IRIS 16
Installers Manual

New Features

Hardware

Programable OP1 output
Technician service keypad connector
Dual 12volt output terminals
seperate **non monitored** box tamper input
seperate **non monitored** full and parttial arm keyswitch inputs
optional plug on Radio receiver (iRX and iRX2)
Optional plug on GSM dialler module (iGSM)
Default pins
3 x seperate auto resetabble electronics fuses
PSTN line fault monitoring

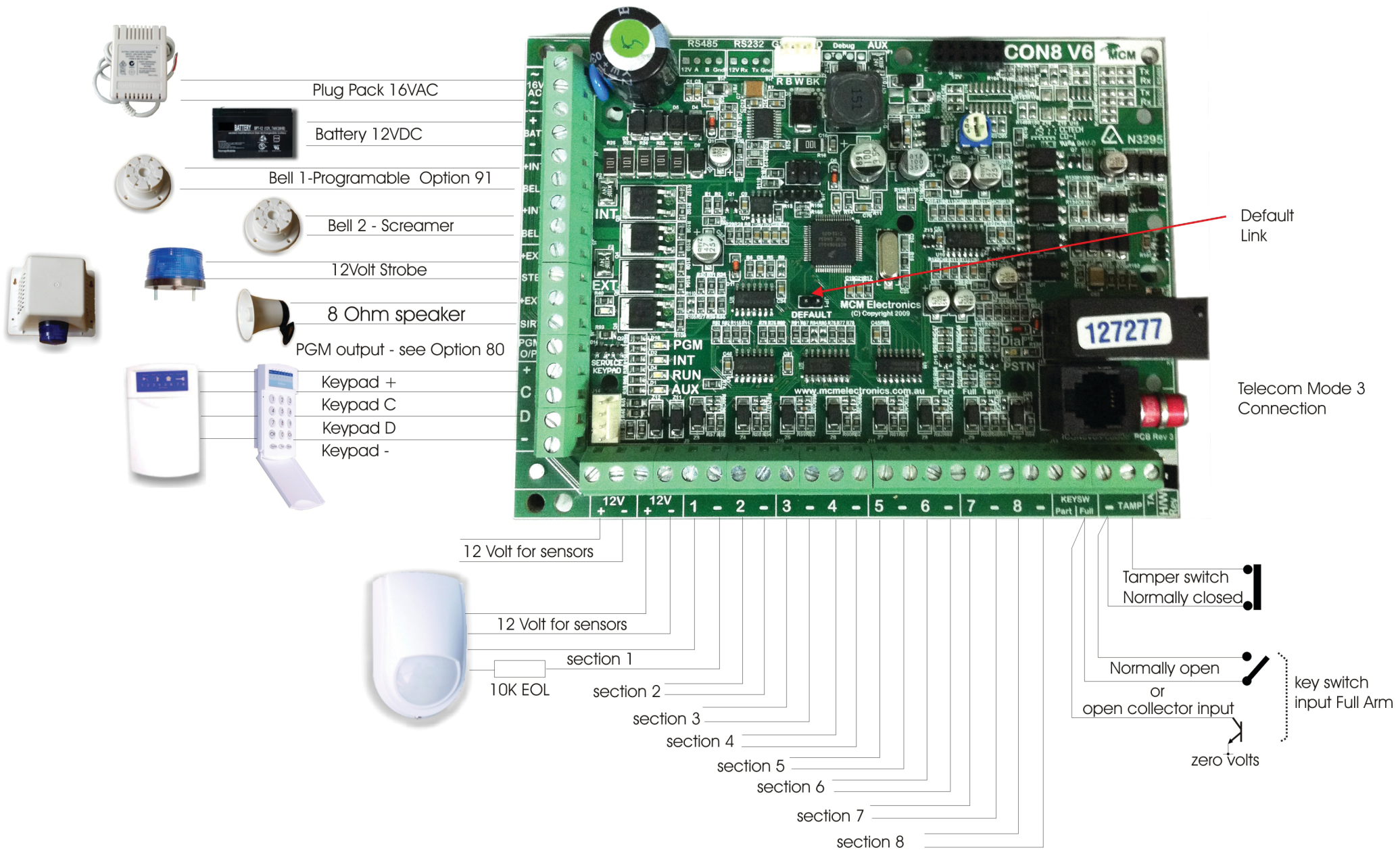
Function that that are different from ICON8

