>3</td> <td>-</td> <td>Enter Option (3 = 12hrs)</td> </tr> <tr> <td>On</td> <td>-</td> <td>Store Entry</td> </tr> </tbody> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>	Key Sequence		Operation	73	-	Enter Function No.	3	-	Enter Option (3 = 12hrs)	On	-	Store Entry	<p>Options : (Single digit entry required)</p> <p>0 to 9 = number of 4 hr periods before the first test report.</p>					
Key Sequence		Operation																
73	-	Enter Function No.																
3	-	Enter Option (3 = 12hrs)																
On	-	Store Entry																

Function 74 - Keyboard Duress On / Off		Default - Duress disabled																
<p>Description : Keyboard duress may be disabled to prevent accidental duress alarms from private residences.</p> <p>Note: Duress is achieved by adding 1 to the last digit of the user code eg. 1234 becomes 1235, 6789 becomes 6780.</p> <p>Example : While in program mode (Program LED flashing)</p> <table border="0"> <thead> <tr> <th>Key Sequence</th> <th></th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>74</td> <td>-</td> <td>Enter Function No.</td> </tr> <tr> <td>1</td> <td>-</td> <td>Enter Option (1 = reports enabled)</td> </tr> <tr> <td>On</td> <td>-</td> <td>Store Entry</td> </tr> </tbody> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>	Key Sequence		Operation	74	-	Enter Function No.	1	-	Enter Option (1 = reports enabled)	On	-	Store Entry	<p>Options : (Single digit entry required)</p> <table border="0"> <tbody> <tr> <td>1</td> <td>Duress reports enabled</td> </tr> <tr> <td>0</td> <td>Duress reports disabled</td> </tr> </tbody> </table>	1	Duress reports enabled	0	Duress reports disabled	
Key Sequence		Operation																
74	-	Enter Function No.																
1	-	Enter Option (1 = reports enabled)																
On	-	Store Entry																
1	Duress reports enabled																	
0	Duress reports disabled																	
Function 75 - Auto-Isolate On/Off		Default - Auto-Isolate disabled																
<p>Description : Normally if an attempt to arm the panel with a faulted section (other than an exit/entry section) is made the panel will give an error beep. If this option is enabled then faulted sections will be automatically isolated and will be reported as such.</p> <p>Example : While in program mode (Program LED flashing)</p> <table border="0"> <thead> <tr> <th>Key Sequence</th> <th></th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>75</td> <td>-</td> <td>Enter Function No.</td> </tr> <tr> <td>1</td> <td>-</td> <td>Enter Option (1 = auto-isolation enabled)</td> </tr> <tr> <td>On</td> <td>-</td> <td>Store Entry</td> </tr> </tbody> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>	Key Sequence		Operation	75	-	Enter Function No.	1	-	Enter Option (1 = auto-isolation enabled)	On	-	Store Entry	<p>Options : (Single digit entry required)</p> <table border="0"> <tbody> <tr> <td>1</td> <td>Auto - isolation enabled</td> </tr> <tr> <td>0</td> <td>Auto - isolation disabled</td> </tr> </tbody> </table>	1	Auto - isolation enabled	0	Auto - isolation disabled	
Key Sequence		Operation																
75	-	Enter Function No.																
1	-	Enter Option (1 = auto-isolation enabled)																
On	-	Store Entry																
1	Auto - isolation enabled																	
0	Auto - isolation disabled																	
Function 76 - Multi-Report (Multi-Break)		Default - None																
<p>Description : Display and change which sections will report input condition changes when armed.</p> <p>Note: This option will not give multi triggering of sirens to a section but will give multi reporting. The section LED will latch on the first alarm for that section.</p> <p>Example : While in program mode (Program LED flashing)</p> <table border="0"> <thead> <tr> <th>Key Sequence</th> <th></th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>76</td> <td>-</td> <td>Enter Function No.</td> </tr> <tr> <td>01</td> <td>-</td> <td>Enter Option (01 = sector 1)</td> </tr> <tr> <td>02</td> <td>-</td> <td>Enter Option (02 = sector 2)</td> </tr> <tr> <td>On</td> <td>-</td> <td>Store Entries</td> </tr> </tbody> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>	Key Sequence		Operation	76	-	Enter Function No.	01	-	Enter Option (01 = sector 1)	02	-	Enter Option (02 = sector 2)	On	-	Store Entries	<p>Options : (Two digit entry required per sector)</p> <p>Any sector or combination of sectors from 1 to 8</p>		
Key Sequence		Operation																
76	-	Enter Function No.																
01	-	Enter Option (01 = sector 1)																
02	-	Enter Option (02 = sector 2)																
On	-	Store Entries																

