ICON 8

Installers Manual



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CONTENTS

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

Other Features

Telecom Plug 0 relay Connection diagram 9 8 -10 k ohm monitored inputs 2 4 3 12vbc 001 sir +ext bell 10 k ohm resistor Motion Sensor Internal Screamer 1 16Vac 1.5A Plug Pack External Siren 001 nternal Screamer2 12V 6.5 Ah Battery 00000 MIEN Protection income Strobe

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 hou**r 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 up to 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 a non alarm state with one keypad 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.at up to 7Ah

Int bell Output (timed) to DC screamers, fused via INTERNAL fuse. May

or **bell1** also be programmed (via Function 91) as armed, 24 hr alarm, bell or to

power to latching smoke detectors. These then can be reset by User Code Test 6.

Int bell2 Output (timed) to drive DC screamers, fused via INTERNAL fuse.

This bell 2 output is not programmable other than Bell Time (Function 42)

It is fixed as a bell output.

Ext stb 12v dc output to drive a 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.

TelecomThis is connected to the Exchange line, via the Telecom lead **Line socket**which is supplied with the unit. The Telecom lead uses pins 2 8

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.

ACMA Supplier Reference Number N3295.

High This terminal connects to a dual GAS ARRESTOR. This device is Integrity the same as used by Telecom in exchanges and main frames to protect against lightning induced voltages. If this terminal is

Earth connected, it must be hard wired otherwise Austel Permit will be

rendered Void.

Keypad These 4 terminals connect to the REMOTE KEYPADS.

+ The terminal marked + connects to the + terminal on the keypad

C The terminal marked C connects to the C on the keypads
D 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.

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 reported.

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 $\ \, \mathbf{6} \, \, \mathbf{0} \, \,$ followed by the $\mathbf{TEST} \, \, \mathbf{key}.$ (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.) |
| 1234567 | (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.) |
|------|--|
| 0108 | (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.) |

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

 - 50 seconds - 0 seconds - 60 seconds - 10 seconds - 20 seconds - 70 seconds - 30 seconds 8 - 80 seconds - 40 seconds - 90 seconds

Example: While in program mode (Program LED flashing)

Key Sequence Operation

40 Enter Function No. 5 Enter Option (5 = 50 seconds)

Store Entry on

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.

Notes:

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

Options - (Single digit entry required)

5 - 50 seconds O - O 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)

Operation Key Sequence

41 Enter Function No.

3 Enter Option (3 = 30 seconds)

Store Entry on

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

Function 42 - Siren Time

Default - 5 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
 1 - 10 seconds
 2 - 20 seconds
 3 - 40 seconds
 90 seconds **0** - 0 seconds **5** - 2 min 40 sec **6** - 5 min **7** - 10 min 8 - 21 min **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 5 minutes.

Example: While in program mode (Program LED flashing)

Key Sequence Operation

42 Enter Function No.

6 Enter Option (6 = 5 minutes)

Store Entry on

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

43 - 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.

O - 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.

• Enter Option (Sector 2 is removed and section 8 is added)

On - Store Entry

Function 50 - Exit and Handover Sections in ON Mode Default - non

Description: Options: (Two digit entry required per sector)

Display and / or change which sections will

Any sector or combination of sectors from 1 to 8

have exit / handover delay.

Notes: Sectors selected will only have entry time if an exit/entry sector is triggered first.

Example: While in program mode (Program LED flashing)

Key Sequence Operation 50 - Enter Function No.

• Enter Option (Sector 2 becomes handover)

On - Store Entry

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

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

Description : Options : (Two digit entry required per sector)

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

Any sector or combination of sectors from 1 to 8

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.

Example: While in program mode (Program LED flashing)

Key Sequence

51
- Enter Function No.

03
- Enter Option (Sector 3 is now Partial Exit/Entry sector)

On
- Store Entry

On - Store Entry
Installer may now exit program mode by pressing the OFF button or continue programming by entering a

new function number.

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

Description: Option: (Two digit entry required per sector)

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

Any sector or combination of sectors from 1 to 8

Example: While in program mode (Program LED flashing)

Key Sequence

52
- Enter Function No.

07
- Enter Options (Sector 7 is now active 24hrs)

On
- Store Entry

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

Function 54 - Disable Sirens On First Keypress Default - Disabled

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)

Options: (Single digit entry required)

0 = Sirens are not disabled on first keypress.

