

Solution 16i



Security Systems

EN | Quick Start Guide
Security System

BOSCH

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The transmit level from this device is set as a fixed level and because of this there may be circumstances where the performance is less than optimal. Before reporting such occurrences as faults, please check the line with a standard telepermitted telephone.

Warnings

- 1) This product must be installed by a qualified and licensed security installer.
- 2) This product may not perform as expected if installed incorrectly.
- 3) Some features of this product require a working telephone line to operate and telephone communication service provider charges are applicable.
- 4) Australian standard AS 2201 requires regular service by qualified and licensed security persons and regular user testing. Please consult your security alarm company for further details.
- 5) Incorrect programming of parameters can result in operation contrary to what may be desired.
- 6) Leave the mains adapter plugged in at all times.
- 7) Leave the telephone line plugged in at all times under normal conditions.

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FEATURES

Listed below are the main features of the Solution16i Control Panel.

- ❖ Individual Box Tamper Circuit Monitoring
- ❖ Report Via Email
- ❖ Telephone Line Busy Tone Detect
- ❖ RAS Intelli-connect® CLI Caller Line Identification
- ❖ Daylight Savings
- ❖ Senior Watch
- ❖ System Maintenance Interval Reminder
- ❖ System Weekly Test Reminder
- ❖ Area Inactivity Interval
- ❖ Temporary Pin Code
- ❖ Dual Reporting
- ❖ Dual Redundant Reporting
- ❖ Alarm Report Abort/cancel Options
- ❖ 8 Programmable Holiday Calendars
- ❖ 8 Programmable Schedules
- ❖ 16 On-board Zones (Exp To 16 Zones)
- ❖ Fire Alarm Verification
- ❖ 48 Pin Codes
- ❖ 4 Supervised High Power Digital Outputs
- ❖ Outputs Expandable to 8 via Relay Module
- ❖ Supervised Siren Driver
- ❖ Partitionable To 4 Areas
- ❖ Dialler Reports SIA, Contact ID, SMS and Email Formats
- ❖ Supervised LAN Keypads (Maximum 8 Keypads)
- ❖ Keyswitch Input
- ❖ 256 History Event Memory
- ❖ EMI / Lightning Transient Protection
- ❖ ICON interface with Text Prompts
- ❖ Programmable Via Solution Link Software (Remote/Direct)
- ❖ Telephone Line Fail Monitor
- ❖ Time Executed Functions
- ❖ 60 Output Event Types
- ❖ Exit Restart
- ❖ Expansion Module Supervision
- ❖ DTMF Remote Control of Areas and Outputs
- ❖ Remote Arming
- ❖ Designed and Manufactured in Australia
- ❖ Three Year Warranty

OVERVIEW

Zones

The Solution16i control panel provides up to 16 separate zones of protection. Zone programming determines the panel's response to open/short and tamper conditions on the zone loop.

Areas

The control panel supports up to 4 separate areas. You can assign all zones to a single area, or you can assign each zone to a combination of different areas.

You can arm and disarm the control panel by area, alternatively, you can arm and disarm several areas at the same time.

Dialler

The control panel has a built-in dialler to send reports to the receiving party (ie. Security company monitoring station, mobile phone etc).

Keypads

You can connect a maximum of 8 fully supervised keypads to the control panel. Proximity Keypads are also available.

History Log

The control panel can store up to 256 history events from all 4 areas. All events are stored in the log, even if they are programmed not to report via the on-board dialler.

You can view the control panel's history log via keypad, serial printer (optional), or by connection of a personal computer (direct/remote) using the Solution Link upload/download software.

Programming

You can program the Solution16i either by a keypad or using a personal computer using the Solution Link upload/download software.

Solution Link Version V1.10 or higher is required to program this panel.

ABOUT THE PANEL

Mounting The Cabinet

The cabinet should be mounted via 4 (screws/bolts) through the 4 mounting holes in the base. Ensure that the enclosure is mounted on a solid, flat, vertical surface such that the base will not flex when tightened. Cabinet dimensions are shown below for both cabinet sizes.

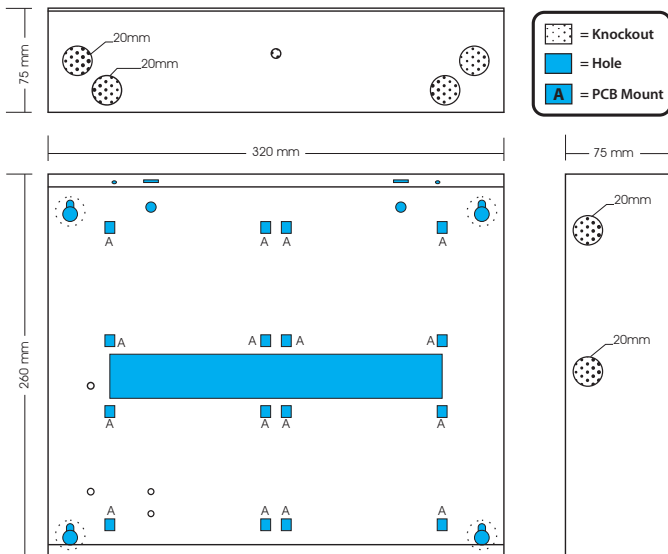


Figure 1: Standard Cabinet Dimensions

Cabinet Module Spaces

The standard cabinet has space for 2 large modules or 4 small modules while the optional large cabinet has space for up to 4 large modules or 8 small ones. The cabinets have been designed so that any combination of large and small units can be neatly mounted together on the wall.

Each module is mounted to the cabinet using 4 or more clip in standoffs. The clips can be inserted from the rear of the cabinet before mounting it to the wall, or from the front of the cabinet after it has been mounted. Both methods should be performed using your finger tips to prevent damage to the standoff. (Standoffs and screws are supplied with each module).

All compatible add on modules will mount on these spaces. See below for list if modules which can be added to the ICON panel.

Module	Space Occupied
Solution16i Control Panel	2 Module Spaces
CM704 Zone Expander	1 Module Space
CM710 Output Expander	1 Module Space
CM720 LAN Power Supply	1 Module Space
CM195 RF Receiver Expander	1 Module Space

Table 1: Expansion Options

Use the above table to help determine which size cabinet you will require for the job.

On some export models, module space 3 will not be available as the mains transformer mounts in this location.

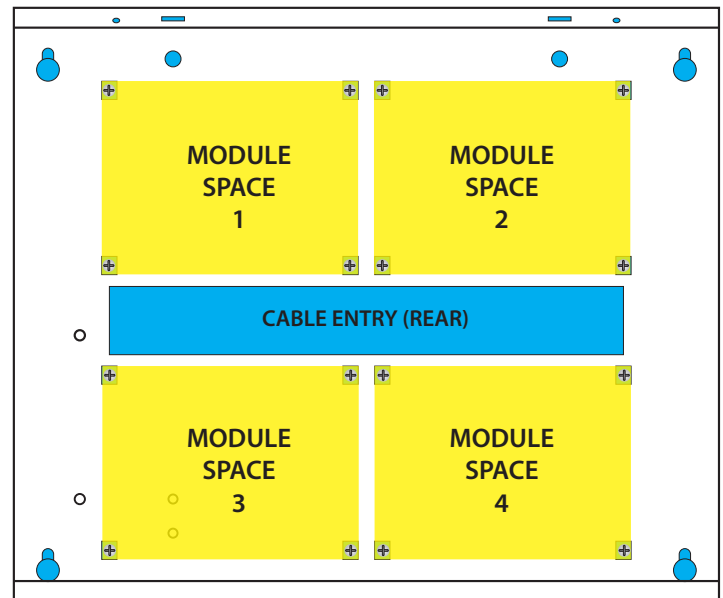


Figure 2: Standard Cabinet - Module Spaces

Panel LED Indicators

The Solution16i PCB has two LED indicators (Dialler and Status LED's) which display the following information.

Condition	Meaning
Off	Offline
On	On Line (Dialling/Answered)
Flashing	Incoming Call

Table 2: Dialler Indicator LED

Condition	Meaning
Off	Check Power Connection
On	Reset Required
Flash Once Every 2 Seconds	OK
Flash Fast	AC or Battery Trouble

Table 3: Status Indicator LED



During factory defaulting the Status and Dialler LED indicators will be on steady for approximately 15 seconds.

WIRING DIAGRAMS



Figure 3: N/C No EOL Zone



Figure 7: N/O No EOL Zone

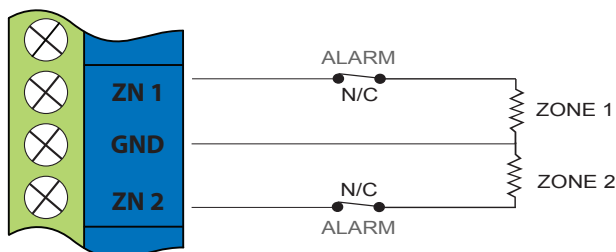


Figure 4: N/C Single EOL Zone

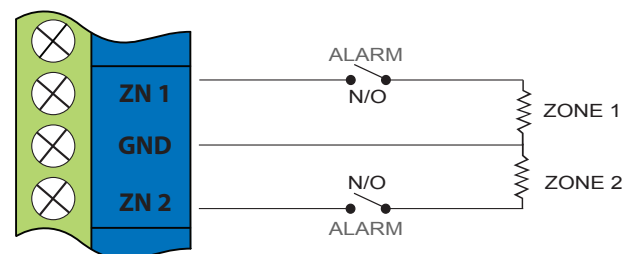


Figure 8: N/O Single EOL Zone

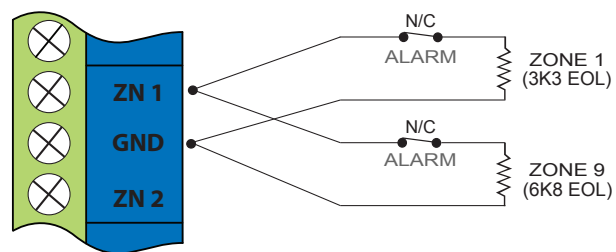


Figure 5: N/C Split EOL Zone

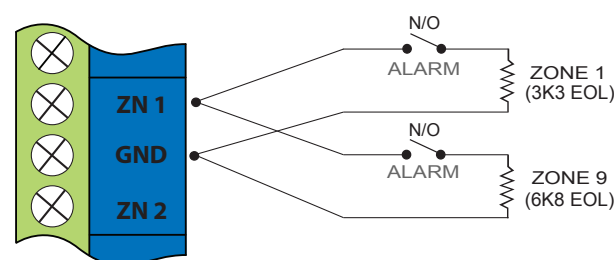


Figure 9: N/O Split EOL Zone

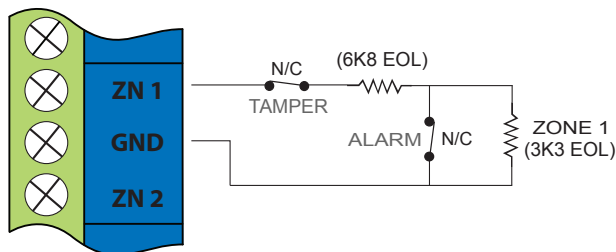


Figure 6: N/C Zone With Tamper

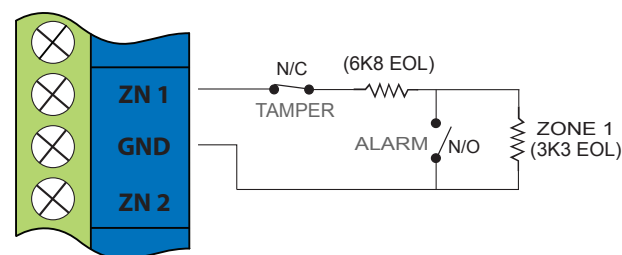


Figure 10: N/O Zone With Tamper



The Above diagrams display zone configurations using Normally-Closed Alarm contacts and Normally-Open Alarm Contacts. When using Normally-Open Alarm Contacts you must select Inverted Seal for each zone in MENU 3-1-8. A shorted loop is a tamper condition for all EOL zone configurations.

EOL Resistor Colour Code (4 Band)