Function 47 panic is disabled by default (new police requirement)
Function 66 SMS phone number 3 (version 8.02+)
Function 67 new options 2, 5 and 6 are for GSM and SMS reporting
Function 69 new options to enable more frequent test reports
Function 89 Single digit arming now sends CID quick arm code 408
Function 91 options 1 and 2 now flashes strobe as well
Function 93 the new keyswitch input can now be individually programmed

New Functions

Function 66 SMS phone number 3
Function 72 line fail reporting options
Function 78 AC fail reporting options
Function 78 Strobe timeout options
Function 80 options to setup OP1 (programable output) for example
kiss off, line fail, report fail,
keyfob button 3, keyfob button 4,
chime output, sms output control,
system armed.
Function 87 Miscellaneous options...
Tamper setup,
GSM fail report,
Test Report on GSM ring (after 30s)
Panel programming change report.

Function 88 SMS reporting options


Plug Pack 16VAC
Battery 12VDC
Bell 1-Programable Option 91
Bell 2 - Screamer
12Volt Strobe
8 Ohm speaker
PGM output - see Option 80
Keypad +
Keypad C
Keypad D
Keypad -
CON8 V6
MCM Electronics
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DEFAULT
Default Link
Telecom Mode 3 Connection
127277
PGM
INT
RUN
AUX
PSTN
12V + -
12V + -
1 - 2 -
3 - 4 -
5 - 6 -
7 - 8 -
KEYSW Part Full
- TAMP
12 Volt for sensors
12 Volt for sensors
section 1
10K EOL
section 2
section 3
section 4
section 5
section 6
section 7
section 8
Tamper switch
Normally closed
Normally open
or
open collector input
zero volts
key switch
input Full Arm

Inputs

Inputs 1 to 16	Are 10K monitored inputs, with a response time of over 400 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.
Tamper	a non monitored or 10k input for the box tamper... Note ..the Link next to the Tamper input is connected accross the Tamper input and can be used to bypass this input if not used.
Keyswitch Part	(AIN2) a non monitored input (or 10k) that can be used to connect to a radio receiver to Partial Arm the system
Keyswitch Full	(AIN1) a non monitored input (or 10k) that can be used to connect to a radio receiver to Fully Arm the system
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 INT PTC Ressettable fuse. Between up to 1.1A can be delivered to load depending on other loads, eg. siren, strobe. The new onboard switching regulator is rated at 1.5 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 to approx 13.7v
Bell1	Output (timed) to DC screamers, fused via INT PTC fuse. May 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.
Bell2	Output (timed) to drive DC screamers, fused via INT electronic auto resetable PTC fuse. This bell2 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 EXT PTC fuse.
Ext sir	Timed 0utput to drive 1 x 8 ohm speaker rated at 10 watts, fused via EXT PTC fuse.
OP1	OP1 Open Collector 100mA output protected via a 100R resistor. Switches to ground when activated. See function 80 to select the use of this output.
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. RMA Supplier Reference Number N3295.
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
Service Keypad	a connector that allows technician to program directly with plugon keypad connector follows keypad layout... + C D -

Indicators on the PCB

Run — This LED indicates that the micro-controller is operating and must always be flickering.

Dial — This LED, located adjacent to the dial relay, will light when the dialler is in its reporting sequence (line looped) and will extinguish when reporting is completed.

OP1 — This LED indicates when the OP1 output is active for an event as per the programming of Function 80

INT, EXT & AUX
These LEDs indicate there is power available on respective outputs, when one of these LEDs are out, there may be a short on the relevant output

Initialization - FACTORY DEFAULT

There are 3 ways to initialize the panel to factory defaults
1. Enter program mode and use Function 90
2. Power the panel up with any button pressed on the keyboard for 3 seconds.
3. Power the panel up with the default pins shorted on the PCB (do not leave link across default pins)

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 waiting for handshake) before dialling next attempt.

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. The OP1 output will trigger if Function 80 option 5 is selected.

The STATUS LED on the keypad will turn on during the sequence until it has completed, this includes during the 5 minute wait period.

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, 82.
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 all other settings to default 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 now 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 function number again. Program mode will auto exit in approx 10mins.