1 = Sirens are silenced for 10 secs on the first keypress.

Example: While in program mode (Program LED flashing)

Key Sequence Operation
54 - Enter Function No.

• Enter Option (0 = Sirens are not silenced)

On - Store Entry

Function 55 - Silent Sections

Default - None

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.

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 |
|--------------|---|---------------------------------------|
| 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 |

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

Function 60 - Account number

Default - None

Description:

This function is used to enter the account number for transmission to the Central Station Options: (Four digit entry required)
Any 4 Digits Limits 0000 - 9999

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.

Example: While in program mode (Program LED flashing)

| Key Sequence | | Operation |
|--------------|---|---|
| 60 | - | Enter Function No. |
| 1234 | - | Enter Option (Account Number is now 1234) |
| On | - | Store Entry |

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

Function 62 - Download Phone Number

Default - None

Description:

This phone number is used by the panel when downloading is initiated by the MCM Connect downloading software.

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.

Example : While in program mode (Program LED flashing)

| 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

Description:

Options: (Single digit entry required)

Selects whether open / close reports are sent or not

Open / Close sent
 No Open / Close sent.

Example: While in programmode (Program LED flashing)

Key Sequence Operation
63 - Enter Function No.

O - Enter Option (0 = no report)

On - Store Entry

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

Function 64 - Phone number 1

Default - None

Description:

This phone number is the first number used by the panel when reporting to the monitoring company.

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.

Example: While in program mode (Program LED flashing)

Key Sequence Operation
64 - Enter Function No.

218572 - Enter Option (Phone number 1 is 218572)

On - Store Entry

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

Function 65 - Phone number 2

Default - None

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

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.

Example: While in program mode (Program LED flashing)

Key Sequence Operation
65 - Enter Function No.

218067 - Enter Option (Phone number 2 is 218067)

On - Store Entry

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

Function 66 - Dialling method

Default - DTMF (tone)

Description: Options: (Single digit entry required)

Selects to dial in DTMF or Decadic

O Dial in Decadic, (pulse)

1 Dial in DTMF, (tone)

2 Dial in New Zealand Decadic

Example: While in program mode (Program LED flashing)

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)

Description:

This function determines the format the dialler will report in.

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.

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.

Example: While in program mode (Program LED flashing)

| i pio . Trimo in progra | iiii iiioac | (Fregram LED hashing) |
|--------------------------------|-------------|--------------------------------------|
| Key Sequence | | Operation |
| 67 | - | Enter Function No. |
| 0 | - | Enter Option (0 = ADEMCO high speed) |
| On | _ | Store Entry |

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

Function 68 - Report restorals

Default - Report restorals

Description:

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

Options: (Single digit entry required)

Report restoralsDo not report restorals

Example: While in program mode (Program LED flashing)

| Key Sequence | • | Operation |
|--------------|---|---------------------------------------|
| 68 | - | Enter Function No. |
| 1 | - | Enter Option $(1 = Report Restorals)$ |
| On | - | Store Entry |

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

Function 69 - Test reports

Default - No test reports

Description:

This function programs the number of 24hr periods between test reports, programming a **0** gives no test reports.

Options: (Single digit entry required)

0 to 9 = period in days

Example: While in program mode (Program LED flashing)

Key Sequence
69 - Enter Function No.
7 - Enter Option (7 = 7 days)
On - Store Entry

Function 70 - Report Using Checksum

<u>Default - Using checksum</u>

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.

Options: (Single digit entry required)

Report using checksum

0 Do not use checksum in reporting

Note:

Not all base stations can handle reporting with checksum.

This function is applicable to ADEMCO high speed reporting only and not CONTACT ID.

Example: While in program mode (Program LED flashing)

Key Sequence Operation 70 - Enter Function No.

• Enter Option (0 = no checksum)

On - Store Entry

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

Function 71 - Report Isolated Sections

Default - Report isolates

Description:

If enabled the control panel will report isolated sections at the end of exit time.

Options: (Single digit entry required)

1 Report isolated sections

0 Do not report isolated sections

Example: While in program mode (Program LED flashing)

Key Sequence Operation

71 - Enter Function No.