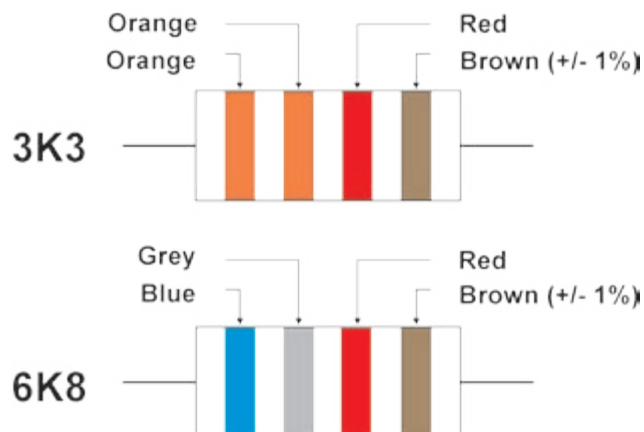


Figure 11: EOL Resistor Colour Chart

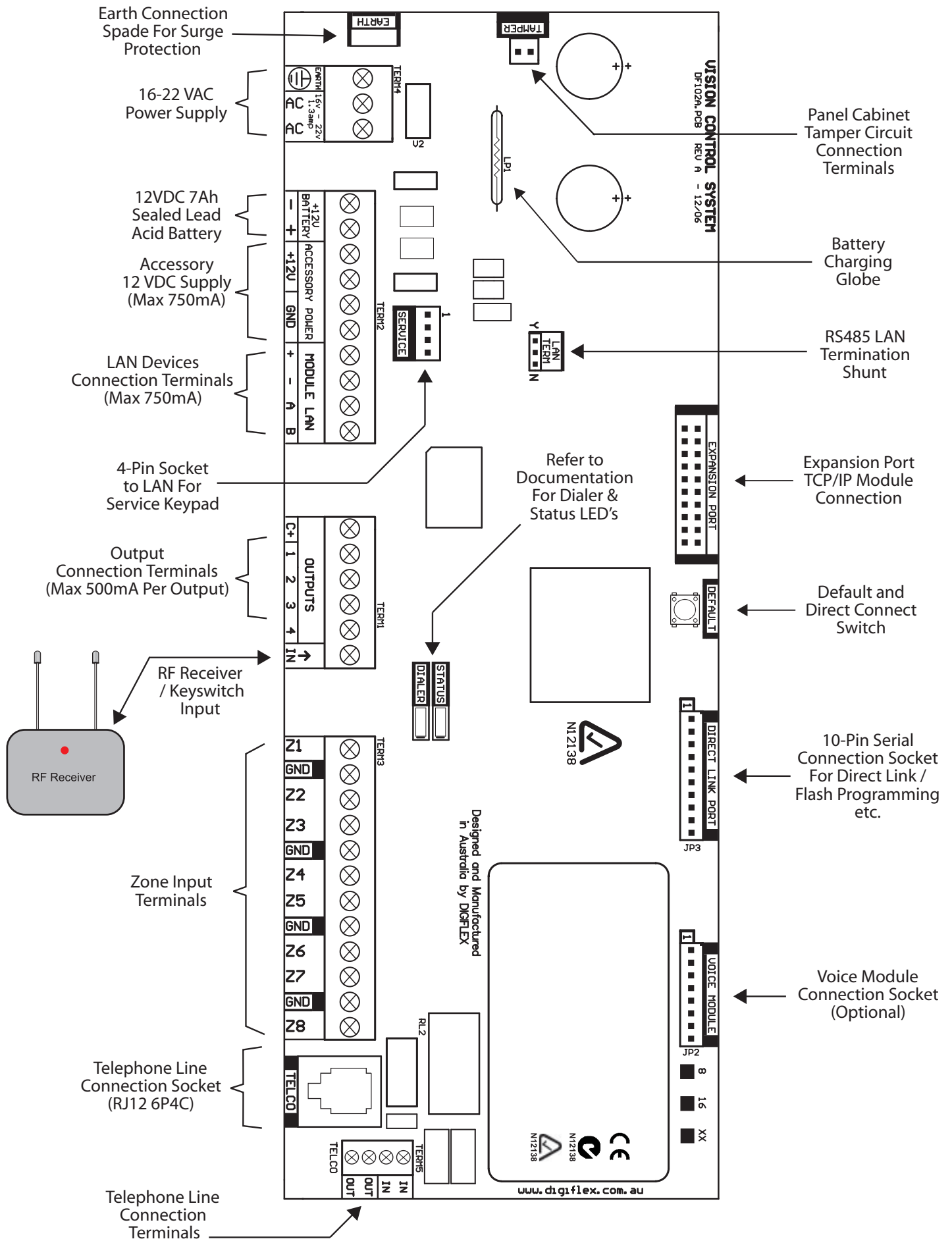


Figure 12: Solution16i Board Layout

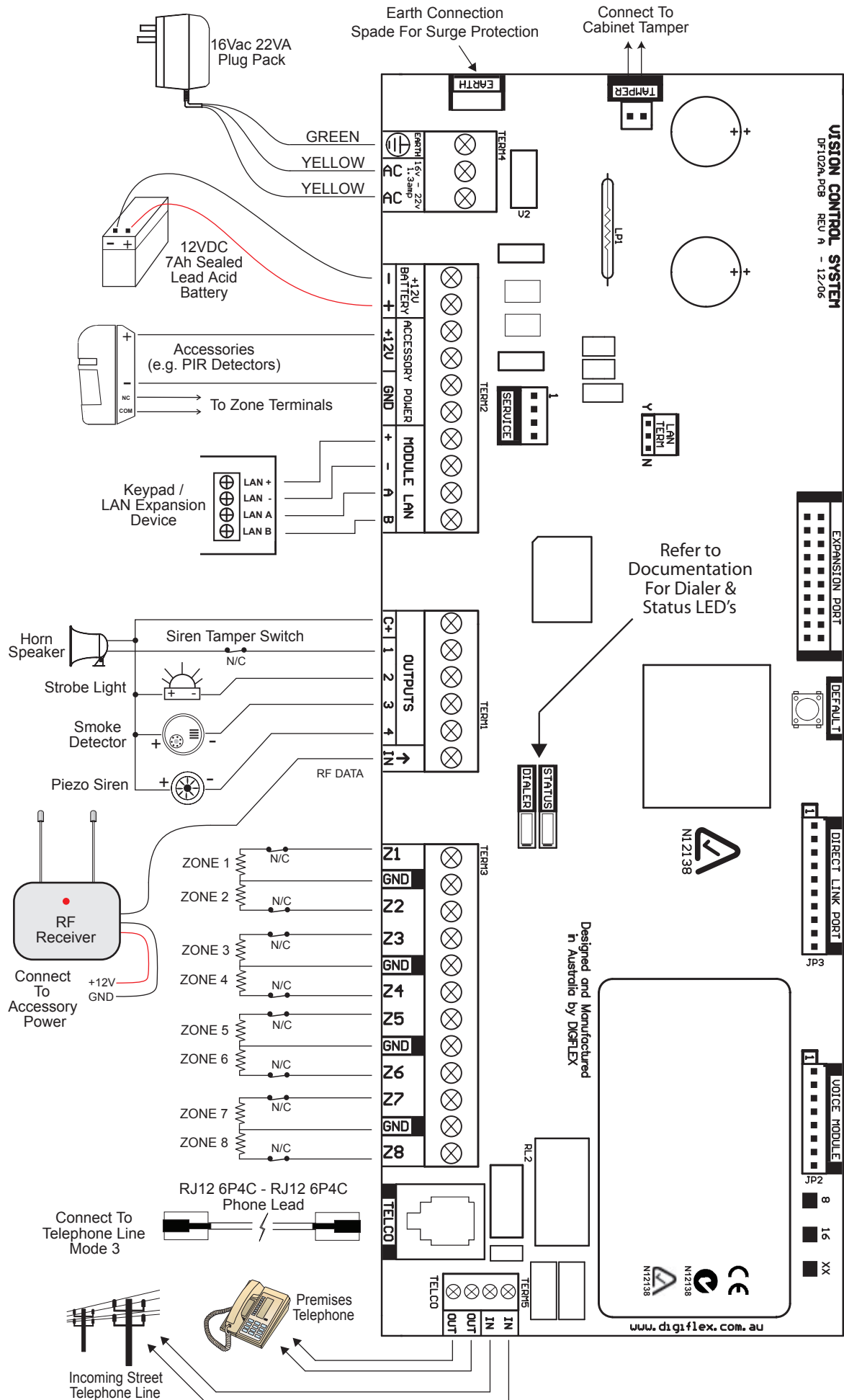


Figure 13: Solution 16i Connection Diagram

Terminal Descriptions

Nº	Name	Description
1	Earth	Earth wire from this terminal is connected to the Mains earth.
2	~ (AC)	Connection of the A.C. plug pack transformer
3	~ (AC)	
4	BAT (-)	Negative and positive connections to the stand-by battery. 12 VDC / 7AH
5	BAT (+)	
6	+12V	These terminals are used to power detectors and LAN devices up to 750 mA.
7	+12V	
8	GND	
9	GND	
10	LAN +	These terminals are used to power LAN devices up to 750 mA.
11	LAN -	
12	LAN A	Connect the LAN A data terminal of any LAN device (eg. Keypads, expansion boards) to this terminal. The control panel supports up to 300 m of 24/0.20 (18 AWG) wire on these terminals.
13	LAN B	Connect the LAN B data terminal of any LAN device (eg. Keypads, expansion boards) to this terminal. The control panel supports up to 300 m of 24/0.20 (18 AWG) wire on these terminals.
14	COMM+	Alarm power capable of providing a maximum of 2 Amp (+). This terminal is PTC Fuse protected.
15	OUT 1	Fully supervised programmable, open collector outputs capable of driving (sink) loads upto 1 amp for sirens, strobes etc
16	OUT 2	
17	OUT 3	
18	OUT 4	
19	INPUT	Programmable Input for RF Receivers, Keyswitch and other devices.
20	ZN 1	Zone 1 and 9 sensor loop input (+).
21	GND	Common (-) for Zone 1 & 2 sensor loop.
22	ZN 2	Zone 2 and 10 sensor loop input (+).
23	ZN 3	Zone 3 and 11 sensor loop input (+).
24	GND	Common (-) for Zone 3 & 4 sensor loop.
25	ZN 4	Zone 4 and 12 sensor loop input (+).
26	ZN 5	Zone 5 and 13 sensor loop input (+).
27	GND	Common (-) for Zone 5 & 6 sensor loop.
28	ZN 6	Zone 6 and 14 sensor loop input (+).
29	ZN 7	Zone 7 and 15 sensor loop input (+).
30	GND	Common (-) for Zone 7 & 8 sensor loop.
31	ZN 8	Zone 8 and 16 sensor loop input (+).
32	IN	These terminals are used to connect the telephone line from the street.
33	IN	
34	OUT	These terminals are used to connect the premises telephones.
35	OUT	

Table 4: Terminal Block Descriptions

Board Connectors

Connector	Description
Service	This socket allow you to connect a service Keypad to the panel during installation.
Tamper	This socket is used to connect the cabinet tamper switch to the panel.
Default	This push button is used to reset the control panel back to factory default and to enable Direct Link Programming Mode.
Voice Module	This is used to connect the optional Voice Command Module (CM100).
Direct Link Port	This socket is used to connect the Direct Link Interface (P/N CM900) or the Flash Programmer Interface (P/N CM901) to the panel.
Telco	This is a RJ12 6P/4C connector that allows you to connect the control panel to the PSTN telephone line.
Expansion Port	Used to connect addition modules to the control panel. eg TCP/IP interface.
LAN Term	Used to terminate the RS485 LAN.

Table 5: Board Connector Descriptions

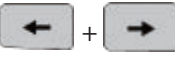
ABOUT THE KEYPAD

The ICON Keypad has 20 keys or buttons. The buttons allow you to input instructions and navigate the menu screens as required. Some buttons have a secondary function which is activated by holding them down for two seconds.

Each button's function is described below.

Keypad Button Functions

Key	Description
	The numeric keys allow you to enter you numbers when required
	Use the [MENU] and the numeric keys to enter commands. The [MENU] key is also used to go back one level when navigating through menus or to exit a programming location without saving changes.
	The [ON] key allows you to turn an area or output on. To turn all areas on at the same time when the system has been partitioned, press and hold the [ON] key for two seconds.
	The [PART] key allows you to turn an area Part On. This key can also be used to bypass a zone or multiple zones when you press and hold for two seconds.

Key	Description
	The [OFF] key allows you to turn an area or output off. To turn all areas off at the same time when the system had been partitioned, press and hold the [OFF] key for two seconds.
	The [OK] key allows you to save any changes and exit the command.
	The [MAIL] key allows you to read stored mail. This key can also be used to initiate a dialler test when you press and hold for two seconds.
	The [←] key allows you to move the cursor left when programming text or telephone numbers.
	The [→] key allows you to move the cursor right when programming text or telephone numbers.
	The [↑] key allows you to navigate through menus or to toggle characters when programming telephone numbers.
	The [↓] key allows you to navigate through menus or to toggle characters when programming telephone numbers. Pressing The [↓] key will display current trouble conditions when the area that the keypad is displaying is disarmed.
 for 2 sec	Pressing the [→] and [↑] keys together and holding them down for 2 seconds will trigger a Panic alarm. If programmed the sirens will sound and the monitoring station will be notified.
 for 2 sec	Pressing the [←] and [→] keys together and holding them down for 2 seconds will trigger a Fire alarm. If programmed the sirens will sound and the monitoring station will be notified.
 for 2 sec	Pressing the [↑] and [↓] keys together and holding them down for 2 seconds will trigger a Medical alarm. If programmed the sirens will sound and the monitoring station will be notified.

KEYPAD EMERGENCY ALARM TRIGGER'S

Key Sequence	Event Triggered
 Hold for 2 seconds	Keypad Fire Alarm
 Hold for 2 seconds	Keypad Panic Alarm
 Hold for 2 seconds	Keypad Medical Alarm

Table 6: Keypad Emergency Alarm Trigger's



Figure 14: Keypad Emergency Alarm Trigger's

Keypad Setup

The Solution16i control panel can have a maximum of 8 keypads connected via the LAN terminals. Each keypad must be set to a unique address before they will operate.

Each keypad needs to be assigned to a home area via MENU 6-1-3. This sets the area the keypad will display and control by default. Keypads can be locked to a home area or allowed to roam or move between areas.

When the system is powered up, any keypads which have not been assigned a home area will be automatically set to home area 1.

Set each keypad address using the table below as a guide.



Only 1 Keypad can be assigned to each address. All Keypads are supplied from the factory set to address 1. (OFF-OFF-OFF).

Keypad Address Select

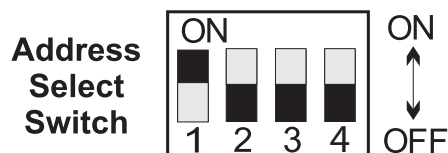


Figure 15: Keypad DIP Switch Address Settings

Keypad DIP Switch Address Settings				
Keypad To Address	S1	S2	S3	S4
Keypad 1	Off	Off	Off	Off
Keypad 2	On	Off	Off	Off
Keypad 3	Off	On	Off	Off
Keypad 4	On	On	Off	Off
Keypad 5	Off	Off	On	Off
Keypad 6	On	Off	On	Off
Keypad 7	Off	On	On	Off
Keypad 8	On	On	On	Off

Table 7: Keypad DIP Switch Address Settings

Status Icons / LED's

The following table lists the function of each of the ICON Symbols and LED Indicators on the ICON Keypad Display.



Figure 16: LCD Display Showing All ICONs

Icon	Status	Meaning
AREA 	The keypad can display which areas (1 – 4) are turned on or off via the Area Icon Indicators. This programmable option can be disabled in MENU 6-1-4.	
	On	Area is turned All On or Part On
	Off	Area is turned Off
	Flashing Fast	Alarm occurred in the area
 POWER	On	System power is normal
	Flashing	System power is missing
 FIRE	Flashing	A fire alarm is active
	Off	No fire alarm
	On	Fire alarm in memory (Turn the area All On and Off to Clear).
 SERVICE	On	The existing service or trouble condition has been acknowledged.
	Off	No service or trouble conditions exist
	Flashing	A service or trouble condition is present that has not been acknowledged.
 PART	On	The area is turned Part On.
	Off	The area is not turned Part On.
 OFF	On	The area is turned Off
	Off	The area is turned All On or Part On
 ON	On	The area is turned All On
	Off	The area is turned Off

CHIME 	On	Chime Mode is On
	Off	Chime Mode is Off
PHONE 	On	Phone Line in Use
	Off	Phone Line not in use
Red LED	On	All On
	Flashing	Alarm
Green LED	On	Area is off.
	Flashing	Area not ready to turn on
Red & Green LED	Flashing	Installer programming mode is active.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	On	Zone Open or Unsealed
	Off	Zone Closed or Sealed
	Flashing	Zone in Alarm or Alarm Memory

Keypad Tones

All keypads emit several distinct tones and display text to alert you to system events. The volume of the keypad tones can be adjusted in MENU 6-1-0.

Type	Meaning
Fire Alarm Tone	When a fire zone sounds an alarm, the keypad will sound 3 seconds on and 2 seconds off (repeat).
Burglary Alarm Tone	When a burglary zone activates while your system is turned on, your keypad emits a continuous siren tone. It sounds for the time set by your security company.
Trouble Tone	When a system component is not functioning properly, your keypad sounds 4 fast short beeps followed by a 5 second pause (repeat).
Key Press Tone	Pressing any key on the keypad sounds one short beep, indicating that the key press is accepted.
Entry Delay Tone	When you enter the premises through a zone programmed for entry delay, the keypad sound a Hi/Low tone to remind you to turn off the area. If the area is not turned off before the entry delay expires, an alarm condition will sound and a report may be sent to your alarm company.

Type	Meaning
Exit Delay Tone	After you turn an area All On, the keypad will sound 1 short beep every second. During the last 10 seconds fast short beeps will be heard. If you don't exit before the delay time expires and an exit delay door is faulted, an alarm occurs.
Error Tone	If you press an incorrect key, the keypad will sound a 2 second tone.
Menu Mode	The keypad will sound a Hi / Lo tone to indicate you have entered MENU Mode and a Lo/Hi tone to indicate you have exited MENU mode.
Chime Tone	The keypad sounds fast short beeps to alert you when a zone programmed for chime is faulted or unsealed.