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

Funct #	Function	Defaults	
00	Master Code	218572	
01	User code 1	1111	
02-30	User code 2 to User code 30	Nil	
40	Exit time	60 secs	
41	Entry time	30 secs	
42	Siren time	5 min	
43	Partial Mode isolates	Nil	
47	Keypad Panic audible	Disabled	
49	Exit and Entry sections	Sections 1 + 2	
50	Exit and Handover sections	Nil	
51	Partial Exit / Handover sections	Nil	
52	24 hour inputs	Nil	
54	Disable sirens on first keypress	Enabled	
55	Silent sections	Nil	

Communications Functions

60	Account number	Nil	
61	Down - Load phone number	Nil	
63	Open / Close reports	Enabled	
64	Phone number one	Nil	
65	Phone number two	Nil	
66	Phone Number three (SMS reporting)	Nil	
67	Reporting format	Contact I.D.	
68	Report restorals	Enabled	
69	No. days between test reports	7days	
70	Checksum reporting	Enabled	
71	Report isolates	Enabled	
72	Report line fail	Disabled	
73	Delay till first test report	12 Hours	
74	Keypad Duress On / Off	Disabled	
75	Auto - Isolation	Disabled	
75	Multi - break sectors	Nil	
77	Report AC mains fail	Enabled	
78	Strobe timeout	Disabled	
89	Single digit arming	Nil	

Special Functions

80	OP1 Programmable output	Kiss-off	
81	RF module	Disabled	
82	RF Keyfob programming	Nil	
83	RF Keyfob isolate	Nil	
84	Chime sections	Nil	
87	Miscellaneous	NA	
88	SMS Reporting (Version 8.02+)	NA	
90	Default to factory		
91	Bell output type	Normal Bell	
92	Control dialler/Slave dialler	Control dialler	
93	Keyswitch option	Disabled	
94	Siren speed	Medium	
95	Arming lockout	Disabled	
96	Download configuration	Master/Tech Code	
98	Rearm enable- status on power up	Disabled	
99	Technician code	218067	

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

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

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

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
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 - 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	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 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)
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
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 & Remote Panic Audible

Default - Disabled

Description :
This function determines whether the keypad panic activation (holding the ON and the OFF keys depressed at the same time for 3 seconds) or keyfob panic activation (holding buttons 1 & 2 on the remote keyfob momentarily) will cause the sirens to sound in addition to reporting to the monitoring company, only report or disabling the panic function.

Options : (Single digit entry required)
0 = Panics disabled (keypad & remote)
1 = Silent Panic (report only)
2 = Audible Panic (Sirens) and report.

Example : While in program mode (Program LED flashing)

Key Sequence		Operation
47	-	Enter Function No.
1	-	Enter Option (Panics 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 Default - non

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

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

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.
02	-	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 :
Display and change which sections will have exit / entry delay in Partial mode.

Options : (Two digit entry required per sector)
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		Operation
51	-	Enter Function No.
03	-	Enter Option (Sector 3 is now Partial Exit/Entry sector)
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 :
Display and change which sections will operate as 24 hour inputs.

Option : (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
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.
0	-	Enter Option (0 = Sirens are not silenced)
On	-	Store Entry

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

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

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

Function 63 - Open/Close reports - Yes / No.

Default -Send open /close

Description :

Selects whether open / close reports are sent or not.

Options : (Single digit entry required)

1 Open / Close sent
0 No Open / Close sent.

Example : While in programmode (Program LED flashing)

Key Sequence		Operation
63	-	Enter Function No.
0	-	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 - Phone number 3 (for SMS mode - function 88)

Default - None

Description :

This phone number is the alternative number used by the panel when reporting via SMS with the iGSM **..Version 8.02 + only**

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
66	-	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 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	Ademco high speed
1	NA
2	SMS reporting (ph # 1,2,3)
4	Contact I.D. single account number.
5	GSM Only (PSTN isn't used)
6	GSM Backup (PSTN primary)

Notes:

In GSM only mode, the panel will make 3 attempts on the primary via GSM and 3 attempts on the secondary. There is no 5 minute between primary and secondary attempts during GSM only mode.
In GSM backup mode, the panel will make 3 attempts on the primary via PSTN then 3 attempts on the primary via GSM...If unsuccessful the panel will wait 5 minutes...then make 3 attempts on the secondary via PSTN. then make 3 attempts on the secondary via GSM. If the line has failed during the first dial attempt of the primary it will immediately dial via GSM. If unsuccessfull, it will follow the normal dialing sequence for the secondary irrespective of whether the line has failed, and so it will begin dialing via the PSTN. ie the lines ok (PSTN,GSM,PSTN,GSM), if the line has failed (GSM,PSTN,GSM)