Function 89 - Single Digit Arming		Default - disabled															
<p>Description : This function, when enabled, will allow the panel to be turned on by pressing the 0 key and either the 'ON' key for full arming or 'PARTIAL' key for partial arming.</p> <p>NOTE: If opening / closing reporting is enabled, the unit will report an opening or closing with user 31 in CONTACT ID format or user 15 with ADEMCO high speed format.</p> <p>Example : While in program mode (Program LED flashing)</p> <table style="margin-left: 20px; border: none;"> <tr> <td style="padding-right: 10px;">Key Sequence</td> <td style="padding-right: 10px;"></td> <td style="padding-right: 10px;"></td> <td style="padding-right: 10px;">Operation</td> </tr> <tr> <td>89</td> <td>-</td> <td></td> <td>Enter Function No.</td> </tr> <tr> <td>1</td> <td>-</td> <td></td> <td>Enter Option (1 = single digit arming enabled)</td> </tr> <tr> <td>On</td> <td>-</td> <td></td> <td>Store Entry</td> </tr> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>	Key Sequence			Operation	89	-		Enter Function No.	1	-		Enter Option (1 = single digit arming enabled)	On	-		Store Entry	<p>Options : (Single digit entry required) 0 = Single digit arming is disabled 1 = Single digit arming is enabled</p>
Key Sequence			Operation														
89	-		Enter Function No.														
1	-		Enter Option (1 = single digit arming enabled)														
On	-		Store Entry														
Function 90 - Default System Parameters																	
<p>Description : This option is used to default all system setup values and user numbers etc, back to known values.</p> <p>Example : While in program mode (Program LED flashing)</p> <table style="margin-left: 20px; border: none;"> <tr> <td style="padding-right: 10px;">Key Sequence</td> <td style="padding-right: 10px;"></td> <td style="padding-right: 10px;"></td> <td style="padding-right: 10px;">Operation</td> </tr> <tr> <td>90</td> <td>-</td> <td></td> <td>Enter Function No.</td> </tr> <tr> <td>On</td> <td>-</td> <td></td> <td>Panel will default to Factory defaults</td> </tr> </table> <p>Installer will automatically be exited from program mode when this function is invoked and will have to re-enter program mode using the default Technician code (218067)</p>	Key Sequence			Operation	90	-		Enter Function No.	On	-		Panel will default to Factory defaults	<p>Options : None</p>				
Key Sequence			Operation														
90	-		Enter Function No.														
On	-		Panel will default to Factory defaults														
Function 91 - Bell Output Type		Default - Normal Bell Output															
<p>Description : This function determines what events will trigger the bell 1 output</p> <p>Notes :</p> <ol style="list-style-type: none"> 1. When used for Smoke Detector Power (option 4), the Bell Output is used as the negative supply to the Detectors. The Smoke Detector power may be turned off for 5 seconds when the panel is not armed by entering a user code and then TEST 6. 2. When option 1 is selected and the keyswitch function (Function 93) has been enabled, the bell output will give :- 1 beep on disarm, 2 beeps on arming and 5 beeps if arming was unsuccessful <p>Example : While in program mode (Program LED flashing)</p> <table style="margin-left: 20px; border: none;"> <tr> <td style="padding-right: 10px;">Key Sequence</td> <td style="padding-right: 10px;"></td> <td style="padding-right: 10px;"></td> <td style="padding-right: 10px;">Operation</td> </tr> <tr> <td>91</td> <td>-</td> <td></td> <td>Enter Function No.</td> </tr> <tr> <td>2</td> <td>-</td> <td></td> <td>Enter Option (2 = panel secure o/p)</td> </tr> <tr> <td>On</td> <td>-</td> <td></td> <td>Store Entry</td> </tr> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>	Key Sequence			Operation	91	-		Enter Function No.	2	-		Enter Option (2 = panel secure o/p)	On	-		Store Entry	<p>Options : (Single digit entry required) 0 - Normal Bell Output 1 - Normal Bell Output Plus Pulse Output For Keyswitch Option 2 - Panel Secure 3 - 24 Hour input in Alarm 4 - Smoke Detector Power</p>
Key Sequence			Operation														
91	-		Enter Function No.														
2	-		Enter Option (2 = panel secure o/p)														
On	-		Store Entry														