DTMF Control Functions

Firmware version V1.10 onwards includes comprehensive DTMF control of individual areas and outputs with full user PIN and TIMER GROUP access verification.

Unlike other systems, no additional hardware or modules are required for DTMF control. To configure the desired functions see MENU 5-3-5 DTMF Options.

How to Use DTM Control

1. Once the panel answers the incoming call, if either option 1, 2, 3 or 4 in MENU 5-3-5 is enabled, then the panel will play a short welcome jingle. You now have approximately 5 seconds to enter a valid PIN and log onto the panel.

2. Enter PIN followed by the # key. If the PIN is valid the system will respond with two short beeps. If the PIN is invalid then a single long beep will be heard.

If a valid PIN is not entered in time, the panel will attempt to establish a modem connection as if connecting to the Solution Link software.

If this happens you will need to hang up for approximately 60 seconds before trying again.

3. Once validated, the following commands can be performed. See the table below. If no keys are pressed for 20 seconds then the panel will play the exit jingle before terminating the session and hanging up. Pressing ## at any time while connected will cause the panel to terminate the session.

DTMF CONTROL FUNCTIONS		
Operation	Command	Response
Quick Arm All Areas	$\boxed{0} + \boxed{\#}$	2 x Beeps
Log In OK	$\boxed{U} \boxed{S} \boxed{E} \boxed{R} \boxed{P} \boxed{I} \boxed{N} + \boxed{\#}$	Welcome Jingle
Log In Failed	$\boxed{U} \boxed{S} \boxed{E} \boxed{R} \boxed{P} \boxed{I} \boxed{N} + \boxed{\#}$	Long Beep

Turn Area ON	$\boxed{1} + (\text{Area N}^{\circ}1-8) + \boxed{1} + \boxed{\#}$	2 x Beeps (Low - High)
Turn Area OFF	$\boxed{1} + (\text{Area N}^{\circ}1-8) + \boxed{2} + \boxed{\#}$	2 x Beeps (High - Low)
Turn Output ON	$\boxed{2} + (\text{Output N}^{\circ}1-16) + \boxed{1} + \boxed{\#}$	2 x Beeps (Low - High)
Turn Output OFF	$\boxed{2} + (\text{Output N}^{\circ}1-16) + \boxed{2} + \boxed{\#}$	2 x Beeps (High - Low)
End Session	$\boxed{\#} + \boxed{\#}$	Exit Jingle

Table 8: DTMF Remote Control Functions

DTMF EXAMPLES

Each example below shows the log on step for clarity. In practise is only necessary to log on once per DTMF control session.

To turn Area 1 ON enter the following

$\boxed{2} + \boxed{5} + \boxed{8} + \boxed{0} + \boxed{\#} = \text{Log ON}$

$\boxed{1} + \boxed{1} + \boxed{1} + \boxed{\#} = \text{Arm Area 1}$

To turn Output 10 ON enter the following

$\boxed{2} + \boxed{5} + \boxed{8} + \boxed{0} + \boxed{\#} = \text{Log ON}$

$\boxed{2} + \boxed{1} \boxed{0} + \boxed{1} + \boxed{\#} = \text{Turn Output 10 ON}$

To turn Output 12 OFF enter the following

$\boxed{2} + \boxed{5} + \boxed{8} + \boxed{0} + \boxed{\#} = \text{Log ON}$

$\boxed{2} + \boxed{1} \boxed{2} + \boxed{2} + \boxed{\#} = \text{Turn Output 12 OFF}$



If the DTMF Quick Arm option is enabled then it is possible to remotely arm all areas without logging onto the panel.

Simply enter 0 + # following the welcome jingle.

Make sure that the phone being used to remotely control the panel is set to transmit DTMF tones when keys are pressed during the call. This option is disabled by default on some phones.

Expansion Modules

CM704B Zone Expander Module

The Solution16i panel includes support for 1 x CM704 - 8/16 Zone Expansion module. This allows for 16 individual zones when using Alarm and Tamper (4 state) monitoring as well as allowing zones to be located in two separate locations within a building.

All zones follow the global EOL setting in MENU 3-4-0 regardless of whether they are on the panel or on the expander module.

Zone numbering is automatically assigned by the panel during power up depending on the module configuration found and the EOL value selected.



When using the CM704B you should not select Split EOL monitoring. If you do the zones on the expander will not be available.

For example single EOL is selected and 1 x CM704B Zone Expander is fitted, then Zones 1 - 8 will be located on the main panel and Zones 9 - 16 will be located on CM704B.

Fitting and RF receiver to the panel allows any zone to be programmed as a wireless zone.

ZONE CONFIGURATION TABLE				
Device Type	Single EOL	Alarm + Tamper	Split EOL	RF Zones
Solution16i Panel	8	8	16	Up to
CM704B Expander	8	8	N/A	16 zones
Total Zones	16	16	16	Max

Table 9: Zone Configuration Using Expanders

Once a zone has been programmed to be a wireless type the corresponding hardwired zone input is automatically disabled. No EOL resistor is required.



Currently the panel supports only supports CM704 zone expanders. The CM705 is not supported.

CM710B Output Expander Module

The Solution16i panel includes support for 1 x CM710 4 Way Relay Output Expander.

Adding a CM710 adds an additional 4 relay outputs to the panel. The maximum output capacity is 8. The output expander can be located with the control panel or in separate part of the building and then wired back to the control panel via the 4 wire LAN to minimise cable requirements.

CM720B Power Supply Module

The Solution16i panel includes support for 1 x CM720B - 1 Amp LAN Power Supply Module which can be used to provide LAN voltage regeneration as well as supplying power to other modules, Intrusion Sensors Door Strikes etc.

The CM720B module can be located with the control panel or in separate part of the building and then wired back to the control panel via the 4 wire LAN to minimise cable requirements.

The CM720B module is designed to run off a standard plug pack transformer and includes a built in battery charger suitable for charging 12V 7Ah batteries.

As with all LAN modules, the status of the CM720B is constantly being monitored and reported to the control panel via the system LAN.

CM195 Multi RF Receiver Interface

The CM195 Multi Channel Radio Interface allows up to three RF receivers to be simultaneously connected to the control panel. This can be used to provide greater in building radio

coverage on large or RF unfriendly installations.

Large factories, houses or multi level installations where RF sensors are required, can benefit by having multiple receivers located throughout the building as they can provide you the best possible coverage and a level of redundancy when more than one receiver's coverage area overlaps another.

The CM195 intelligently analyses all signals passed to it by each receiver before sending the appropriate signal to the control panel for processing. Duplicated transmissions sent by more than one RF receiver are filtered to prevent multiple signals being triggered for the same event.

Expansion Module configuration

LAN module support for the Solution16i panel requires that each module type is set to address 1. For example if a system has 1 x CM704B and 1 x CM720B installed, they should both be addressed as 'module 1'.

The panel will only look for new devices following a power cycle and only if the LAN is not secured. To add new devices, make sure the LAN is unsecured before powering the system down.

Set the module Address DIP switches accordingly and complete wiring as per instructions. Once complete re-power the system. To interrogate devices connected to the LAN you can use LAN Status command, MENU-6-0-0

LAN MODULE ADDRESSING				
Module	SW 1	SW 2	SW 3	Address
CM704B	OFF	OFF	OFF	1
CM720B	OFF	OFF	OFF	1
CM710B	OFF	OFF	OFF	1
Each different module type should be configured to address 1.				

Table 10: LAN Module Addressing

PROGRAMMING OVERVIEW

The Solution16i Control System incorporates a ICON style user interface and includes a text display to show all programming data in an easy to read format. Once programming mode is entered you will see a number of menu options in the display and these may vary depending in the user authority level.

All user and master code user options include brief text prompts to simply operation and reduce the need to refer to the manual.

Installer programming options are accessed using location numbers with text prompts showing the current location number and the data currently programmed.

Entering Programming Mode

To enter installer program mode enter, PIN + [MENU].

The default Installer PIN is 1234.
The default Master Code PIN is 2580.

The Red and Green LED indicators on the keypad will flash to confirm Installer programming mode is active.



All areas must be disarmed with no active alarms.
To disarm all areas enter the Installer PIN and hold the [OFF] Key for 2 seconds.

Exiting Programming Mode

Press and hold down [MENU] key for 2 seconds.



You can also select End from the menu and press [OK] to exit.

Programming Structure

The Solution16i system utilises a mixture of text menus and location numbers to simplify programming for both end users and installers.

All programming options can be accessed by entering the appropriate location or menu number followed by the [OK] key, however only a limited number of text menus are provided. As the installer you have access to both programming methods.

Most end user functions can be accessed via the text menu which simplifies operation and reduces training time.

- 1) Enter Program Mode. [1234 + MENU]
- 2) Enter the desired location number to program and press [OK]. Follow the prompts.
- 3) Alternatively, press [MENU] and use the arrow and OK keys to navigate through the text menus.
- 4) At any time you are free to enter the location you wish to move to followed by the [OK] key.
- 5) To exit programming navigate to the end option and press [OK], alternatively hold the [MENU] key down for 2 seconds.

Key	Description
←	Scrolls Cursor Left
→	Scrolls Cursor Right
↑	Scrolls Cursor Up
↓	Scrolls Cursor Down
OK	Enter Menu Options or Saves Changes
MENU	Go Back One Level, Hold Down to Exit Programming Mode, Abort Changes
0 to 9	Enter Data Value, Toggle Bit Option
ON	Turn On Functions, Accept Data
OFF	Turn Off Functions, Clear to End of Line

Table 11: Keys Used During Programming

Interpreting the Text Display

The ICON keypad text display includes space for up to 6 characters to be displayed at one time. To simplify programming, some text menus have been abbreviated.

The following table list the upper case, numbers and some of the special the characters which can be displayed on the keypad. See the Character Set Table at then end of this document for a complete character listing.

A = A	N = N	+ = +	0 = 0
B = b	O = O	, = ,	1 = 1
C = C	P = P	- = -	2 = 2
D = d	Q = Q	+ = +	3 = 3
E = E	R = R	- = -	4 = 4
F = F	S = S	[= [	5 = 5
G = G	T = T	] =]	6 = 6
H = H	U = U	SP =	7 = 7
I = I	V = V	# = #	8 = 8
J = J	W = W	= = =	9 = 9
K = K	X = X	@ = @	
L = L	Y = Y	* = *	
M = M	Z = Z	/ = /	

Figure 17: Text Characters Which Can Be Displayed.

Programming BIT Options

TheSolution16i system includes a number programming locations which are know as option bit locations. Each of these has up to 8 different parameters which can be selected.

To program BIT locations, enter the location number followed by the [OK] key. The system will then display the currently selected options in that location.

The numbers 1 to 8 are used to represent the option's state. For example if the number is ON then the coresponding option is enabled, if the number is OFF then the option is disabled.

To toggle the option state, simply press the number on the keypad coresponding to the option. When finished press the [OK] key to save any changes.

You should refer to the IRG or Installation manual for detailed explanation of the various options.

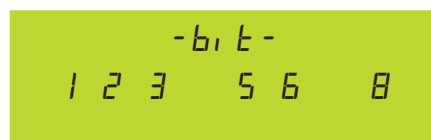


Figure 18: Sample Option Bit Menu Display

To abort programming changes, press the [MENU] key.

Programming Text Locations

Text descriptions are available for Area Name, Zone Name, User Name, Schedule Name, Holiday Name Prox Reader Name and Output Name. Each name can have a maximum of 16 characters.

These names are not displayed on the keypad, however they are used when reporting in SIA+ , SMS or Web reporting formats. They are also stored in the history log and can be uploaded and downloaded to the panel using the RAS software.

The system includes default text for all locations.



Figure 19: Area Text Programming Display

When programming text, each numeric key represents a different group of characters.

Pressing the same numeric key repeatedly will step you through the available characters assigned to the key. The text key layout is the same as most phones. Refer to the table below for detailed character information.

Key	Characters Assigned To Each Numeric Key								
1	.	,	?	!	-	&	`	1	
2	A	B	C	a	b	c	2		
3	D	E	F	d	e	f	3		
4	G	H	I	g	h	i	4		
5	J	K	L	j	k	l	5		
6	M	N	O	m	n	o	6		
7	P	Q	R	S	p	q	r	s	7
8	T	U	V	t	u	v	8		
9	W	X	Y	Z	w	x	y	z	9
0	SPACE	0							
↑	Scroll Up through entire character list								
↓	Scroll Down through entire character list								
←	Move to left one character position								
→	Move to right one character position								
OFF	Clear from cursor position to end of line								

Table 12: Text Keypad Character Set

Once the desired character is displayed press the right arrow key to move to the next character position.

To save programming changes, press [OK], else press [MENU] to exit without saving. If the text string is longer than can fit on the keypad then you can use the [←] and [→] to scroll left and right. Pressing the off key will clear the rest of the line from the current cursor position.

Programming Example - Change Zone 3 Name

- 1) Enter Program Mode.
[1234 + MENU]
- 2) Select the text location to program, Zone Name for example,
[MENU 3-1-0] + [OK]

- 3) When prompted and the zone number
[Zn =] 3 + [OK]
- 4) The system will display the current text. The current cursor position is indicated by the flashing character. To move the cursor, use the left and right arrow keys.
- 5) Enter the required text and then press [OK] to save when finished.



The following additional special characters are available by scrolling using the up and down arrow keys. + - @ # \$ " & % * : () / < > =

Programming Telephone Numbers

To program, select primary telephone number under [MENU] 5-1-1 then enter the digits of the telephone number and press the [OK] key to save. Use the up and down arrow keys to program special characters (*, # and Pause).

If the number is longer than can fit on the keypad display then you can use the [←] and [→] to scroll left and right to view the entire number. It is also possible to edit a single digit of the number by moving the cursor to the location with the [←] and [→] keys.

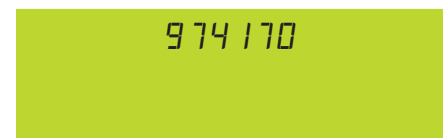


Figure 20: Telephone Number Programming Display

Key	Characters Assigned To Each Numeric Key
0 to 9	Enter the Digits 0 to 9
↑ ↓	Scroll Up through entire character list 0 - 9 • # , comma = 2 second pause
← →	Move to left or right one character position
OFF	Clear from cursor position to end of line

Table 13: Phone Number Programming

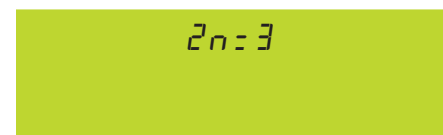
To save programming changes, press [OK], else press [MENU] to exit without saving.

Programming List Options

Enter the location (Menu) number to be programmed followed by the [OK] key.

When prompted enter the number of the Zone, User, Area, Output or Keypad to program then press the [OK] key.

Enter the required data and then press the [OK] key to finish. Press [MENU] at any time to exit without saving.





The display will flash prompting you to enter the required data value.



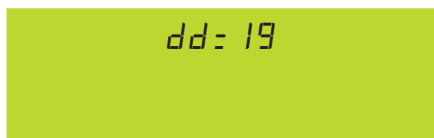
Figure 21: List Option Programming Display

Programming The Clock

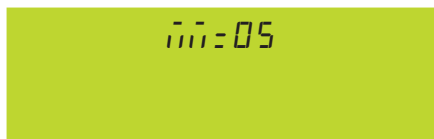
Clock programming requires the following information to be entered, dd mm yy hh mm. To accept the currently programmed data for any field, simply press the [→] to move to the next field.