Example : While in program mode (Program LED flashing)

Key Sequence		Operation
67	-	Enter Function No.
4	-	Enter Option (4 = Ademco Contact ID)
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)

1	Report restorals
0	Do 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 - 7 days

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

Options : (Single digit entry required)
1 to 7 = period in **days** (0 disabled)
8 = **4hr** test report
9 = 1hr test report

Example : While in program mode (Program LED flashing)

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

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

Function 70 - Report Using Checksum

Default - Using checksum

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)
1 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.
0	-	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 72 - Report Line Fail

Default - Enabled

Description :
If enabled the control panel will report a Line Fail if the voltage across the line has fallen below 10V for 72 seconds. When the line has restored for a period of 12 seconds, a restoral is sent.

Options : (Single digit entry required)
0 - Line Fail reporting disabled
1 - Line Fail reporting enabled

Note:
The Fire (now the FAULT) led on the keypad will give a double flash when the line has failed

Example : While in program mode (Program LED flashing)

Key Sequence		Operation
72	-	Enter Function No.
1	-	Enter Option (1 = Report line fail)
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

Description :
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

Example : While in program mode (Program LED flashing)

Key Sequence		Operation
73	-	Enter Function No.
3	-	Enter Option (3 = 12hrs)
On	-	Store Entry

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

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)
1 Duress reports enabled
0 Duress 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 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 enabled
0 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

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 1)
02	-	Enter Option (02 = sector 2)
On	-	Store Entries

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

Function 77 - Report AC Mains Fail

Default - Enabled

Description :
If enabled, this function will allow AC Mains Fail reporting

Options : (Single digit entry required)
0 - AC Mains Fail reporting disabled
1 - AC Mains Fail reporting enabled

Note:
When Mains Fail reporting is disabled, the AC fail detect is also disabled, this means the power led will not flash when there is no AC power

Example : While in program mode (Program LED flashing)

Key Sequence		Operation
77	-	Enter Function No.
0	-	Enter Option (0 = AC Mains Fail Reporting disabled)
On	-	Store Entry

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

Function 78 - Strobe Timeout

Default - Disabled

Description :
This function sets how long the strobe will be active after an alarm is generated

Note :
When disabled 0 the strobe output will remain active until the system is disarmed.

Options : (Single digit entry required)
0 - Disabled (Strobe stays on till disarmed)
1 - 5 min
2 - 10 min
3 - 30 min
4 - 1 hr
5 - 2 hrs
6 - 3 hrs
7 - 6 hrs
8 - 12 hrs
9 - 24 hrs

Example : While in program mode (Program LED flashing)

Key Sequence		Operation
78	-	Enter Function No.
2	-	Enter Option (2 = Strobe Timeout 10 minutes)
On	-	Store Entry

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

Function 80 - OP1 Programmable Output

Default - Kiss-off received

Description :
Program the option that will activate the low current output.

Note :
The line fail timer does not operate when programmed for GSM only (Function 67 = 5) therefore the output will not activate

Options : (Single digit entry required)

0 - Output disabled
1 - Kiss-off (the output will activate for 750msec on every kiss of received from the monitoring center)
2 - Line Fail (activates the output when the line fails, follows the line fail timer restoral ie.12sec)
3 - Remote button 3 (Momentary - activates the output for 750msec when button 3 is pressed from a fob programmed in the IconRF Module)
4 - Remote button 4 (Toggle - activates the output when button 4 is pressed, and de-activates the output when button 4 is pressed a second time)
5 - Report Fail (If after 6 dialling attempts the control panel is unable to send an event to the monitoring enter, the output will activate. The output will restore after the transmission of a successful message.
6 - Chime Output (activates the output for 750msec when a chime zone programmed in function 84 is trigggered)
7 - SMS controlled output Sending an output command to the panel when the GSM module is attached will toggle the output. The output command format is as follows [**][XXXX][O][5][T][##] where XXXX is a valid user code
8 - GSM Fail - GSM not registered (output will occur after 5 minutes of no registration on the network. (E352)
9. Panel Secure\Panel Armed

Example : While in program mode (Program LED flashing)

Key Sequence		Operation
80	-	Enter Function No.
4	-	Enter Option (Button 4 activates the OP1 output)
On	-	Store Entry

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

Function 81 - RF Module Enable

Default - disabled

Description :
This function, if enabled, enables the iRIS RF Module to communicate with the iRIS16 via the expansion slot. Reports Contact-ID code 407 when armed or disarmed

Options : (Single digit entry required)

0 - RF Module disabled
1 - RF Module enabled

Notes: Keyfobs programmed in the ICONRF Module have the following operation.