Function 92 - Slave Dialler Option		Default - Control Dialler												
<p>Description : If this option is enabled, the panel will, to all intents and purposes act as a slave dialler.</p> <p>Note: When the Slave Dialler option is selected, inputs are 10k end of line</p> <p>Example : While in program mode (Program LED flashing)</p> <table border="0"> <thead> <tr> <th>Key Sequence</th> <th></th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>92</td> <td>-</td> <td>Enter Function No.</td> </tr> <tr> <td>0</td> <td>-</td> <td>Enter Option (0 = Control Dialler)</td> </tr> <tr> <td>On</td> <td>-</td> <td>Store Entry</td> </tr> </tbody> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>	Key Sequence		Operation	92	-	Enter Function No.	0	-	Enter Option (0 = Control Dialler)	On	-	Store Entry	<p>Options : (Single digit entry required)</p> <p>0 - Control Dialler</p> <p>1 - Slave Dialler</p>	
Key Sequence		Operation												
92	-	Enter Function No.												
0	-	Enter Option (0 = Control Dialler)												
On	-	Store Entry												
Function 93 - Keyswitch Option		Default - No Keyswitch												
<p>Description : This function, if enabled, will allow sectors 7 and 8 to be used as keyswitch inputs. The Keyswitch is fitted to inputs 7 and 8. These inputs are disabled as alarm inputs. To arm panel into Partial mode seal input 7 (with 10K resistor). To arm panel into Secure mode seal input 8 (with 10K resistor). To disarm panel unseal inputs 7 or 8.</p> <p>Example : While in program mode (Program LED flashing)</p> <table border="0"> <thead> <tr> <th>Key Sequence</th> <th></th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>93</td> <td>-</td> <td>Enter Function No.</td> </tr> <tr> <td>3</td> <td>-</td> <td>Enter Option (Sector 8 becomes a keyswitch input)</td> </tr> <tr> <td>On</td> <td>-</td> <td>Store Entry</td> </tr> </tbody> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>	Key Sequence		Operation	93	-	Enter Function No.	3	-	Enter Option (Sector 8 becomes a keyswitch input)	On	-	Store Entry	<p>Options : (Single digit entry required)</p> <p>0 - No Keyswitch fitted</p> <p>1 - Latched Keyswitch (input 7 = partial, input 8 = full arm)</p> <p>2 - Momentary Keyswitch, intended for radio control. Includes a Panic Feature if input faulted for longer than 2 secs. As per option 1, input 7 is partial arm and input 8 is full arm.</p> <p>3 - Momentary Keyswitch as per option 2 but with only input 8 used (Full arm only)</p> <p>4 - Momentary Keyswitch as per option 2 but with only input 7 used (Partial arm only)</p>	
Key Sequence		Operation												
93	-	Enter Function No.												
3	-	Enter Option (Sector 8 becomes a keyswitch input)												
On	-	Store Entry												
Function 94 - Siren Speed		Default - medium(6)												
<p>Description : This function may be used to vary the speed of the siren outputs.</p> <p>Example : While in program mode (Program LED flashing)</p> <table border="0"> <thead> <tr> <th>Key Sequence</th> <th></th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>94</td> <td>-</td> <td>Enter Function No.</td> </tr> <tr> <td>3</td> <td>-</td> <td>Enter Option (3 = Faster than default)</td> </tr> <tr> <td>On</td> <td>-</td> <td>Store Entry</td> </tr> </tbody> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>	Key Sequence		Operation	94	-	Enter Function No.	3	-	Enter Option (3 = Faster than default)	On	-	Store Entry	<p>Options : (Single digit entry required)</p> <p>9 (slow) to 1 (fast)</p>	
Key Sequence		Operation												
94	-	Enter Function No.												
3	-	Enter Option (3 = Faster than default)												
On	-	Store Entry												