Enter location 7-1-0 followed by the [OK] key. The keypad will display the currently programmed day of the month.

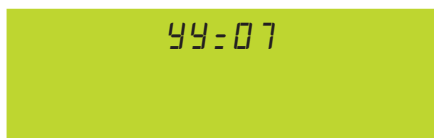
To change, enter the new day of the month. The system will automatically move to the month field.



To change, enter the new month of the year. The system will automatically move to the year field.



To change, enter the new year. The system will automatically move to the hour field.



To change, enter the hour of the day in 24hr format. The system will automatically move to the minute field.

To change, enter the minute of the hour followed by the [OK] key to exit.



Pressing OK on any field will accept all currently programmed date and time values. Time is programmed in 24 hr format.

GETTING STARTED BACK TO BASE

The following steps are the minimum requirements to get the system reporting back to base. Examples assume the panel is disarmed with no alarms and starting from factory default settings.

- 1) Enter Program mode.
[1234 + MENU]
- 2) Set Time and Date.
[MENU 7-1-0]

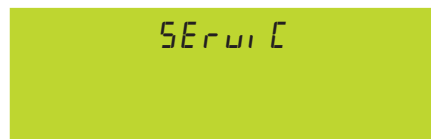
- 3) Change Default Installer PIN.
[MENU 1-5-2]
- 4) Change Default Master Code PIN.
[MENU 1-1-1]
- 5) Enter Account (client) Number, Area 1.
[MENU 2-2-0]
- 6) Enter Base Primary Telephone Number.
[MENU 5-1-1]
- 7) Enter Base Secondary Telephone Number.
[MENU 5-1-2]
- 8) Hold Down MENU Key To Exit.

SERVICE MODE

Service mode when activated disables dialler reporting, prevents all alarms and prevents all users from arming the system.

To Turn Service Mode ON

- 1) Enter Program Mode.
[1234 + MENU]
- 2) Enter,
[MENU 7-0-8]
- 3) The display will show IS OFF if service mode is off or IS ON if service mode is on.
- 4) Press the On or OFF key to change the service mode state then press [OK] to exit.



Keypads will display SERVIC on the screen when service mode is active.

DEFAULTING THE SYSTEM

Defaulting the system will reset all programming options back to the factory default setting. All programming information will be erased.

To Hardware Default

- 1) Remove All Power To The System.
AC and Battery.
- 2) Press and Hold The Default Push Button Down Then Apply Power To The System.
- 3) Release Button, The Panel Will Reset And Revert To Normal Operation When Default Is Complete.

To Software Default

- 1) Enter Program Mode.
[1234 +MENU]
- 2) Select Factory Default Option.
[MENU 7-0-4]

- 3) The Panel Will Reset And Revert To Normal Operation When Defaulting Is Complete.



Figure 22: Factory Default Display



You can disable factory defaulting using MENU 7-7-4. If factory defaulting has been disabled you *must* know the installer code to perform a factory default otherwise the system will need to be returned to your supplier for defaulting or you can purchase a CM255 Default Unlock Key which will unlock the panel in the field. Charges apply for defaulting if returned to the distributor.

DOMESTIC TEMPLATE DEFAULTS

The following table list the changes that will occur when you select domestic default.

Program Option	Domestic Default Value
All Trouble Reports	Disabled
All Bypass Reports	Disabled
All Restore Reports	Disabled
Destination 1 TX Format	Domestic Reporting
Open / Close Reports	Disabled (all areas)
System Events Route	Log Only

Table 14: Domestic Dialing Defaults Settings

DIRECT LINK PROGRAMMING

The panel can be programmed via the Solution Link Upload/Download software in either Direct Link or Remote Link modes. For Direct Link you will need a CM900 Direct Link module which connects the panels serial port to the PC.

Once the cable is connected you will need to hold down the default switch on the panel for 5 seconds to initiate the programming session. See Figure 12: for the default switch location. It is also possible to initiate the programming session via [MENU 5-0-5] Start Direct Link.

Solution Link V1.10 or higher is required to program this panel.

ZONE ARRAY

The feature allows you to view the condition or status of all zones on the panel in groups of 4 zones at a time. Use the [↑] and [↓] keys to change the group of zones to display.

The starting zone for each group is displayed at the beginning of the screen so you will always know which zones you are viewing.

Use Keys [↑] and [↓] to scroll up and down the zone bank Press [OK] or [MENU] when finished.

N= NORMAL
S = SHORTED
A= ALARM
T= TAMPER
- = DISABLED



Figure 23: Zone Array Showing Z1 to Z4

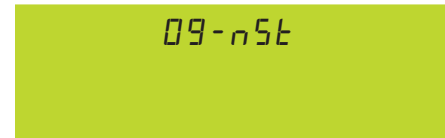


Figure 24: Zone Array Showing Z9 to Z12

In the above example screens,

N = Zone 01, 04 and 10 are Normal (Sealed)
S = Zone 02 is Shorted
A = Zone 03 is in Alarm (Unsealed)
T = Zone 12 is in Tamper Alarm (Unsealed)
- = Zone 09 is Disabled (Unused)

BASIC REPORTING REFERENCE

A complete reporting template is available on the Solution Link CD, from your distributor or from Bosch. Your base station will need to create a specific reporting template for this and other 2nd generation Solution panels.

Point ID Table	Module Description
Ur999	Installer
Ur998	Remote User
Ur001 - 256	Users
Ur000	Quick Arm
Zn301-428	User Keyfob 1 - 128
Zn891-898	Panels 1-8
Zn881-888	Keypads 1-8
Zn871-878	Ethernet 1-8
Zn861-868	GSM 1-8
Zn851-858	Output Expander 1-8
Zn841-848	Serial Expander 1-8
Zn831-838	Lan P/Supply 1-8
Zn821-828	RF Reciever 1-8
Zn811-818	Access 1-8
Zn801-808	X10 1-8
Zn781-788	Input Expander
Zn791-798	Lift 1-8
Zn001-128	Zones

Table 15: Basic Reporting Code Reference Listing

ACCESS = Access MENU	SSS = System MENU
Ch-P in = Change PIN Number	CLoC = Set the System Clock
Ch-oth = Change Other PIN Number	St-on = Set Daylight Saving On Time
urArEA = Assign Areas to User	St-off = Set Daylight Saving Off Time
AddP in = Add New PIN	H iSLoG = View History Log
AddPro = Add Prox Token	SndLoG = Send Log
AddFob = Add RF Keyfob	trbL = View System Troubles
dELP in = Delete User PIN	tSt-bA = Test Battery
dELPro = Delete User Prox	About = Displays Firmware Version
dELFob = Delete User RF Keyfob	
dEL-ur = Erase User	L000 = Location 000
ArEA = Area MENU	d= 14 = Data equals 14
ChonoF = Turn Chime Mode On/Off	A= = Enter Area Number
Ch tYP = Change Chime Mode	A= 6 = Area 6 Selected
inPut = Input MENU	oP= = Enter Output Number
StAtUS = Input Status	zn= = Enter Zone Number
bYPASS = Bypass Mode	ur= = Enter User Number
Fire-r = Reset Fire / Smoke Sensors	oP= = Enter Output Number
Ch-zn = Set Chime Zones	cP= = Enter Keypad Number
Pt2-zn = Set Part Mode 2 Zones	h iS = Max Possible number is 5
tSt-zn = Test a Zone	EntP in = Enter PIN Number
tStznS = Test All Zones	dd =22 = Date = 22nd
OutPut = Output MENU	!!! =06 = Month = June
StAtUS = Output Status	yy =07 = Year = 2007
on-off = Turn Output On/Off	P001 = Panel 1
tStS ir = Test External Siren	CP-001 = Keypad 1
tSt int = Test Internal Siren	E 148 = History Log Event 148
tStStr = Test Strobe	Ph tSt = Communication Test
d iALEr = Dialer MENU	Ch on = Chime Mode ON
SEt-Ph = Set Domestic Phone Number	Ch off = Chime Mode OFF
CFonoF = Turn Call Forwarding On / Off	U= 1.00 = Software Version 1.00
CFonPh = Call Forward On Number	t= 19C = Temperature = 19°C
CFoFPh = Call Forward Off Number	U= 13.8 = Voltage = 13.8V
CALAns = Call / Answer RAS Software	on = On
d irCon = Start Direct Connect	off = Off
CuSrEG = Customer Registration	LEAVE = Exit Now
tSt-dL = Perform Dialer Test	End = Exit Programming Mode
dEU iCE = Device MENU	date = Clock Not Set
CP-uol = Keypad Volume	dEFP in = Default PIN Trouble
CP-Con = Keypad Contrast	CAbtPr = Cabinet Tamper
CP-bl = Keypad Backlight	no tEL = No Telephone Line
CP-dEG = Set Keypad Temp Alarm	no bAt = No Battery
LAN-St = LAN Status	FA iL = Battery Test Failed
	route 1 = Comms Fail Route 1
	route 2 = Comms Fail Route 2
	no bYP = No Bypass Allowed
	EoL=no = EOL Resistor Open Circuit

Figure 25: Text Menu Examples

PROGRAMMING LOCATIONS REFERENCE TABLE

The Solution16i Panel includes a simple text menu system which makes all levels of programming extremely easy. Once a valid PIN has been entered followed by the MENU key the system will automatically determine which menus and option the user has access to and only those items will be displayed.

There are four basic grouping levels used;

- A = All (No PIN Required)
- U = User PIN Has Access
- M = Master PIN Has Access
- I = Installer PIN Has Access

The following table lists all programming locations and the authority level required to access them.

0	Commands	1	Access	2	Areas
UMI	2-0-1 Turn Area On/Off	1-0 Commands		2-0 Commands	
UMI	2-0-2 Turn All Areas On	MI	1-0-0 Erase User	AUMI	2-0-0 Area Status
UMI	2-0-3 Turn All Areas Off			UMI	2-0-1 Turn Area On/Off
UMI	2-0-4 Move To Area	1-1 PIN Codes		UMI	2-0-2 Turn All Areas On
AUMI	2-0-5 Chime On/Off	UMI	1-1-0 Change Own PIN	UMI	2-0-3 Turn All Areas Off
UMI	1-1-0 Change Own PIN	M	1-1-1 Change Other PIN	UMI	2-0-4 Move To Area
AUMI	3-0-0 Zone Status	MI	1-1-2 Add PIN	AUMI	2-0-5 Chime On/Off
AUMI	4-0-0 Output Status	MI	1-1-3 Delete PIN	UMI	2-0-6 Chime Mode
UMI	4-0-1 Turn Output On/Off	I	1-1-4 View PIN		
MI	7-1-0 Set Date & Time	1-2 Token		2-1 Area Properties	
UMI	3-0-5 Smoke Sensor Reset	MI	1-2-0 Add Token	MI	2-1-0 Area Name
UMI	3-9-0 Walk Test All Zones	MI	1-2-1 Delete Token	I	2-1-1 General Options
MI	4-9-0 External Siren Test	MI	1-2-2 Token Status	I	2-1-2 Input Options
MI	4-9-1 Internal Siren Test			I	2-1-3 Output Options
MI	4-9-2 Strobe Test	1-3 RF Keyfob		I	2-1-4 Reporting Options
MI	5-0-0 Set Domestic Number	MI	1-3-0 Add Keyfob	I	2-1-5 Strobe Trigger
UMI	5-0-1 Call/Answer RAS	MI	1-3-1 Delete Keyfob		
UMI	7-9-1 Battery Test	I	1-3-2 Test Keyfob	2-2 Reporting	
UMI	5-9-0 Test Dialler			I	2-2-0 Account Dest 1
I	7-0-8 Service Mode	1-4 User Properties		I	2-2-1 Account Dest 2
UMI	About	MI	1-4-0 User Name	I	2-2-2 Open Close Route
		MI	1-4-1 Area Assignment		
		I	1-4-2 User Options	2-9 Area Testing	
		MI	1-4-4 Timer Group	I	2-9-0 Area Watch
		MI	1-4-5 Access Assignment	I	2-9-1 User Test Interval
		I		I	2-9-2 Service Interval
		1-5 Global Properties		I	2-9-3 Test Options
		I	1-5-0 PIN Length		
		I	1-5-1 PIN Retry Count		
		I	1-5-2 Installer PIN		
		I	1-5-3 PIN Expire Time		
		1-6 Prox Reader			
		I	1-6-0 Name		
		I	1-6-1 Area Assignment		
		I	1-6-2 Access Group		
		I	1-6-3 Reader Options		

3 Inputs**3-0 Commands**

AMI	3-0-0	Zone Status
I	3-0-1	Zone Array
UMI	3-0-2	Bypass Zones
MI	3-0-3	Set Chime Zones
MI	3-0-4	Set Part 2 Zones
UMI	3-0-5	Smoke Sensor Reset

3-1 Zone Properties

MI	3-1-0	Zone Name
I	3-1-1	Zone Type
I	3-1-2	Area Assignment
I	3-1-3	Pulse Count
I	3-1-4	Pulse Count Time
I	3-1-5	Access Group
I	3-1-6	Report Route
I	3-1-7	Report Options
I	3-1-8	Zone Options

3-3 RF Zone

I	3-3-0	Add RF Device
I	3-3-1	Delete RF Device
I	3-3-2	Test RF Device

3-4 Global Input Options

I	3-4-0	EOL Value
I	3-4-1	Keyswitch Options
I	3-4-2	Input Options

3-5 PGM Input

I	3-5-0	Input Type
----------	-------	------------

3-6 Tamper Inputs

I	3-6-0	Tamper Options
----------	-------	----------------

3-9 Input Testing

UMI	3-9-0	Walk Test All Zones
UMI	3-9-1	Walk Test A Zone
I	3-9-2	Sensor Watch Time

4 Outputs**4-0 Commands**

AUMI	4-0-0	Output Status
UMI	4-0-1	Turn Output On/Off

4-1 Properties

MI	4-1-0	Output Name
I	4-1-1	Event Type
I	4-1-2	Event Assignment
I	4-1-3	Output Polarity
I	4-1-4	Timer Parameter
I	4-1-5	Output Options
I	4-1-6	Macro Group

4-9 Output Testing

MI	4-9-0	External Siren Test
MI	4-9-1	Internal Siren Test
MI	4-9-2	Strobe Test

5 Comms**5-0 Commands**

MI	5-0-0	Set Domestic Number
UMI	5-0-1	Call /Answer RAS
MI	5-0-2	Call Forward On/Off
MI	5-0-3	Check Web Email
MI	5-0-4	Email System Log
MI	5-0-5	Start Direct Link
	5-0-6	Reserved
	5-0-7	Reserved
	5-0-8	Register Customer
I	5-0-9	Register Installer

5-1 Telephone Numbers

I	5-1-0	Number Prefix
I	5-1-1	Primary Dest 1
I	5-1-2	Secondary Dest 1
I	5-1-3	Primary Dest 2
I	5-1-4	Secondary Dest 2
MI	5-1-5	Domestic Numbers
MI	5-1-6	Call Forward On
MI	5-1-7	Call Forward Off

5-2 Properties

I	5-2-0	Call Attempt Count
I	5-2-1	Dialler Options
I	5-2-2	Phone Line Options
I	5-2-3	Country
I	5-2-7	Set SMS Password