Button		
1	-	Full Arm
2	-	Partial Arm
3	-	Momentary OP1 Output (if programmed in function 80)
4	-	Toggle OP1 Output (if programmed in function 80)
1 & 2	-	Panic (if programmed in function 47)

Example : While in program mode (Program LED flashing)

Key Sequence		Operation
81	-	Enter Function No.
1	-	Enter Option (1 = ICON RF Module 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 82 - RF Keyfob Programming

Default - No remotes learnt

Description :
This function, will allow programming of key-fobs into the ICON RF Module.
To initiates learn press the 0 key, the first available sector will flash (if no fobs are learnt already this will be sector 1) press any button on the remote, the keypad will beep once then press the button a second time, if succesful the keypad will sound 3 beeps and the sector will become solid. Enter 0 to learn another fob, the next available sector will flash or press On to save and exit. Keyfobs that are already learnt can be tested while in the function by pressing the button on the keyfob, the corresponding sector light will flash and the keypad will beep for 750msec. To Delete all remotes press the Isolate key followed by On.

Options : (Single digit entry required)
Enter 0 to initiate Learn mode
Enter Isolate followed by On to delete all remotes

Note:
The total number of keyfobs that can be learnt is 7. Individual remotes cannot be deleted.
Learning an 8th keyfob, will overwrite the 7th keyfob. It does not overwrite the 1st keyfob.
If learn is unsuccessful the keypad will give a long beep and the sector led will stop flashing.
If a learnt fob is learnt in a second time....it will simply overwrite itself. It does not take up another location or overwrite an existing fob

Example : While in program mode (Program LED flashing)

Key Sequence		Operation
82	-	Enter Function No.
0	-	Enter Option (0 = Initiates Keyfob Learn)
First press	-	Press any button on the remote
Second press	-	Press any button on the remote a second time to learn
On	-	Store Entry (Stores the status of the remotes learnt, learnt remotes are stored in the ICON RF Module as soon as the sector light becomes steady, this means if you press OFF rather than On, the remote will still operate...but it wll not show in Function 81 as being learnt until the learn sequence is initiated a second time)

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

Function 83 - RF Keyfob Isolate

Default - No Keyfobs Isolated

Description :
If a keyfob is lost or to prevent access of a particular keyfob, enter the corresponding sector from 1 to 7.
Isolated fobs are denied access to arm or disarm the system only, they are not deleted from the RF module.

Options : (Single digit entry required)
Any sector or combination of sectors from 1 to 7

Example : While in program mode (Program LED flashing)

Key Sequence		Operation
83	-	Enter Function No.
3	-	Enter 3 (isolates keyfob 3)
5	-	Enter 5 (isolates keyfob 5)
On	-	Store Entry

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

Function 84 - Chime Sections

Default - No Chime Sections

Description :
This function will allow sections to trigger the keypad beeper for 1 second when in the disarm state.

Options : (Single digit entry required)
Any sector or combination of sectors from 1 to 16

Note :
Function 80 option 6 can be used to activate the OP1 output when a chime section is triggered.
Chime zones will still sound an alarm when fully or partial armed

Example : While in program mode (Program LED flashing)

Key Sequence		Operation
84	-	Enter Function No.
07	-	Enter 7 (7 = Section 7 is Chime)
On	-	Store Entry

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

Function 85 - Add wireless sensors

Comming soon

Function 86 - Delete wireless sensors

Comming soon

Function 87 - Miscellaneous options

Section LED	**ON** (Flashing)	**OFF** **Default - 4,5 & 8 On**
1	Disable Tamper Input	Tamper enabled
2	Tamper is Silent	Tamper is Audible
3	Tamper armed in ON and Part Mode	Tamper armed 24hours
4	GSM fail report enabled	GSM fail report disabled
5	Send test report on GSM ring enabled	Send test report on GSM ring disabled
6	International dialing mode enabled	International dialing mode disabled
7	reserved	
8	Panel program change report enabled	Panel program change report disabled

Notes....