1 - Enter Option (1 = report isolated sectors)

On - Store Entry

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

Function 73 - Delay till First test report

Default - 12 hours

This sets the delay from when program is exited till the dialler sends its first test report, in multiples of **4 hours**.

Options: (Single digit entry required)

0 to 9 = number of 4 hr periods before the first test report.

Example: While in program mode (Program LED flashing)

Key Sequence Operation

73 - Enter Function No.
3 - Enter Option (3 = 12hrs)

On - Store Entry

Function 74 - Keyboard Duress On / Off

Default - Duress disabled

Description:

Keyboard duress may be disabled to prevent accidental duress alarms from private residences.

Options: (Single digit entry required)

Duress reports enabledDuress reports disabled

Note:

Duress is achieved by adding 1 to the last digit of the user code eg. 1234 becomes 1235, 6789 becomes 6780.

Example: While in program mode (Program LED flashing)

Key Sequence Operation 74 - Enter Function No.

1 - Enter Function No.
Enter Option (1 = reports enabled)

On - Store Entry

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

Function 75 - Auto-Isolate On/Off

Default - Auto-Isolate disabled

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.

Options: (Single digit entry required)

1 Auto - isolation enabled0 Auto - isolation disabled

Example: While in program mode (Program LED flashing)

Key Sequence Operation

75 - Enter Function No.

1 - Enter Option (1 = auto-isolation enabled)

On - Store Entry

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

Function 76 - Multi-Report (Multi-Break)

Default - None

Description:

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

Options: (Two digit entry required per sector)
Any sector or combination of sectors from 1 to 8

1) 2)

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.

Example: While in program mode (Program LED flashing)

| Key Sequence | | Operation |
|--------------|---|---------------------------|
| 76 | - | Enter Function No. |
| 01 | - | Enter Option (01 = sector |
| 02 | - | Enter Option (02 = sector |
| On | _ | Store Entries |

Function 89 - Single Digit Arming

Default - disabled

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.

Options: (Single digit entry required)

0 = Single digit arming is disabled

1 = Single digit arming is enabled

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.

Example: While in program mode (Program LED flashing)

Key Sequence Operation 89 Enter Function No.

> Enter Option (1 = single digit arming enabled) 1

On Store Entry

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

Function 90 - Default System Parameters

Description:

This option is used to default all system setup values and user numbers etc, back to known values.

Options:

None

Example: While in program mode (Program LED flashing)

Key Sequence 90

Enter Function No.

On Panel will default to Factory defaults

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)

Function 91 -Bell Output Type

Default - Normal Bell Output

Description:

This function determines what events will trigger the bell 1 output

Options: (Single digit entry required)

0 - Normal Bell Output

- Normal Bell Output Plus Pulse Output for Keyswitch Option

2 Panel Secure

3 24 Hour input in Alarm

4 Smoke Detector Power

Notes:

- 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

Example: While in program mode (Program LED flashing)

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

Description:

If this option is enabled, the panel will, to all intents and purposes act as a slave dialler.

Options: (Single digit entry required)

Control Dialler Slave Dialler

Note: When the Slave Dialler option is selected, inputs are 10k end of line

Example: While in program mode (Program LED flashing)

Key Sequence Operation 92 Enter Function No.

0 Enter Option (0 = Control Dialler)

On Store Entry

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

Function 93 - Keyswitch Option

Default - No Keyswitch

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.

Options: (Single digit entry required)

- No Keyswitch fitted

- Latched Keyswitch (input 7 = partial, input 8 = full arm

- 2 - Momentary Keyswitch, intended for radio control. Includes a Panic Feature if input faulted for longer then 2 secs. As per option 1, input 7 is partial arm and input 8 is full arm.
- 3 - Momentary Keyswitch as per option 2 but with only input 8 used (Full arm only)
- Momentary Keyswitch as per option 2 but with only input 7 used (Partial arm only)

Example: While in program mode (Program LED flashing)

Key Sequence Operation

93 Enter Function No.

3 Enter Option (Sector 8 becomes a keyswitch input)

On Store Entry

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

Function 94 - Siren Speed

Default - medium(6)

Description:

This function may be used to vary the speed of the siren outputs.

Options: (Single digit entry required)

9 (slow) to **1** (fast)

Example: While in program mode (Program LED flashing)

Key Sequence Operation

Enter Function No. 94

3 Enter Option (3 = Faster than default)

On Store Entry

Function 95 - Arming Lockout

Default - Arming enabled

Description: Options:

This function may be used to prevent the user from being able to arm the panel 0 = Arming can be performed.1 = Arming is disabled.