5-3 Remote Access

I	5-3-0	Call Back Number
I	5-3-1	RAS Security PIN
I	5-3-2	Log Threshold
I	5-3-3	Ring Count
I	5-3-4	RAS Options
I	5-3-5	DTMF Options
I	5-3-6	Voice Access Code
I	5-3-7	CLI Numbers
I	5-3-8	User RAS Security PIN

5-4 Dialler Reporting

I	5-4-0	TX Format Dest 1
I	5-4-1	TX Format Dest 2
I	5-4-2	Test Route
I	5-4-3	System Route
I	5-4-4	Emergency Route
I	5-4-5	Swinger Dialler
I	5-4-6	Burg Report Delay
I	5-4-7	Fire Report Delay

5-9 Comms Test

UMI	5-9-0	Send Test Report
I	5-9-1	Test Report Time
I	5-9-2	Test Report Period
I	5-9-3	Test Report Options
I	5-9-4	Test Route
I	5-9-5	Dial Number Test

6 Devices		7 System	
6-0 Commands		7-0 Commands	
UMI	6-0-0 LAN Status	UMI	7-0-0 Panel Status
I	6-0-1 LAN Secure	UMI	7-0-1 System Trouble
6-1 Keypads		UMI	7-0-2 History Log
MI	6-1-0 Volume	I	7-0-3 Domestic Default
MI	6-1-1 Contrast	I	7-0-4 Factory Default
MI	6-1-2 Backlight	I	7-0-5 Template Default
I	6-1-3 Home Area	I	7-0-8 Service Mode
I	6-1-4 General Options	7-1 Clock	
I	6-1-5 Beeper Options	MI	7-1-0 Set Date & Time
I	6-1-6 Emergency Keys	I	7-1-1 Summertime On
I	6-1-7 Access Group	I	7-1-2 Summertime Off
I	6-1-8 Lockout Time	7-2 Timers	
6-2 RF Devices		I	7-2-0 Exit Time
I	6-2-0 Receiver Options	I	7-2-1 Entry Time 1
I	6-2-1 Supervision Time	I	7-2-2 Entry Time 2
I	6-2-2 RF Device Options	I	7-2-3 Part Entry Time
I	6-2-3 Add RF Keypad	I	7-2-4 Auto Arm Pre Alert
I	6-2-4 Delete RF Keypad	I	7-2-5 Output Pre Alert
I	6-2-5 View RF Device ID	I	7-2-6 Senior Watch Time
6-3 Serial Device		7-3 Power	
I	6-3-0 Device Type	I	7-3-0 AC Options
I	6-3-1 Baud Rate	I	7-3-1 Battery Options
I	6-3-2 Flow Control	I	7-3-2 Fuse Options
6-5 GSM Modem		7-4 Siren	
6-6 Ethernet		I	7-4-0 Tone
6-7 Access Controller		I	7-4-1 Speed
6-8 X10 Device		I	7-4-2 Volume
		I	7-4-3 Swinger Siren
		7-5 Schedules (TEF)	
		MI	7-5-0 Name
		MI	7-5-1 Time
		MI	7-5-2 Day
		I	7-5-3 Function
		I	7-5-4 Index
		7-6 Holidays	
		MI	7-6-0 Name
		MI	7-6-1 Start Stop Dates
		7-7 System Options	
		I	7-7-0 General Options
		I	7-7-1 Area Options
		I	7-7-2 Keypad Idle Screen
		MI	7-7-3 Keypad Hi/Lo Temp
		I	7-7-4 Installer Options
		I	7-7-5 Language
		7-9 System Testing	
		UMI	7-9-0 Walk Test All Zones
		UMI	7-9-1 Battery Test

Table 16: Programming Locations and Descriptions

Access > Global Properties >

PIN Length MENU 1-5-0

0 = Variable 4

1 = 1 Digit 4 = 4 Digits 7 = 7 Digits

2 = 2 Digits 5 = 5 Digits 8 = 8 Digits

3 = 3 Digits 6 = 6 Digits

Enter 0 - 15 + [OK] To Program The PIN Length Option.
(*** System Wide Parameter ***)

Access > Global Properties >

PIN Retry Count MENU 1-5-1

(*** System Wide Parameter ***) 6

Enter 0 – 8 + [OK] To Program The PIN Retry Count (0 = Unlimited).

Access > Global Properties >

Installer PIN MENU 1-5-2

1 2 3 4

Use Digits 0 – 9 To Program The Installer PIN + [OK] To Save. Installer PIN Can Be Up To 8 Digits Long. (*** System Wide Parameter ***)

Access > Global Properties >

PIN Expire Time MENU 1-5-3

0 3 0

(*** System Wide Parameter ***)

DAYS

Enter Digits 0 – 255 + [OK] To Program How Many Days A Temporary PIN Is Valid.

Access > Prox Reader >

Name MENU 1-6-0

R e a d e r 1 N a m e

Use [←] and [→] Keys To Scroll the Cursor Left and Right. Use Keys [0] – [9] + [↑] and [↓] To Select Characters. When finished press [OK] To Save. Press [OFF] To Clear From The Current Cursor Position.

Access > Prox Reader >

Area Assignment MENU 1-6-1

1

Enter 1 - 8 (0 = Not Assigned) To Assign The Reader To An Area, Then Press [OK] To Save

Access > Prox Reader >

Access Group MENU 1-6-2

0

Enter 1 - 8 (0 = No Access Group) To Assign The Reader To An Access Group, Then Press [OK] To Save. Can Only Be Assigned To One Access Group

Access > Prox Reader >

Reader Options MENU 1-6-3

1	All On Arming Allowed	Y
2	Disarming Allowed	Y
3	Badging Required	N
4	Zero Exit Time	N
5	Part On Arming Allowed	N
6	Arm If Single Area User	N
7	Reserved	N
8	Reserved	N

This location is a Bit option field. Press Keys [1] – [8] to turn ON and OFF the required options. The option is selected or ON when the corresponding zone indicator is on. Press [OK] To Save when finished.

Area Programming

By default the Solution16i is configured for one area. Examples given in this document are for Area 1 only. If the system is configured for more than one area then you will be prompted on the keypad to select the area you want to work on.

Areas > Commands >

Area Status MENU 2-0-0**Turn Area On/Off** MENU 2-0-1**Turn All Areas On** MENU 2-0-2**Turn All Areas Off** MENU 2-0-3**Move To Area** MENU 2-0-4**Chime On/Off** MENU 2-0-5**Chime Mode** MENU 2-0-6

Areas > Area Properties >

Area Name MENU 2-1-0

A r e a 1 N a m e

Use [←] and [→] Keys To Scroll the Cursor Left and Right. Use Keys [0] – [9] + [↑] and [↓] To Select Characters. When finished press [OK] To Save. Press [OFF] To Clear From The Current Cursor Position.

Areas > Properties >

General Options MENU 2-1-1

1	Exit Time Restart	N
2	Reset Alarm Memory On Disarm	N
3	Duress Allowed	Y
4	Acknowledge All Faults	N
5	Single Button Arming Allowed - All On	Y
6	Single Button Arming Allowed - Part On	Y
7	Link To Common Area	N
8	Single Button Part Off	N

This location is a Bit option field. Press Keys [1] – [8] to turn ON and OFF the required options. The option is selected or ON when the corresponding zone indicator is on. Press [OK] To Save when finished.

Areas > Properties >

Input Options**MENU 2-1-2**

1	Non Sequential Handover (Entry Path)	Y
2	Pulse Count Handover Allowed	Y
3	Senior Watch	N
4	Reset Smoke On Arming	Y
5	Reserved	N
6	Reserved	N
7	Reserved	N
8	Reserved	N

This location is a Bit option field. Press Keys [1] – [8] to turn ON and OFF the required options. The option is selected or ON when the corresponding zone indicator is on. Press [OK] To Save when finished.

Areas > Properties >

Output Options**MENU 2-1-3**

1	Arm/Disarm Speaker Beeps Via RF Keyfob	Y
2	Arm/Disarm Speaker Beeps Via Keyswitch	Y
3	Siren / Strobe When Part On Allowed	Y
4	Alarm On PIN Retry Violations	Y
5	Alarm On Exit Error	N
6	Alarm On Keyswitch Tamper (Only If System Armed)	Y
7	Reserved	N
8	Reserved	N

This location is a Bit option field. Press Keys [1] – [8] to turn ON and OFF the required options. The option is selected or ON when the corresponding zone indicator is on. Press [OK] To Save when finished.

Areas > Properties >

Reporting Options**MENU 2-1-4**

1	Report PIN Retry	Y
2	Report Exit Error	Y
3	Smart Lockout	N
4	Reserved	N
5	Cancel Reports	Y
6	Reserved	N
7	Open / Close Reports For Part On	N
8	Open / Close Reports Only After Alarm	N

This location is a Bit option field. Press Keys [1] – [8] to turn ON and OFF the required options. The option is selected or ON when the corresponding zone indicator is on. Press [OK] To Save when finished.

Areas > Properties >

Strobe Trigger**MENU 2-1-5**

1	Audible Burglary Alarm	Y
2	Silent Burglary Alarm	N
3	Fire Alarm	Y
4	Arm / Disarm Flash Via RF Keyfob	N
5	Arm / Disarm Flash Via Keyswitch or PGM Input	N
6	Reserved	N
7	24-Hour Alarm	Y
8	Reserved	N

This location is a Bit option field. Press Keys [1] – [8] to turn ON and OFF the required options. The option is selected or ON when the corresponding zone indicator is on. Press [OK] To Save when finished.

Areas > Reporting >

Account Dest 1**MENU 2-2-0**

0	0	0	0	0	0	0	0	0	0	0	0
---	---	---	---	---	---	---	---	---	---	---	---

Program The Area Account Number For Destination 1 Here
(Enter digits 0 – 9 + [OK] To Save)

Areas > Reporting >

Account Dest 2**MENU 2-2-1**

0	0	0	0	0	0	0	0	0	0	0	0
---	---	---	---	---	---	---	---	---	---	---	---

Program The Area Account Number For Destination 2 Here.

Areas > Reporting >

Open / Close Route**MENU 2-2-2**

0 = Report Events To Log Only

1

1 = Report Events To Destination 1 + Log

2 = Report Events To Destination 2 + Log

3 = Report Events To Destination 1 & Destination 2 + Log

4 = Report Events To Destination 2 If Destination 1 Fails +Log

Enter 0 - 4 + [OK] To Program Which Destination 'Open' and 'Close' Reports Are Sent To.

Areas > Area Testing >

Area Watch**MENU 2-9-0**

0	1	2
---	---	---

(***) System Wide Parameter (***)

WEEKS

Enter 0 – 255 + [OK] To Program The Number Of Weeks Before Register Inactivity Event.

Areas > Area Testing >

User Test Interval**MENU 2-9-1**

0	0	0
---	---	---

(***) System Wide Parameter (***)

DAYS

Enter 0 – 255 + [OK] To Program The Number Of Days Before A User Test Is Requested.

Areas > Area Testing >

Service Interval**MENU 2-9-2**

0	0	0
---	---	---

(***) System Wide Parameter (***)

WEEKS

Enter 0 – 255 + [OK] To Program The Number Of Weeks Between Installer Service Interval.

Areas > Area Testing >

Test Options**MENU 2-9-3**

1	Monitor User Test Interval	Y
2	Reserved	N
3	Reserved	N
4	Reserved	N
5	Reserved	N
6	Walk Test Reports	Y
7	Walk Test 24-Hour Zones	N
8	Walk Test Fire Zones	N

This location is a Bit option field. Press Keys [1] – [8] to turn ON and OFF the required options. The option is selected or ON when the corresponding zone indicator is on. Press [OK] To Save when finished.

Input Programming

Inputs > Commands >

Zone Status MENU 3-0-0

Zone Array MENU 3-0-1

Bypass Zones MENU 3-0-2

Set Chime Zones MENU 3-0-3

Set Part 2 Zones MENU 3-0-4

Smoke Sensor Reset MENU 3-0-5

Inputs > Zone Properties >

Zone Name MENU 3-1-0

Z	o	n	e		1		N	a	m	e							
---	---	---	---	--	---	--	---	---	---	---	--	--	--	--	--	--	--

Use [←] and [→] Keys To Scroll the Cursor Left and Right. Use Keys [0] – [9] + [↑] and [↓] To Select Characters. When finished press [OK] To Save. Press [OFF] To Clear From The Current Cursor Position.

Inputs > Zone Properties >

Zone Type MENU 3-1-1

1

Enter 0 – 15 + [OK] To Program Zone Type

Zone Types	
0 = Zone Not Used	
1 = Burglary Delay 1 (Entry Timer 1)	
2 = Burglary Delay 2 (Entry Timer 2)	
3 = Burglary Instant 1 (With Exit Delay)	
4 = Burglary Instant 2 (No Exit Delay)	
5 = Burglary Handover	
6 = Burglary 24-Hour	
7 = Tamper 24-Hour	
8 = Hold Up 24-Hour (Silent & Invisible)	
9 = Medical 24-Hour	
10 = Panic 24-Hour	
11 = Fire 24-Hour	
12 = Reserved	
13 = Keyswitch Zone	
14 = Display Only	
15 = 24-Hour Non Burglary	

Table 18: Zone Types

Inputs > Zone Properties >

Area Assignment MENU 3-1-2

1

Enter 1 – 8 + [OK] To Assign The Zone To A Single Area Only

Inputs > Zone Properties >

Pulse Count MENU 3-1-3

0	0
---	---

PULSES

Enter 0 – 15 + [OK] To Program The Number Of Pulses The Zone Must Register Within The Zone Pulse Count Time.

Inputs > Zone Properties >

Pulse Count Time MENU 3-1-4

1	2	0
---	---	---

SECONDS

Enter 0 – 255 + [OK] To Program The Period Of Time In Seconds That The Pulse Count Must Register.

Inputs > Zone Properties >

Access Group MENU 3-1-5

0

Enter 1 – 8 + [OK] To Assign The Zone To An Access Group (0 = Disabled).

Inputs > Zone Properties >

Report Route MENU 3-1-6

1

0 = Report Events To Log Only

1 = Report Events To Destination 1 + Log

2 = Report Events To Destination 2 + Log

3 = Report Events To Destination 1 & Destination 2 + Log

4 = Report Events To Destination 2 If Destination 1 Fails +Log

Enter 0 – 4 + [OK] To Set the Destination Zone Reports Are Sent To.

Inputs > Zone Properties >

Report Options MENU 3-1-7

1	Lockout Dialer	Y
2	Report Alarm	Y
3	Report Trouble	Y
4	Report Bypass	Y
5	Reserved	N
6	Reserved	N
7	Report Restores	Y
8	Delay Reporting	N

This location is a Bit option field. Press Keys [1] – [8] to turn ON and OFF the required options. The option is selected or ON when the corresponding zone indicator is on. Press [OK] To Save when finished.

Inputs > Zone Properties >

Zone Options MENU 3-1-8

1	Lockout Siren	Y
2	Silent Alarm	N
3	Inverted Seal	N
4	Bypass Allowed	Y
5	Sensor Watch	N
6	Armed When in Part Mode 1	Y
7	Reserved	N
8	Test On Exit	Y

This location is a Bit option field. Press Keys [1] – [8] to turn ON and OFF the required options. The option is selected or ON when the corresponding zone indicator is on. Press [OK] To Save when finished.