Function 95 - Arming Lockout		Default - Arming enabled												
<p>Description : This function may be used to prevent the user from being able to arm the panel</p>	<p>Options : 0 = Arming can be performed. 1 = Arming is disabled.</p>													
<p>Example : While in program mode (Program LED flashing)</p> <table border="0"> <thead> <tr> <th>Key Sequence</th> <th></th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>95</td> <td>-</td> <td>Enter Function No.</td> </tr> <tr> <td>1</td> <td>-</td> <td>Enter Option (1 = Panel cannot be armed by user code)</td> </tr> <tr> <td>On</td> <td>-</td> <td>Store Entry</td> </tr> </tbody> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>			Key Sequence		Operation	95	-	Enter Function No.	1	-	Enter Option (1 = Panel cannot be armed by user code)	On	-	Store Entry
Key Sequence		Operation												
95	-	Enter Function No.												
1	-	Enter Option (1 = Panel cannot be armed by user code)												
On	-	Store Entry												
Function 96 - Download Configuration		Default - 5												
<p>Description : This function determines how a download / upload session is initiated.</p>	<p>Options : (Single digit entry required) 0 = Download disabled 1 = Ring detect only 2 = Ring detect or Tech code only 3 = Ring detect, Master code or Tech code 4 = Tech code only 5 = Master or Tech code only</p>													
<p>Notes : Downloading can be initiated by one of the three methods listed below :</p> <ol style="list-style-type: none"> 1. Ring Detect - The panel will dial back using the download phone number (Function 62) if it receives three calls, of six rings duration (4-8), within a 90 second period. 2. Master code initiated - Entering the User Master Code + test 8 will cause the panel to dial as if it had detected the correct ring sequence. 3. Tech code initiated - Tech code + test 80 will cause the panel to dial as if it had detected the correct ring sequence. 														
<p>Example : While in program mode (Program LED flashing)</p> <table border="0"> <thead> <tr> <th>Key Sequence</th> <th></th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>96</td> <td>-</td> <td>Enter Function No.</td> </tr> <tr> <td>1</td> <td>-</td> <td>Enter Option (1 = ring detect only)</td> </tr> <tr> <td>On</td> <td>-</td> <td>Store Entry</td> </tr> </tbody> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>			Key Sequence		Operation	96	-	Enter Function No.	1	-	Enter Option (1 = ring detect only)	On	-	Store Entry
Key Sequence		Operation												
96	-	Enter Function No.												
1	-	Enter Option (1 = ring detect only)												
On	-	Store Entry												