Example: While in program mode (Program LED flashing)

Key Sequence Operation
95 - Enter Function No.

1 - Enter Option (1 = Panel cannot be armed by

user code)

On - Store Entry

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

Function 96 - Download Configuration

Default - 5

Description:

This function determines how a download / upload session is initiated.

Options: (Single digit entry required)

0 = Download disabled1 = 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

Notes:

Downloading can be initiated by one of the three methods listed below:

- 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.

Example: While in program mode (Program LED flashing)

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

Description:

If this option is enabled, the panel will attempt to power up in its previous state when power is restorede.(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.

If this option is disabled then the panel will power up in the **OFF** mode regardless of its previous state.

Options:

 $\mathbf{0} = \mathsf{Do} \; \mathsf{not} \; \mathsf{retain} \; \mathsf{status}.$

1 = Retain status.

NOTE: Pressing the **OFF** key during the **90** sec settling period will abort the rearm and panel will stay in the **OFF** mode.

Example: While in program mode (Program LED flashing)

Key Sequence Operation 98 - Enter Function No.

1 - Enter Option (1 = Retain status)

On - Store Entry

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

Function 99 - Technician Code

Default - 218067 (six digits)

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.

Options: (6 digit entry required)

Any 6 Digits

Example: While in program mode (Program LED flashing)

Key Sequence Operation 99 - Enter Funct

99 - Enter Function No.

218067 - Enter Option (Tech code = 218067)

On - Store Entry

Function 00 - Master Code

Default - 218572 (six digits)

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.

Options: (6 digit entry required)

Any 6 Digits

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

Example: While in program mode (Program LED flashing)

Key Sequence Operation
00 - Enter Function No.

218572 • Enter Option (Master code = 218572)

On - Store Entry

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

Function 01 - User Code 1

Default - 1111 (four digits only)

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

Options: (Four digit entry required)

Any 4 Digits (see notes)

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 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) then press On key.

Example: While in program mode (Program LED flashing)

 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

New event

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:

```
CodeMeaning
```

1

```
2
          New opening
3
          New restore
4
          New closing
5
          Normal
          Previously reported event still in effect
Valid codes for the channel status code with their meaning are as follows:-
Code
          Meaning
          Duress report in previous 8 channels (alarm in channel 1)
1
                e.g. accnt #.
                                channels. code.
                     1234
                                1555 5555
2
          Opening report in previous 8 channels (user id in channel 1)
                                channels. code.
                e.g. accnt #.
                     1234
                                7222 2222
                                                2 - user 7 disarmed the system
3
          Zone bypass status report in previous 8 channels
                e.g. accnt #.
                                channels. code.
                     1234
                                5515 5555
                                                    - zone 3 newly isolated
                                                3
                     1234
                                1565 5555
                                                    - zone 1 newly isolated,
                                                      zone 3 previously isolated
                     1234
                                3535 5555
                                                     - zones 1 and 3 isolate restoral
4
          Closing report in previous 8 channels
                e.g. accnt #.
                                channels. code.
                     1234
                                8444 4444
                                                4
                                                    - user 8 armed the system
                     1234
                                F444 4444
                                                   - user 15 armed the system
                                                4
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. accnt #.
                                channels. code.
                     1234
                                5515 5555
                                                    - zone 3 newly alarmed
                     1234
                                1565 5555
                                                    - zone 1 newly alarmed,
                                                      zone 3 previously alarm
                                3535 5555
                                                     - zones 1 and 3 restoral
                     1234
8
          New low battery alarm
                e.g. accnt #.
                                channels. code.
                     1234
                                5555 5555
                                                8
                                                     - low battery alarm
9
          Test report. Alarm status is reported in the previous 8 channels
                e.g. accnt #.
                                channels. code.
                                5555 5655
                     1234
                                                9 - test report, prev. zone 6 alarm.
```

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 Opening3 = 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 is entered.

- MAINS FAIL

Mains fail is automatically detected and reported by the control dialler. When mains fail is detected the power LED on the Keypad 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 Keypad 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.
- TECH TEST In addition to the normal test functions, the technicians code also allows

 FUNCTIONS 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.