Inputs > RF Zone >

Add RF Device MENU 3-3-0

Delete RF Device MENU 3-3-1

Zone Default Table

The table below list the default values for all zone parameters in theSolution16i. By default, zones 5 to 16 are set as Instant zones. Zones marked as Not Used do not require EOL resistors to be fitted.

Programming Option	Zone 1	Zone 2	Zone 3	Zone 4	Zones 5 to 16
Zone Name	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5 - Zone 16
Zone Type	1 = Delay 1	5 = Handover	5 = Handover	5 = Handover	3 = Instant
Area Assignment	1	1	1	1	1
Pulse Count	0	0	0	0	0
Pulse Count Time (Sec's)	120	120	120	120	120
Access Group	0	0	0	0	0
Report Route	2	2	2	2	2
Reporting Options					
Lockout Dialler	Y	Y	Y	Y	Y
Report Alarm	Y	Y	Y	Y	Y
Report Alarm Restore	Y	Y	Y	Y	Y
Report Trouble	Y	Y	Y	Y	Y
Report Trouble Restore	Y	Y	Y	Y	Y
Report Bypass	Y	Y	Y	Y	Y
Report Bypass Restore	Y	Y	Y	Y	Y
Delay Report	N	N	N	N	N
Zone Options					
Lockout Siren	Y	Y	Y	Y	Y
Silent Alarm	N	N	N	N	N
Inverted Seal	N	N	N	N	N
Bypass Allowed	Y	Y	Y	Y	Y
Sensor Watch	N	N	N	N	N
Armed When Part On	Y	Y	Y	Y	Y
Reserved	N	N	N	N	N
Test On Exit	N	Y	Y	Y	Y

Table 19: Zone Defaults

Test RF Device

MENU 3-3-2

Inputs > Global Input Options >

EOL Value

MENU 3-4-0

0 = No EOL

5

1 = 1K0 6 = 4K7 11 = 6K8 Alarm with 2K2 Tamper

2 = 1K5 7 = 5K6 12 = 10K Alarm with 10K Tamper

3 = 2K2 8 = 6K8 13 = 22K

4 = 2K7 9 = 8K1 14 = 3K3 with 6K8 Tamper

5 = 3K3 10 = 10K 15 = Split EOL (Parallel)
(3K3 = Primary 6K8 = Secondary)

Enter 0 - 15 Then Press [OK] To Program Globally The EOL Resistor For All Zones. (** System Wide Parameter **)

Inputs > Global Input Options >

Keyswitch Options

MENU 3-4-1

0 = Latching - All On/Off

5 = Momentary All On/Off

0

1 = Latching - All On

6 = Momentary - All On

2 = Latching Part On/Off

7 = Momentary - Part On/Off

3 = Latching - Part On

8 = Momentary - Part On

4 = Latching Off

9 = Momentary - Off

Enter 0 - 9 Then Press [OK] To Program How The Keyswitch Will Operate. (** System Wide Parameter **)

Inputs > Global Input Options >

Input Options

MENU 3-4-2

1	Tamper On Short	N
2	Reserved	N
3	Response Time 500ms	N
4	Reserved	N
5	Keyswitch Open / Close Report	Y
6	Reserved	N
7	Reserved	N
8	Reserved	N

This location is a Bit option field. Press Keys [1] – [8] to turn ON and OFF the required options. The option is selected or ON when the corresponding zone indicator is on. Press [OK] To Save when finished. (** System Wide Parameter **)

Inputs > PGM Input >

Input Type

MENU 3-5-0

0 = Disabled

0

1 = Latching - On/Off (RF Relay)

2 = Momentary - On/Off (RF Relay)

3 = Digiflex RF On/Off

6 = Ness Serial RF Receiver

4 = Bosch Serial RF Receiver

7 = Inovonics Serial Receiver

5 = Reserved

8 = Secure Wireless Receiver

Enter 0 - 7 + [OK] to select the interface method used for the given RF receiver.

Inputs > Tamper Inputs >

Tamper Options**MENU 3-6-0**

1	Display Panel Tamper	Y
2	Report Panel Tamper	Y
3	Audible Panel Tamper	Y
4	Display Expander Tamper	Y
5	Report Expander Tamper	Y
6	Audible Expander Tamper	Y
7	Reserved	N
8	Reserved	N

This location is a Bit option field. Press Keys [1] – [8] to turn ON and OFF the required options. The option is selected or ON when the corresponding zone indicator is on. Press [OK] To Save when finished.

Inputs > Input Testing >

Walk Test All Zones**MENU 3-9-0****Walk Test A Zones****MENU 3-9-1**

Inputs > Input Testing >

Sensor Watch Time**MENU 3-9-2**

0 3 0

DAYS

(***) System Wide Parameter (***)

Enter 0 – 255 + [OK] To Program The Sensor Watch Time In Days
(0 = Disabled)

Output Programming

Outputs > Commands >

Output Status**MENU 4-0-0****Turn Output On/Off****MENU 4-0-1**

Outputs > Properties >

Output Name**MENU 4-1-0**

O u t p u t 1 N a m e

Use [←] and [→] Keys To Scroll the Cursor Left and Right. Use Keys [0] – [9] + [↑] and [↓] To Select Characters. When finished press [OK] To Save. Press [OFF] To Clear From The Current Cursor Position.

Outputs > Properties >

Event Type**MENU 4-1-1**

0 0 0

Enter desired Event type 0 – 255 + [OK].
See Output Event Type table for available options.

Outputs > Properties >

Event Assignment**MENU 4-1-2**

0 0 1

Enter 0 to 255 to program the Area, User, Zone, Keypad or Access Group Number You Want The Output To Follow Then Press [OK].
(0 = Unrestricted all Areas, Users, Zones etc)

Output Default Table

The table below list the default values for all Output parameters in the Solution16i. Outputs 1 to 4 are High current digital outputs. Outputs 5 to 8 are only available if the optional Output Relay Expander Boards (CM710) are fitted. Options marked N/A = Not Applicable.

Programming Option	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8
Output Name	External Siren	Strobe Light	Smoke Sensor PWR	Internal Siren	Output 5 Name	Output 6 Name	Output 7 Name	Output 8 Name
Event Type	36 (External Siren)	48 (Strobe)	49 (Smoke Sensor GND)	37 (Internal Siren)	0	0	0	0
Event Assignment	1	1	1	1	1	1	1	1
Output Polarity	14	6	11	6	0	0	0	0
Time Parameter								
N° Of Hours	000	008	000	000	000	000	000	000
N° Of Minutes	005	000	000	005	000	000	000	000
N° Of Seconds	000	000	010	000	000	000	000	000
N° Of 1/10 Seconds	000	000	000	000	000	000	000	000
Output Options								
Do not Operate If Low Battery	Y	Y	Y	Y	N	N	N	N
Display Output Overload	Y	Y	Y	Y	N/A	N/A	N/A	N/A
Report Output Overload	Y	Y	Y	Y	N/A	N/A	N/A	N/A
Display Missing Output Device	Y	N	N	N	N/A	N/A	N/A	N/A
Report Missing Output Device	Y	N	N	N	N/A	N/A	N/A	N/A
Alarm On Device Fail	N	N	N	N	N/A	N/A	N/A	N/A
Block Output If Armed All On	N	N	N	N	N	N	N	N
Display Status On Keypad	N	N	N	N	N	N	N	N

Table 20: Output Default Table

Output Event Types

0 = Disabled			
1 = Battery Trouble	P	26 = Entry Time	A
2 = AC Trouble	P	27 = Exit Time	A
3 = Telephone Line Trouble	P	28 = End Of Exit Time	A
4 = Comm Fail – Destination 1 / 2	P	29 = Chime On	A
5 = Third Dialler Attempt	P	30 = Chime Zone Triggered	A
6 = Destination 1 Reporting	P	31 = Auto Arm Pre-Alert	A
7 = Destination 2 Reporting	P	32 = Ready To Arm All On	A
8 = Destination 1 or 2 Kiss Off	P	33 = Ready To Arm Part On	A
9 = Destination 1 Kiss Off	P	34 = Ready To Arm Part 2 On	A
10 = Destination 2 Kiss Off	P	35 = Closing Report Sent OK	A
11 = Dialler Disabled	P	36 = External Siren (Spk Beeps)	A
12 = Horn Speaker Missing	P	37 = Internal Siren (Spk Beeps)	A
13 = Output Trouble	O	38 = Alarm Any (Silent or Audible)	A
14 = Panel On Line	P	39 = Fire Alarm	A
15 = Incoming Call	P	40 = Burglary Alarm	A
16 = System Trouble	P	41 = Silent Alarm	A
17 = Box Tamper	P	42 = Duress Alarm	A
18 = Zone Trouble	Z	43 = Keypad Medical	A
19 = Zone Mirror	Z	44 = Keypad Fire	A
20 = Zone Alarm	Z	45 = Keypad Panic	A
21 = Area Disarmed	A	46 = Device Tamper	A
22 = Area Armed (Any)	A	47 = Access Denied	A
23 = Area All On	A	48 = Strobe	A
24 = Area Part On	A	49 = Smoke Sensor GND	A
25 = Area Part 2 On	A	50 = Sensor Watch	A
		51 = Senior Watch	A
		52 = Exit Error	A
		53 = RF Key Fob Function 1	A
		54 = RF Key Fob Function 2	A
		55 = Output Pre-Alert	A
		56 = Follow PIN Code	U
		57 = Part Entry Time	A
		58 = Time Schedule	S
		59 = Temperature Alarm	K
		60 = Access Group	G
			(A) = Area Event Assignment
			(P) = Panel Event Assignment
			(O) = Output Event Assignment
			(Z) = Zone Event Assignment
			(U) = User Event Assignment
			(S) = Schedule Event Assignment
			(G) = Access Group Event Assignment
			(K) = Keypad

Table 21: Output Event Types

Outputs > Properties >

Output Polarity

MENU 4-1-3

0	0
---	---

Enter 0 – 14 + [OK] To Program The Output Polarity.
See table below for available polarity types.
Each Output Can Only Have One Option Programmed.

Option	Polarity
0	Normally Open Going Low
1	Normally Open Going Low With Pre Delay
2	Normally Open Latching Low
3	Normally Open Pulsing Low
4	Normally Open One Shot Low
5	Normally Open One Shot Low + Retrigger
6	Normally Open One Shot Low + Reset
7	Normally Low Going Open
8	Normally Low Going Open With Pre Delay
9	Normally Low Latching Open
10	Normally Low Pulsing Open
11	Normally Low One Shot Open
12	Normally Low One Shot Open + Retrigger
13	Normally Low One Shot Open + Reset
14	Horn Speaker (Output 1 or 2 Only)
15	Reserved

Table 22: Output Polarity Types

Outputs > Properties >

Time Parameter

MENU 4-1-4

hh = Hour nn = Minute ss = Seconds tt = 10th Sec

The time base parameter is only applicable for output types that are programmed as one shot or pulsing. Program 0 to 255 for each of the units (Hour, Minute, Seconds and 10th of a Second) for the time parameter. Add the units together to give the total one shot time or pulsing on/off time.

One Shot Mode

The time base is the length of time that the output will operate.

For Example you may want a strobe output to operate for 1 hour, Either of the examples below will achieve the 1 hour time.

Total Time	Hour	Minute	Seconds	10th Sec
60 Minutes	001	000	000	000
60 Minutes	000	060	000	000

Pulsing Mode

The time base is the unit of time that the output will pulse on and off. If the time base is programmed for 60 seconds, the output will pulse on for 60 seconds and then off for 60 seconds (repeat) until the output is reset.

Outputs > Properties >

Output Options**MENU 4-1-5**

1	Do Not Operate On Low Battery	Y
2	Display Overload	Y
3	Report Overload	Y
4	Display Device Fail	Y
5	Report Device Fail	Y
6	Alarm On Device Fail	N
7	Block If Armed All On	N
8	Display Output Status On Keypad	N

This location is a Bit option field. Press Keys [1] – [8] to turn ON and OFF the required options. The option is selected or ON when the corresponding zone indicator is on. Press [OK] To Save when finished.

Outputs > Properties >

Macro Group**MENU 4-1-6**

Reserved

Outputs > Testing >

External Siren Test**MENU 4-9-0****Internal Siren Test****MENU 4-9-1****Strobe Test****MENU 4-9-2****Comms Programming**

Comms > Commands >

Set Domestic Number**MENU 5-0-0****Call / Answer RAS (VisionLink)****MENU 5-0-1****Call Forward On/Off****MENU 5-0-2****Check Web Email****MENU 5-0-3****Email System Log****MENU 5-0-4****Start Direct Link Session****MENU 5-0-5**

Comms > Registration >

Customer**MENU 5-0-5**

Reserved

Comms > Registration >

Installer**MENU 5-0-6**

Reserved

Comms > Telephone Number >

Number Prefix**MENU 5-1-0**

1	Digits	32

Use [←] and [→] Keys To Move Cursor. Enter [0] – [9] For Telephone Digits. Use [↑] and [↓] To Toggle Special Characters * # and , (Pause)

Comms > Telephone Number >

Primary Dest 1**MENU 5-1-1**

1	Digits	32

Use [←] and [→] Keys To Scroll Cursor. Enter [0] – [9] For Telephone Digits. Use [↑] and [↓] To Toggle Special Characters * # and , (Pause)

Comms > Telephone Number >

Secondary Dest 1**MENU 5-1-2**

1	Digits	32

Use [←] and [→] Keys To Scroll Cursor. Enter [0] – [9] For Telephone Digits. Use [↑] and [↓] To Toggle Special Characters * # and , (Pause)

Comms > Telephone Number >

Primary Dest 2**MENU 5-1-3**

1	Digits	32

Use [←] and [→] Keys To Scroll Cursor. Enter [0] – [9] For Telephone Digits. Use [↑] and [↓] To Toggle Special Characters * # and , (Pause)

Comms > Telephone Number >

Secondary Dest 2**MENU 5-1-4**

1	Digits	32

Use [←] and [→] Keys To Scroll Cursor. Enter [0] – [9] For Telephone Digits. Use [↑] and [↓] To Toggle Special Characters * # and , (Pause)

Comms > Telephone Number >

Domestic Number**MENU 5-1-5**

1	Digits	32
First Number		

1	Digits	32
Second Number		

1	Digits	32
Third Number		

Use [←] and [→] Keys To Scroll Cursor. Enter [0] – [9] For Telephone Digits. Use [↑] and [↓] To Toggle Special Characters * # and , (Pause)



Up to 3 Phone numbers can be entered for Domestic dialing. Press [OK] after each telephone number is entered to save and move to the next number.