Function 98 - Status on power up		Default - Do not retain status												
<p>Description : If this option is enabled, the panel will attempt to power up in its previous state when power is restored. (e.g. Armed). If it was previously armed it will ignore the sector inputs for a settling period of 90 seconds and then re-arm. Any sectors unsealed after this settling period will be automatically isolated.</p> <p>If this option is disabled then the panel will power up in the OFF mode regardless of its previous state.</p> <p>NOTE: Pressing the OFF key during the 90 sec settling period will abort the rearm and panel will stay in the OFF mode.</p> <p>Example : While in program mode (Program LED flashing)</p> <table border="0"> <thead> <tr> <th style="text-align: left;">Key Sequence</th> <th style="text-align: center;">-</th> <th style="text-align: left;">Operation</th> </tr> </thead> <tbody> <tr> <td>98</td> <td style="text-align: center;">-</td> <td>Enter Function No.</td> </tr> <tr> <td>1</td> <td style="text-align: center;">-</td> <td>Enter Option (1 = Retain status)</td> </tr> <tr> <td>On</td> <td style="text-align: center;">-</td> <td>Store Entry</td> </tr> </tbody> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>	Key Sequence	-	Operation	98	-	Enter Function No.	1	-	Enter Option (1 = Retain status)	On	-	Store Entry	<p>Options : 0 = Do not retain status. 1 = Retain status.</p>	
Key Sequence	-	Operation												
98	-	Enter Function No.												
1	-	Enter Option (1 = Retain status)												
On	-	Store Entry												
Function 99 - Technician Code		Default - 218067 (six digits)												
<p>Description : The Technician code is used to set up all functions of the system. Tech code can only be used when the system is in the OFF mode.</p> <p>Example : While in program mode (Program LED flashing)</p> <table border="0"> <thead> <tr> <th style="text-align: left;">Key Sequence</th> <th style="text-align: center;">-</th> <th style="text-align: left;">Operation</th> </tr> </thead> <tbody> <tr> <td>99</td> <td style="text-align: center;">-</td> <td>Enter Function No.</td> </tr> <tr> <td>218067</td> <td style="text-align: center;">-</td> <td>Enter Option (Tech code = 218067)</td> </tr> <tr> <td>On</td> <td style="text-align: center;">-</td> <td>Store Entry</td> </tr> </tbody> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>	Key Sequence	-	Operation	99	-	Enter Function No.	218067	-	Enter Option (Tech code = 218067)	On	-	Store Entry	<p>Options : (6 digit entry required) Any 6 Digits</p>	
Key Sequence	-	Operation												
99	-	Enter Function No.												
218067	-	Enter Option (Tech code = 218067)												
On	-	Store Entry												

Function 00 - Master Code	Default - 218572 (six digits)																					
<p>Description : 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.</p> <p>Options : (6 digit entry required) Any 6 Digits</p> <p>Notes: Ensure the Master code is different to the Technicians code. If the Master code is the same as the Technician code then the technician will not be able to gain access to program the system functions</p> <p>Example : While in program mode (Program LED flashing)</p> <table border="0"> <thead> <tr> <th>Key Sequence</th> <th></th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>00</td> <td>-</td> <td>Enter Function No.</td> </tr> <tr> <td>218572</td> <td>-</td> <td>Enter Option (Master code = 218572)</td> </tr> <tr> <td>On</td> <td>-</td> <td>Store Entry</td> </tr> </tbody> </table> <p>Installer may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>	Key Sequence		Operation	00	-	Enter Function No.	218572	-	Enter Option (Master code = 218572)	On	-	Store Entry										
Key Sequence		Operation																				
00	-	Enter Function No.																				
218572	-	Enter Option (Master code = 218572)																				
On	-	Store Entry																				
Function 01 - User Code 1	Default - 1111 (four digits only)																					
<p>Description : Function 01 allows the programming of user code 1. This User code is the only one with a default value but in all other respects is the same as User codes 02 to 30</p> <p>Options : (Four digit entry required) Any 4 Digits (see notes)</p> <p>Notes:</p> <ul style="list-style-type: none"> - 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 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. - The User codes may be deleted by using the Isolate key in place of the 4 digits in the user code (the Isolate key needs to be used only once to delete all four digits of the user code). <p>Example : While in program mode (Program LED flashing)</p> <table border="0"> <thead> <tr> <th>Key Sequence</th> <th></th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>-</td> <td>Select User No. 01</td> </tr> <tr> <td>2222</td> <td>-</td> <td>Enter Option (User code 1 = 2222)</td> </tr> <tr> <td>On</td> <td>-</td> <td>Store Entry</td> </tr> <tr> <td>02</td> <td>-</td> <td>Select Function No. 02</td> </tr> <tr> <td>Isolate</td> <td>-</td> <td>Delete User Code 2</td> </tr> <tr> <td>On</td> <td>-</td> <td>Store Entry</td> </tr> </tbody> </table> <p>Installer or Master code holder may now exit program mode by pressing the OFF button or continue programming by entering a new function number.</p>	Key Sequence		Operation	01	-	Select User No. 01	2222	-	Enter Option (User code 1 = 2222)	On	-	Store Entry	02	-	Select Function No. 02	Isolate	-	Delete User Code 2	On	-	Store Entry	
Key Sequence		Operation																				
01	-	Select User No. 01																				
2222	-	Enter Option (User code 1 = 2222)																				
On	-	Store Entry																				
02	-	Select Function No. 02																				
Isolate	-	Delete User Code 2																				
On	-	Store Entry																				