Option 1 – Tamper is disabled, the AUX does not flash for an alarm or show if the tamper is unsealed. The tamper does not report. The tamper is still disabled irrespective of the programming of option 3. The tamper does not activate the sirens, bells or strobe.

Option 2 – Tamper is silent, the tamper operates the same way as audible tamper, the flashing of AUX led in alarm, the solid AUX led when the tamper is unsealed after acknowledge (arm or disarm) is exactly the same. No Sirens, Strobe or Bell outputs are activated when this option is enabled.

Option 3 – The tamper only becomes active in ON or Part mode.
Tamper input (Auxilary LED) willl not display unsealed condition when system is not armed
If the tamper is unsealed when arming, the AUX led will be solid (auto isolated) until sealed.
If unsealed when arming, it will not generate an alarm.

To generate an alarm the tamper must be sealed first then unsealed.
If the tamper is sealed when arming, then when it is unsealed it will generate an alarm & report immediately. If the tamper is in alarm while the system is armed and has not sealed when the system is disarmed it will not show the tamper as being unsealed until it is armed again.

Option 4 – GSM Fail reporting enabled.
GSM Fail reporting (function 87 = 4) and GSM fail output (function 80 = 8).
GSM fail will occur after 5 minutes of no registration after which it will report an E352 to the base station if programmed in function 87 & activate the OP1output if programmed in function 80.

The GSM fail algorithm is biased towards its current state, meaning if it's registered (GSM OK) then changes to unregistered the algorithm will steer itself towards staying registered and if it's unregistered (GSM FAIL) and changes to registered the algorithm will steer itself towards staying unregistered. This is designed to make the algorithm more reliable and less prone to false reports, and to ensure only a true fail or restore condition is detected. The GSM fail restore checks for 3 minutes the registered state AND 1 minute of signal above 7 and will report a R352.

NOTE.....

The **FIRE led on the keypad will indicate GSM fail** in addition to PSTN fail.
A Single flash indicates GSM fail.
A Double flash indicates PSTN fail .
A Solid FIRE led indicates both GSM fail & PSTN fail.

Function 88 - SMS Phone number options

Section LED	**ON** (Flashing)	**OFF**	**Default**
1	SMS to PH 1 ON	SMS TO PH 1 OFF	ON
2	SMS to PH 2 ON	SMS TO PH 2 OFF	ON
3	SMS to PH 3 ON	SMS TO PH 3 OFF	ON
4	SMS CMD from Ph 1 Enabled	SMS Cmd from Ph 1 Disabled	OFF
5	SMS CMD from Ph 2 Enabled	SMS Cmd from Ph 2 Disabled	OFF
6	SMS CMD from Ph 3 Enabled	SMS Cmd from Ph 3 Disabled	OFF
7	SMS CMD Restricted to Ph1,2 & 3	SMS Cmd any mobile number is accepted	OFF
8	Send CMD & SMS response	Sent response for CMD only	ON

Notes:
Option 4,5 & 6 has no effect while option 7 is off. When option 7 is on, options 4,5 & 6 need to be programmed to accept SMS commands from the phone no's in Functions 64,65 & 66. When option 8 is on, SMS command response and SMS reports are sent to the mobile that sent the CMD . When option 8 is off, only SMS responses are sent to the mobile no. Only the numbers programmed in Function 64.65.66 will receive the SMS report. The limitation of option 8 when disabled is if a CMD is sent by SMS to arm/disarm the panel and then armed/disarmed from the keypad there is no event sent by SMS even though the event has occured from the keypad and not by SMS.

SMS Reporting Notes:
SMS Buffer will allow between 29 - 42 events to be transmitted in one SMS, the number of events in each SMS depend on the size & number of each individual event message. For eg. Only 29 arm/disarm by keyswitch reports would fit in one SMS Vs 42 zone 1 - 8 alarms & restorals. If the no of events exceeds that of the buffer then the 2nd and 3rd numbers will receive only the events upto the size of the buffer between 29 - 42 events. In this case, the last event in the SMS may be partially incomplete. The 1st number is not restricted by the buffer therefore ph 1 will receive all the events generated by the panel. The network or mobile phone may split the SMS into 1 or more messages depending on the size of the SMS.