Comms > Telephone Number >

Call Forward On**MENU 5-1-6**

1	Digits	32

Use [←] and [→] Keys To Scroll Cursor. Enter [0] – [9] For Telephone Digits. Use [↑] and [↓] To Toggle Special Characters * # and , (Pause)

Comms > Telephone Number >

Call Forward Off**MENU 5-1-7**

1	Digits										32
#	6	1	#								

Use [←] and [→] Keys To Scroll Cursor. Enter [0] – [9] For Telephone Digits. Use [↑] and [↓] To Toggle Special Characters * # and , (Pause)

Comms > Properties >

Call Attempt Count**MENU 5-2-0**

0	6
---	---

Enter 0 - 15 Then Press [OK] To Program The Maximum Call Retry Attempts Per Destination

Comms > Properties >

Dialer Options**MENU 5-2-1**

1	Dialler Enabled	Y
2	Pulse Dialling	N
3	Dial Tone Detect	Y
4	Busy Tone Detect	N
5	Mirror Reports To Web	Y
6	Extend Handshake Wait Period To 1 Minute	N
7	Reserved	N
8	Abort Failed Reports	Y

This location is a Bit option field. Press Keys [1] – [8] to turn ON and OFF the required options. The option is selected or ON when the corresponding zone indicator is on. Press [OK] To Save when finished.

Comms > Properties >

Phone Line Options**MENU 5-2-2**

1	Display Telephone Line Fail	Y
2	Report Telephone Line Fail	Y
3	Alarm On Line Fail If Armed	Y
4	Alarm On Line Fail If Disarmed	N
5	Reserved	N
6	Reserved	N
7	Reserved	N
8	Display Phone In Use	N

This location is a Bit option field. Press Keys [1] – [8] to turn ON and OFF the required options. The option is selected or ON when the corresponding zone indicator is on. Press [OK] To Save when finished.

Comms > Properties >

Country**MENU 5-2-3**

1 = Australia		1
2 = New Zealand	7 = Portugal	12 = China
3 = Italy	8 = Hungary	13 = Hong Kong
4 = Greece	9 = Czech Republic	14 = Malaysia
5 = Cyprus	10 = Poland	15 = Brazil
6 = Spain	11 = Bulgaria	

Enter 1 – 15 + [OK] To Set Which Country The Panel Is Being Used In. Only 1 Location Can Be Programmed. (** System Wide Parameter **)

Comms > Properties >

Set SMS Pasword**MENU 5-2-7**

p	a	s	s	w	d														
---	---	---	---	---	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Use keys 0 - 9 To Program SMS Password + [OK] To Save. Use [←] and [→] Keys To Scroll Cursor. Default password is for Telstra in Australia.

Comms > Remote Access >

Call Back Number**MENU 5-3-0**

1	Digits										32

Use [←] and [→] Keys To Scroll Cursor. Enter [0] – [9] For Telephone Digits. Use [↑] and [↓] To Toggle Special Characters * # and , (Pause)

Comms > Remote Access >

RAS Security PIN**MENU 5-3-1**

1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---

Use keys 0 - 9 To Program RAS Security PIN + [OK] To Save. This security PIN is used the authenticate during remote access connections. You should not leave this PIN at the default value.

Comms > Remote Access >

Log Threshold**MENU 5-3-2**

7	0	%
---	---	---

Enter 0 - 9 To Program Log Threshold + [OK] To Save

Comms > Remote Access >

Ring Count**MENU 5-3-3**

0 = No Answer

1 to 15 = Answer Ring Count

10

Enter 0 - 15 Then Press [OK] To Program The Ring Count - Single Option Only

Comms > Remote Access >

Solution Link RAS Options**MENU 5-3-4**

1	RAS Allowed	Y
2	Call Back Verification Required	N
3	Terminate RAS on Alarm	Y
4	Answer Machine Bypass	Y
5	Answer Incoming Call Only If Armed	N
6	Tone Bypass	Y
7	Allow User Functions Via Remote Access Software	Y
8	Report / Log RAS Start / End Sessions	Y

This location is a Bit option field. Press Keys [1] – [8] to turn ON and OFF the required options. The option is selected or ON when the corresponding zone indicator is on. Press [OK] To Save when finished.

Comms > Remote Access >

DTMF Options**MENU 5-3-5**

1	DTMF Arming	Y
2	DTMF Disarming	N
3	DTMF User Functions	N
4	DTMF Quick Arm ([0] + [#])	Y
5	Reserved	N
6	Reserved	N
7	Reserved	N
8	Reserved	N

This location is a Bit option field. Press Keys [1] – [8] to turn ON and OFF the required options. The option is selected or ON when the corresponding zone indicator is on. Press [OK] To Save when finished.

Comms > Remote Access >

Voice Access Code**MENU 5-3-6**

9 #

If a Voice Module is used enter the 2-digit access code used to access the system. Enter [0] – [9] For Digits and Use [↑] and [↓] To Toggle Special Characters.

Comms > Remote Access >

CLI Number**MENU 5-3-7**

First Number	1	Digits	32
Second Number	1	Digits	32
Third Number	1	Digits	32

Use [←] and [→] Keys To Scroll Cursor. Enter [0] – [9] For Telephone Digits. Use [↑] and [↓] To Toggle Special Characters * # and , (Pause)



Up to 3 Phone numbers can be entered for CLI remote access detection. You must enter STD code plus the complete number for this option to work. Press [OK] after each telephone number is entered to save and move to the next number.

Comms > Remote Access >

User RAS Security PIN**MENU 5-3-8**

0 0 0 0 0 0 0 0

Use keys 0 - 9 To Program RAS Security PIN + [OK] To Save. This PIN is used the authenticate during user remote access connections.

Comms > Dialler Reporting >

TX Format Dest 1**MENU 5-4-0**

- 0 = Disable 1
- | | | |
|----------------|---------------|---------------|
| 1 = Contact ID | 7 = Domestic | |
| 2 = SIA | 8 = Voice | 13 = Reserved |
| 3 = Serial STU | 9 = SIA + | 14 = Reserved |
| 4 = GSM | 10 = Reserved | 15 = Reserved |
| 5 = WEB MAIL | 11 = Reserved | |
| 6 = SMS | 12 = Reserved | |

Enter 0 – 15 Then Press [OK] To Program The Transmission Format The Control Panel Will Use To Report To Destination 1. Only 1 Option Can Be Programmed In This Location.

Comms > Dialler Reporting >

TX Format Dest 2**MENU 5-4-1**

- 0 = Disable 1
- | | | |
|----------------|---------------|---------------|
| 1 = Contact ID | 7 = Domestic | |
| 2 = SIA | 8 = Voice | 13 = Reserved |
| 3 = Serial STU | 9 = SIA + | 14 = Reserved |
| 4 = GSM | 10 = Reserved | 15 = Reserved |
| 5 = WEB MAIL | 11 = Reserved | |
| 6 = SMS | 12 = Reserved | |

Enter 0 – 15 Then Press [OK] To Program The Transmission Format The Control Panel Will Use To Report To Destination 2. Only 1 Option Can Be Programmed In This Location.

Comms > Dialler Reporting

Test Route**MENU 5-4-2**

- 0 = Report Events To Log Only 1
- 1 = Report Events To Destination 1 + Log
- 2 = Report Events To Destination 2 + Log
- 3 = Report Events To Destination 1 & Destination 2 + Log
- 4 = Report Events To Destination 2 If Destination 1 Fails + Log

Location 5-4-2 Sets The Report Route For Test Reports. Enter 0 - 4 + [OK]. Only One Option Can Be Selected. (** System Wide Parameter **)

Comms > Dialler Reporting

Status Route**MENU 5-4-3**

- 0 = Report Events To Log Only 1
- 1 = Report Events To Destination 1 + Log
- 2 = Report Events To Destination 2 + Log
- 3 = Report Events To Destination 1 & Destination 2 + Log
- 4 = Report Events To Destination 2 If Destination 1 Fails + Log

Location 5-4-3 Sets The Report Route For System Status Reports. Enter 0 - 4 + [OK]. Only One Option Can Be Selected. (** System Wide Parameter **)

Comms > Dialler Reporting

Emergency Route**MENU 5-4-4**

- 0 = Report Events To Log Only 1
- 1 = Report Events To Destination 1 + Log
- 2 = Report Events To Destination 2 + Log
- 3 = Report Events To Destination 1 & Destination 2 + Log
- 4 = Report Events To Destination 2 If Destination 1 Fails + Log

Location 5-4-4 Sets The Report Route For All Emergency Reports. Enter 0 - 4 + [OK]. Only One Option Can Be Selected. (** System Wide Parameter **)

Comms > Dialler Reporting >

Swinger Dialler**MENU 5-4-5**

0 6

Enter 0 – 15 + [OK] To Program Number Of Times The Dialler Can Report Before Lockout. (** System Wide Parameter **)

0 = Unlimited Attempts

Comms > Dialler Reporting >

Burg Report Delay**MENU 5-4-6**

0	0	0
---	---	---

SECONDS

Enter 0 – 255 seconds + [OK] To Program The Delay Time In Seconds Before Reports Are Sent. 0 = No Delay (** System Wide Parameter **)

Comms > Dialler Reporting >

Fire Report Delay**MENU 5-4-7**

0	0	0
---	---	---

SECONDS

Enter 0 – 255 seconds + [OK] To Program The Delay Time In Seconds Before Reports Are Sent. 0 = No Delay (** System Wide Parameter **)

Comms > Comms Test >

Send Test Report**MENU 5-9-0**

Comms > Comms Test >

Test Report Time**MENU 5-9-1**

Test Time

02	:	00
HH		MM

Use the [←] and [→] keys to move to the field then [↑] and [↓] to change. Press [OK] to save or [MENU] to exit without saving.



Time is programmed in 24hour format.

Comms > Comms Test >

Test Report Period**MENU 5-9-2**

- 0 = No Test Report
- 1 = Every Day
- 2 = Every Week
- 3 = Every Month

1

MENU 5-9-2 Programs The Interval Between Automatic Test Reports. Enter [0] to [3] + [OK] To Program the required value. (** System Wide Parameter **)

Comms > Comms Test >

Test Report Options**MENU 5-9-3**

1	Send Test Reports Only If No Other Report	N
2	Send Test Reports On Siren Reset / Time Out	Y
3	Reserved	N
4	Reserved	N
5	Reserved	N
6	Reserved	N
7	Reserved	N
8	Reserved	N

This location is a Bit option field. Press Keys [1] – [8] to turn ON and OFF the required options. The option is selected or ON when the corresponding zone indicator is on. Press [OK] To Save when finished.

Comms > Comms Test >

Test Route**MENU 5-9-4**

- 0 = Report Events To Log Only
- 1 = Report Events To Destination 1 + Log
- 2 = Report Events To Destination 2 + Log
- 3 = Report Events To Destination 1 & Destination 2 + Log
- 4 = Report Events To Destination 2 If Destination 1 Fails + Log

1

Enter 0 - 4 + [OK]. To Enter Single Option Only. (** System Wide Parameter **)

Comms > Comms Test >

Dial Number Test**MENU 5-9-5**

Use the option to test the system dialer to your mobile or other phone. Enter the digits to dial and press OK. The system will call the number entered. This function will stop after 30 seconds or by pressing OK. Enter [0] – [9] For Telephone Digits. Use [↑] and [↓] To Toggle Special Characters * # and , (Pause)

Device Programming

Devices > Commands >

LAN Status**MENU 6-0-0****LAN Secure****MENU 6-0-1**

Devices > Keypads >

Keypad Volume**MENU 6-1-0****Keypad Contrast****MENU 6-1-1****Keypad Backlight****MENU 6-1-2**

Devices > Keypads >

Home Area**MENU 6-1-3****1**

Enter 1 - 8 Then Press [OK] To Set The Home Area. This is the Area which will be displayed on the keypad by default.



All keypads must have a home area programmed to work correctly.

Devices > Keypads >

General Options**MENU 6-1-4**

1	Keypad Extinguish	N
2	Greeting On Arming	Y
3	Greeting On Disarming	Y
4	Enable Rear Tamper	N
5	PIN To Change Area	N
6	Home Area Only	N
7	Report/Display Keypad Temperature	N
8	Display Area ICON Indicators	N

This location is a Bit option field. Press Keys [1] – [8] to turn ON and OFF the required options. The option is selected or ON when the corresponding zone indicator is on. Press [OK] To Save when finished.

Devices > Keypads >

Beeper Options MENU 6-1-5

1	Trouble Alert Beeps	Y
2	Entry Warning	Y
3	Exit Warning	Y
4	Chime Tone	Y
5	Display Temperature	N
6	PIN Arming Not Allowed	N
7	Installer PIN Not Allowed	N
8	Show Alarm When Armed	N

This location is a Bit option field. Press Keys [1] – [8] to turn ON and OFF the required options. The option is selected or ON when the corresponding zone indicator is on. Press [OK] To Save when finished.

Devices > Keypads >

Emergency Keys MENU 6-1-6

1	Audible Keypad Fire	Y
2	Report Keypad Fire	Y
3	Audible Keypad Medical	Y
4	Report Keypad Medical	Y
5	Audible Keypad Panic (Invisible If Not Set)	Y
6	Report Keypad Panic	Y
7	Reserved	N
8	Reserved	N

This location is a Bit option field. Press Keys [1] – [8] to turn ON and OFF the required options. The option is selected or ON when the corresponding zone indicator is on. Press [OK] To Save when finished.

Devices > Keypads >

Access Group MENU 6-1-7

0

Enter 1 - 8 + [OK] To Assign The Keypad To An Access Group.

Devices > Keypads >

Lockout Time MENU 6-1-8

0 6 0

SECONDS

Enter 0 – 255 + [OK] To Program The Keypad Lockout Time In Seconds. 0 = No Lockout (***) System Wide Parameter (***)

Devices > RF Devices >

Receiver Options MENU 6-2-0

1	Display RF Receiver Trouble	Y
2	Alarm On RF Receiver Tamper	Y
3	Report RF Receiver Tamper	Y
4	Alarm On RF Receiver Jam Detect	N
5	Report RF Receiver Jam Detect	N
6	Alarm On RF Receiver Comms Fail	Y
7	Report RF Receiver Comms Fail	Y
8	Reserved	N

This location is a Bit option field. Press Keys [1] – [8] to turn ON and OFF the required options. The option is selected or ON when the corresponding zone indicator is on. Press [OK] To Save when finished.

Device > RF Devices >

Supervision Time MENU 6-2-1

0 2 4

HOURS

Enter the RF Supervision Time for Devices in Hours (001 - 255 Hours)
000 = No Supervision

Device > RF Devices >

RF Device Options MENU 6-2-2

1	Display RF Tamper	Y
2	Report RF Tamper	Y
3	Report RF Low Battery	Y
4	Report Lost RF Device	Y
5	Open Zone On Lost RF	N
6	Audible Keyfob Panic	Y
7	Report Keyfob Panic	Y
8	Keyfob Function 1 Key = Part On	Y

This location is a Bit option field. Press Keys [1] – [8] to turn ON and OFF the required options. The option is selected or ON when the corresponding zone indicator is on. Press [OK] To Save when finished.

Devices > RF Devices >

Add RF Keypad MENU 6-2-3**Delete RF Keypad** MENU 6-2-4**View RF Device ID** MENU 6-2-5

Devices > Serial Device >

Device Type MENU 6-3-0

0 = Disabled

0

1 = Serial Printer

2 = Computer

Enter 0 – 8 + [OK] To Program The Type Of Serial Device Connected To The Serial Port.

Devices > Serial Device >

Baud Rate MENU 6-3-1

0 = No Device Connected

0

1 = 300 Baud

5 = 9600 Baud

2 = 600 Baud

6 = 19200 Baud

3 = 1200 Baud

4 = 2400 Baud

Enter Digits 0 – 6 To Program The Serial Device Baud Rate, Then Press [OK] To Save.