REPORTING CODES	Ademco High Speed	Function
67=0		
EXPANDED HIGH SPEED REPORT CODES		
The high speed ADEMCO reports are 13 digits long with the first four digits being allocated to be the client's account number, the next 8 digits allocated to be event reporting channels with the last digit being the channel status code.		
Valid codes for the 8 event reporting channel codes with their meanings are as follows :		
Code	Meaning	
1	New event	
2	New opening	
3	New restore	
4	New closing	
5	Normal	
6	Previously reported event still in effect	
Valid codes for the channel status code with their meaning are as follows:-		
Code	Meaning	
1	Duress report in previous 8 channels (alarm in channel 1) e.g. acct #. channels. code. 1234 1555 5555 1	
2	Opening report in previous 8 channels (user id in channel 1) e.g. acct #. channels. code. 1234 7222 2222 2 - user 7 disarmed the system	
3	Zone bypass status report in previous 8 channels e.g. acct #. channels. code. 1234 5515 5555 3 - zone 3 newly isolated 1234 1565 5555 3 - zone 1 newly isolated, zone 3 previously isolated 1234 3535 5555 3 - zones 1 and 3 isolate restoral	
4	Closing report in previous 8 channels e.g. acct #. channels. code. 1234 8444 4444 4 - user 8 armed the system 1234 F444 4444 4 - user 15 armed the system	
5	Zone trouble report in previous 8 channels (not used)	
6	System trouble report in the previous 8 channels (not used)	
7	Zone alarm status report e.g. acct #. channels. code. 1234 5515 5555 7 - zone 3 newly alarmed 1234 1565 5555 7 - zone 1 newly alarmed, zone 3 previously alarm 1234 3535 5555 7 - zones 1 and 3 restoral	
8	New low battery alarm e.g. acct #. channels. code. 1234 5555 5555 8 - low battery alarm	
9	Test report. Alarm status is reported in the previous 8 channels e.g. acct #. channels. code. 1234 5555 5655 9 - test report, prev. zone 6 alarm.	

REPORTING CODES

Contact ID

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
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 3 301 00 000	AC Fail restore
1234 18 1 302 00 000	Low battery alarm
1234 18 1 401 00 001	Open message with user code 1
1234 18 1 602 00 000	Test Report

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 **60** 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 battery 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 **60** minute mains fail time, then it takes precedence over the mains fail and both events will be reported.
- **TEST DIAL** To test the reporting ability of the dialler a test dial may be initiated by entering a **User code** and then **TEST 9**. When the dialler receives the handshake tones from the monitoring station the dialler will give **3** beeps. When **Tape Dial** (option **67**) is enabled the dialler will give **3** beeps after dialling is completed for the test call.
NOTE: This test dial will reset the time to the next test dial if test reports are enabled.
- **TECHTEST FUNCTIONS** In addition to the normal test functions, the technicians code also allows the initiation of automatic **upload** or **download** sessions when using the **MCM Connect 2000** software package. The sequence is :

Tech Code + TEST 80

NOTE:

In all instances when mentioned in this manual, **Download** refers to information being sent from the PC to the remote Panel and **Upload** refers to information being sent from the remote Panel to the PC.