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 a quick arm report code 408 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.
1	-	Enter Option (1 = single digit arming 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 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...this can be done by shorting the DEFAULT link on the motherboard

Example : While in program mode (Program LED flashing)

Key Sequence		Operation
90	-	Enter Function No.
On	-	Panel will default to Factory defaults

Installer will automatically be exited from program mode when this function is entered and will have to re-enter program mode using the default Technician code (218067 and the On key)

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
1 - Normal Bell Output + Arm/Disarm Chirps
2 - Panel Secure
3 - 24 Hour input in Alarm
4 - Smoke Detector Power

Notes :
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 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

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

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)
0 - Control Dialler
1 - Slave Dialler

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 enable the **full arm** and **part arm** keyswitch inputs.
To arm panel into Partial mode ground the part keyswitch input. To arm panel into Secure mode ground the full keyswitch input.
To disarm panel remove ground.
The keyswitch inputs are normally open (non-monitored) and do not require a 10K EOL resistor.
When any keyswitch option is programmed strobe flashes for arm and disarm are enabled automatically

Options : (Single digit entry required)

0 - No Keyswitch fitted
1 - Latched keyswitch (close = arm)
2 - Momentary closed arm/disarm keyswitch
4 - Momentary closed arm only keyswitch
5 - Momentary open arm/disarm keyswitch
6 - Momentary open arm only keyswitch

The keyswitch inputs will report CONTACT-ID 409 when triggered. They no longer report USER 31 open/close as per previous ICON8 versions.

Example : While in program mode (Program LED flashing)

Key Sequence		Operation
93	-	Enter Function No.
2	-	Enter Option (keyswitch inputs are momentary)
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
94	-	Enter Function No.
3	-	Enter Option (3 = Faster than default)
On	-	Store Entry

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

Function 95 - Arming Lockout

Default - Arming enabled

Description :
This function may be used to prevent the user from being able to arm the panel

Options :
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 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

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

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

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 :
0 = Do not retain 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 Function No.
218067	-	Enter Option (Tech code = 218067)
On	-	Store Entry

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

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
137 = Tamper Alarm
305 = System Reset
351 = PSTN line Fail
352 = GSM Fail
406 = Cancel by User
407 = RF Remote Arm/Disarm
408 = Quick Arm
409 = Open/Close by keyswitch
306 = Panel Programming changed
309 = Battery Test Failure
311 = Battery Missing/Dead
601 = Manual test report
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

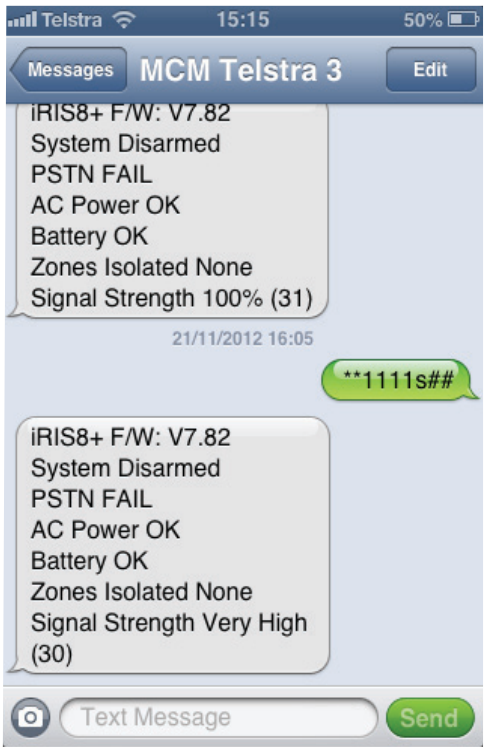
SMS Commands [**][UUUU][XXX][##]

(available when GSM or SMS formats are enabled Function 67 = 2, 5 or 6

** = is the header…all commands start with 2 asterisks
UUUU = is a valid user code that is programmed in the panel
XXX = is the command can be 1 to 3 characters long
= is the footer….all commands must end with 2 hashes