Devices > Serial Device >

Flow Control MENU 6-3-2

0 = No Handshaking

0

1 = Hardware

2 = Xon-Xoff

Enter Digits 0 – 2 To Program The Serial Device Flow Control, Then Press [OK] To Save.

System Programming

System > Commands >

Panel Status MENU 7-0-0

System Trouble MENU 7-0-1

History Log MENU 7-0-2

Domestic Default MENU 7-0-3

Factory Default MENU 7-0-4

Template Default MENU 7-0-5

Service Mode MENU 7-0-8

System > Clock >

Set Date & Time MENU 7-1-0

System > Clock >

Summertime On MENU 7-1-1

At 2:00am

Month Week Day

Program The Month Of The Year (Jan = 01 – Dec = 12), Week Of The Month (Wk1 to Wk5=Last) and Day Of The Week (Day 1=Sun To Day 7 = Sat). Using the 0 - 9 Keys Enter The Required Values. Use the [→] Key Move To The Next Field. (***) System Wide Parameter (***)

System > Clock >

Summertime Off MENU 7-1-2

At 2:00am

Month Week Day

Program The Month Of The Year (Jan = 01 – Dec = 12), Week Of The Month (Wk1 to Wk5=Last) and Day Of The Week (Day 1=Sun To Day 7 = Sat). Using the 0 - 9 Keys Enter The Required Values. Use the [→] Key Move To The Next Field. (***) System Wide Parameter (***)

System > Timers >

Exit Time MENU 7-2-0

(***) System Wide Parameter (***)

SECONDS

Enter 0 – 255 + [OK] To Program The Exit Time In Seconds.

System > Timers >

Entry Time 1 MENU 7-2-1

(***) System Wide Parameter (***)

SECONDS

Enter 0 - 255 + [OK] To Program The Entry Time In Seconds.

System > Timers >

Entry Time 2 MENU 7-2-2

(***) System Wide Parameter (***)

SECONDS

Enter 0 - 255 + [OK] To Program The Entry Time In Seconds.

System > Timers >

Part Entry Time MENU 7-2-3

(***) System Wide Parameter (***)

SECONDS

Enter 0 - 255 + [OK] To Program The Part Mode Entry Time In Seconds.

System > Timers >

Auto Arm Pre-Alert MENU 7-2-4

(***) System Wide Parameter (***)

Minutes

Enter Digits 0 – 255 + [OK] To Program The Pre-Alert Time In Minutes
(0 = No Pre-Alert)

System > Timers >

Output Pre-Alert MENU 7-2-5

(***) System Wide Parameter (***)

Minutes

Enter Digits 0 – 255 + [OK] To Program The Pre-Alert Time In Minutes
(0 = No Pre-Alert)

System > Timers >

Senior Watch Time MENU 7-2-6

(***) System Wide Parameter (***)

Hours

Enter 0 – 255 + [OK] To Program The Senior Watch Interval In Hours.

System > Power >

AC Options MENU 7-3-0

1	Display AC Fail	Y
2	Report AC Fail	Y
3	Use AC To Synchronise The System Clock	Y
4	Random AC Report 2 hour	N
5	Extend AC Supervision From 1 Minute To 60 Minutes	N
6	Reserved	N
7	Reserved	N
8	Display Clock Trouble	Y

This location is a Bit option field. Press Keys [1] – [8] to turn ON and OFF the required options. The option is selected or ON when the corresponding zone indicator is on. Press [OK] To Save when finished.

System > Power >

Battery Options MENU 7-3-1

1	Display Battery Fail	Y
2	Report Battery Fail	Y
3	Execute Battery Testing On Arming	Y
4	Arming Allowed On Low Battery	Y
5	Reserved	N
6	Reserved	N
7	Reserved	N
8	Reserved	N

This location is a Bit option field. Press Keys [1] – [8] to turn ON and OFF the required options. The option is selected or ON when the corresponding zone indicator is on. Press [OK] To Save when finished.

System > Power >

Fuse Options

MENU 7-3-2

1	Display COMM+ Current Overload Condition	Y
2	Report COMM+ Current Overload Condition	Y
3	Display +12V (Accessories) Current Overload Condition	Y
4	Report +12V (Accessories) Current Overload Condition	Y
5	Display LAN+ Overload Condition	Y
6	Report LAN+ Overload Condition	Y
7	Reserved	N
8	Reserved	N

This location is a Bit option field. Press Keys [1] – [8] to turn ON and OFF the required options. The option is selected or ON when the corresponding zone indicator is on. Press [OK] To Save when finished.

System > Siren >

Tone

MENU 7-4-0

Speed

MENU 7-4-1

Volume

MENU 7-4-2

(*** System Wide Parameter ***)

1 5

Enter 0 – 15 + [OK] To Program Volume Of The Siren Volume
(0 = Disabled / 1 = Low – 15 = High)

System > Siren >

Swinger Siren

MENU 7-4-3

3

Enter 0 – 15 + [OK] To Program Number Of Times Siren Can Sound Before Lockout. (0 = Unlimited) (***) System Wide Parameter ***)

System > Schedules >

Name

MENU 7-5-0

S c h e d u l e 1 N a m e

Use [←] and [→] Keys To Scroll the Cursor Left and Right. Use Keys [0] – [9] + [↑] and [↓] To Select Characters. When finished press [OK] To Save. Press [OFF] To Clear From The Current Cursor Position.

System > Schedules >

Time

MENU 7-5-1

Start Time Stop Time
 22 : 00 12 : 00
 HH MM HH MM

Using The 0 - 9 Keys Enter The Start And Stop Time As Required. You Should Enter Two Digits For Each Option eg. 4am = 04.

Use The [→] key to move to the next field.

Press [OK] to save or [MENU] to exit without saving.

Shh= Start Time Hours
Ehh= End Time Hours

Snn= Start Time Minutes
Enn= End Time Minutes



Schedules are programmed in 24hour time.

System > Schedules >

Day

MENU 7-5-2

Sun Mon Tue Wed Thu Fri Sat Hol
 Y Y Y Y Y Y N

Enter 1 – 8 To Toggle Days ON/OFF. The day is active or ON when the corresponding zone indicator is on. Indicator 8 is used to set if the schedule will apply on holidays. When finished press [OK] To Save.

System > Schedules >

Function

MENU 7-5-3

0 = Disabled

0

1 = Area On/Off

3= Operate Output

2 = Area Part On/Off

4 = Timer Group

Enter 0 - 4 + [OK] To Program The Function the Schedule Will perform.

System > Schedules >

Index

MENU 7-5-4

0

(Enter Digits 0 – 15 To Program Area, Output or Access Group Number, Then Press [OK] To Save

System > Holidays >

Name

MENU 7-6-0

H o l i d a y N a m e

Use [←] and [→] Keys To Scroll the Cursor Left and Right. Use Keys [0] – [9] + [↑] and [↓] To Select Characters. When finished press [OK] To Save. Press [OFF] To Clear From The Current Cursor Position.

System > Holidays >

Start Stop Dates

MENU 7-6-1

Start 12am Stop 12am
 01 Jan 01 Jan
 DD MM DD MM

Using The 0 - 9 Keys Enter The Start And Stop Date For Each Holiday As Required. You Should Enter Two Digits For Each Option eg. June = 06. Use The [→] key to move to the next field.

Press [OK] to save or [MENU] to exit without saving.

Sdd= Start Date
Edd= End Date

Snn= Start Month
Enn= End Month



If the start day and month and the stop day and month are equal then no holiday exists.

System > System Options >

General Options**MENU 7-7-0**

1	Display LAN Fail	Y
2	Report LAN Fail	Y
3	Alarm On LAN Fail	N
4	Reserved	N
5	Can Change Own PIN Code	N
6	Monitor Default PIN Codes	Y
7	PIN Always Required	N
8	Display Menu Numbers	Y

This location is a Bit option field. Press Keys [1] – [8] to turn ON and OFF the required options. The option is selected or ON when the corresponding zone indicator is on. Press [OK] To Save when finished.
(*** System Wide Parameter ***)

System > System Options >

Area Options**MENU 7-7-1**

1	Area 1 = Common Area	N
2	First To Open Last To Close	N
3	Reset Siren All Users (All Areas)	Y
4	Power Up In Same State As Powered Down	Y
5	Fault Acknowledge All Areas	Y
6	Delay Trouble Beeps	Y
7	Power Up Disarmed	N
8	Reserved	N

This location is a Bit option field. Press Keys [1] – [8] to turn ON and OFF the required options. The option is selected or ON when the corresponding zone indicator is on. Press [OK] To Save when finished.
(*** System Wide Parameter ***)

System > Options >

Keypad Idle Screen**MENU 7-7-2**

- 0 = No Idle Screen
1 = Date and Time
2 = Time
3 = Custom Screen

0

(*** System Wide Parameter ***)

Use Keys [↑] and [↓] keys or enter 0 - 3 Then Press [OK] To Program The Keypad Idle Screen - Single Option Only.

System > Options >

Keypad Hi/Low Temp**MENU 7-7-3****0 0 °C**

(*** System Wide Parameter ***)

Hi TEMP**0 0 °C****Lo TEMP**

Using The 0 - 9 Keys Enter The High / Low Keypad Monitor Temperature. You Should Enter Two Digits For Each Option eg. 9 degrees = 09. Use The [→] key to move to the next field. Press [OK] to save or [MENU] to exit without saving.
Max Temp = 50 Min Temp = 0

System > Installer Options >

Installer Options**MENU 7-7-4**

1	Report/Log Entry/Exit Intstaller Menu	N
2	Report/Log Program Data Change	Y
3	Arm Only Installer Pin	N
4	Reserved	N
5	Auto Exit Installer Menu In 2 Hours	Y
6	Auto Exit Service mode In 2 Hours	Y
7	Reserved	N
8	Factory Defaulting Allowed	Y

This location is a Bit option field. Press Keys [1] – [8] to turn ON and OFF the required options. The option is selected or ON when the corresponding zone indicator is on. Press [OK] To Save when finished.
(*** System Wide Parameter ***)

System > Options >

Language**MENU 7-7-5**

0 = English

0

1 = Alternate Language

(Enter Digits 0 – 1 To Select the Primary (English) Language or the Alternative Language Then Press [OK] To Save. Early Version Panels Only Support English Language.

System > System Testing >

Walk Test All Zones**MENU 7-9-0****Battery Test****MENU 7-9-1****TESTING THE SYSTEM**

You will need to be in programming mode before accessing the test functions listed below.

Walk Test

Use the walk test command MENU 3-9-0 to test and verify that all zones work correctly.

External Audible Test

Use MENU 4-9-0 to test and verify that all horn speakers operate. This test will sound the horn speaker for two seconds.

Internal Audible Test

Use MENU 4-9-1 to test and verify that all 12 VDC sirens operate. This test will sound the siren for two seconds.

Strobe Test

Use MENU 4-9-2 To test and verify that the strobe operates. This test will turn on the strobe until you manually stop the test.

Battery Test

Use MENU 7-9-1 to test the back-up battery that is connected to the control panel.

Communication Test

Use MENU 5-9-0 to test the telephone reporting capability of the control panel. You can also activate a communication test by holding down the Test / Mail key on the keypad.

SPECIFICATIONS

Panel	Solution16i (Part Number CC510)	
Voltage Input	16-22 VAC	
Current Requirements	22 VA min plug pack adapter or transformer	
<u>Power Outputs</u>		
Continuous Power	1 Amp (Primary supply source only)	
Secondary Source	4 Amp (Total with both primary and secondary source combined)	
Stand-by Battery	12 VDC, 7AH sealed rechargeable battery	
Min Operating Voltage	10.2 VDC	
<u>Discharge Cycle</u>		
AC Off	Keypads indicate trouble condition, AC Fail report sent (if programmed)	
13.8 VDC	Charging level	
11.5 VDC	Low battery trouble at keypads, low battery report sent (if programmed)	
10.0 VDC	Panel shuts down as voltage fails below 10.2 VDC	
<u>Recharge Cycle</u>		
AC On	Panel restarts, battery charging begins.	
	AC trouble clears from keypads,	
	AC restore report sent (if programmed).	
13.0 VDC	Battery trouble clears from keypads,	
	Battery restore report sent (if programmed).	
13.8 VDC	Battery pulse charged.	
LAN BUS	12 VDC, 305M of 14/0.20 0.8mm2 (22 AWG) cable.	
Telephone Connections	RJ-12 Socket or 4-way terminal	
Temperature	0° to 55° C	
Relative Humidity	5 to 85% at 30°C non-condensing.	
Compatible Keypads	CP300i 8 Zone ICON Keypad - White CP301i 8 Zone ICON Keypad + Prox - White	CP510i 16 Zone ICON Keypad - White CP511i 16 Zone ICON + Prox - White
Compatible Accessories	CM704B 8/16 Zone Expander CM710B 4-Way Relay Output Module CM720B 1-Amp LAN Power Supply	CM195 Multi RF Receiver Interface SW500B Solution Link (RAS) Software CM900 Direct Link Interface MW710B Large Cabinet 320x520x75mm
Enclosure Dimensions:	320mm (W), 260mm (H), 75mm (D)Part Number: MW700B	
PWA Dimensions:	235mm (W), 85mm (H), 40mm (D)	
Warranty:	3 years from date of manufacture (return to base)	

The following parts are supplied with the panel

(Australian models only - content may differ in export models)

Panel Assembly Includes	1 x Metal Enclosure with tamper 1 x Panel PWA 1 x User Manual	1 x Installer Reference Guide 1 x Resistor Pack
Resistor Pack Includes	1 x Red Battery Lead 1 x Black Battery Lead 1 x 2-Way Shunt With Handle 2 x Phillips Pan Head Zinc Plate Screw 1 x Telephone Cable RJ12 6P/4C 10 x 3K3 – 0.25W +/- 1% Metal Film Resistors 10 x 6K8 – 0.25W +/- 1% Metal Film Resistors 1 x 3-Way AC Terminal Block 1 x Panel Tamper Switch 1 x Tamper Switch Bracket	
Available Separately	Solution16i Installation Manual Part Number MACC500I Solution Link (RAS) Software Part Number: SW500B	

A = 	X = 	o = 	+ = 
B = 	Y = 	p = 	, = 
C = 	Z = 	q = 	- = 
D = 	[= 	r = 	. = 
E = 	\ = 	s = 	0 = 
F = 	] = 	t = 	1 = 
G = 	^ = 	u = 	2 = 
H = 	_ = 	v = 	3 = 
I = 	` = 	w = 	4 = 
J = 	a = 	x = 	5 = 
K = 	b = 	y = 	6 = 
L = 	c = 	z = 	7 = 
M = 	d = 	SP = 	8 = 
N = 	e = 	! = 	9 = 
O = 	f = 	" = 	/ = 
P = 	g = 	# = 	:
Q = 	h = 	\$ = 	=
R = 	i = 	% = 	< = 
S = 	j = 	& = 	= = 
T = 	k = 	' = 	> = 
U = 	l = 	(= 	? = 
V = 	m = 	) = 	@ = 

Figure 26: Complete Character Set

PHONE: _____

DATE: _____

PANEL LOCATION: _____

CLI ENABLED: _____

N° OF USERS: _____

Nº OF AREAS: _____

COMMON AREA USED: _____

PERSON TRAINED: _____

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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