Status	Status = **1111S##	;Request Status

The response will show

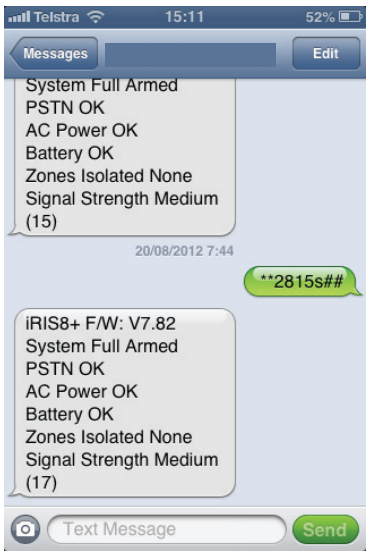


Software version
Panel Arm/Disarm status
PSTN status
AC power status
Battery status
Zones isolated
GSM signal stregnth

Arm/Disarm	Full Arm = **1111A##	;Full arm the panel
	Part Arm = **1111P##	;Partial arm the panel
	Disarm = **1111D##	;Disarm the panel
Isolate	Isolate = **1111IA 1,2,3,4,5,6,7,8##	;Isolates section 1 – 8 and full arms
	Isolate = **1111IP 1,2,3,4,5,6,7,8##	;Isolates section 1 – 8 and part arms
Output Control	Turn ON OP1 = **1111O1T##	;Turn on OP1 output. T = Toggle
	Turn OFF OP1= **1111O1T##	;Turn off OP1 output. T - Toggle

Note:
- **Both upper case and lower case letters are supported.**
- **To control the OP1 output via SMS program Function 80 = 7.**
- **To control the OP1 output use the letter 'O' not digit zero '0'**
- **No spaces between characters…..**however the isolate command will support one space after the command and before the first section number.

System Status Examples [**][UUUU][S][##]



System Status	**Status = **1111S##**		
Firmware version	iRIS8 F/W: V7.82	iRIS8 F/W: V7.82	iRIS8 F/W: V7.82
Arm/Disarm Status	System Status Disarmed	System Status Full Armed	System in ALARM, Zones 2
PSTN Status	PSTN OK	PSTN Failed	PSTN Disabled
AC Power	AC Power OK	AC Power Failed	AC Power Not Connected
Battery	Battery OK	Battery Low	Battery OK
Isolates	Zones Isolated NONE	Zones Isolated 02,08	Zones Isolated 03
GSM Signal/Reg	Signal Strength 100% (31)	Signal Strength Excellent (28)	Signal Strength Very Poor (4)

Example SMS's received….

*1111S##	;Invalid Command	(only 1 asterisk)
**1112S##	;Invalid User Code	(1112 is not programmed in the panel)
**1111x##	;Invalid Command	(x is an invalid command)
**1111S ##	;Invalid User Cmd Format	(has a space after the S command)
**1111A##	;System Armed by User 1	
**1111A##	;System Already Armed	
**1111P##	;System Partial Armed by User 1	
**1111P##	;System Already Partial Armed	
**1111d##	;System Disarmed by User 1	
**1111a##	;System Not Armed, Zones 6 Open	(assuming zone 6 is open)
**111101t##	;OP1 Output Not Programmed	(Function 80 isnt programmed for SMS control)
**111101t##	;OP1 Output On	
**111101t##	;OP1 Output Off	

Other Features

- **CHIME**	activates keypad buzzer for one second when a chime zone is unsealed.
- 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. At default Keyboard Panic is disabled. To enable keyboard panic program function 47. If programmed with a 1, the keyboard panic is silent and will only report to the monitoring centre. If programmed with a 2 the keyboard panic will report as well as being audible.
- 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. Mains fail can be disabled by programming a 0 in Function 77. When mains fail is disabled, the power led will remain steady during mains faill and will not report mains fail or mains fail restoral.
- LINE FAIL	Line fail is automatically detected by the control dialler. When line fail has been detected for approx 60 + seconds the fire (FAULT) LED on the Keypad will start giving a double flash. When the line has restored the fire LED will turn off after 10 seconds. If line fail reporting is required program a 1 in function 72. Line fail reporting will follow the operation of the fire LED.....meaning a line fail will be reported after 60 seconds and a line fail restoral after 10 seconds.
- GSM FAIL	GSM Line fail is automatically detected by the system. When GSM line fail has been detected for approx 5 mins, the FIRE (FAULT) LED on the Keypad will start giving a single flash. When the GSM has restored the fire LED will turn off after 3 mins. If line fail reporting is required program a 4 in function 87. Line fail reporting will follow the operation of the fire LED...
- 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.

iRIS 16 Enhancement and versions

IRIS16 Software Version