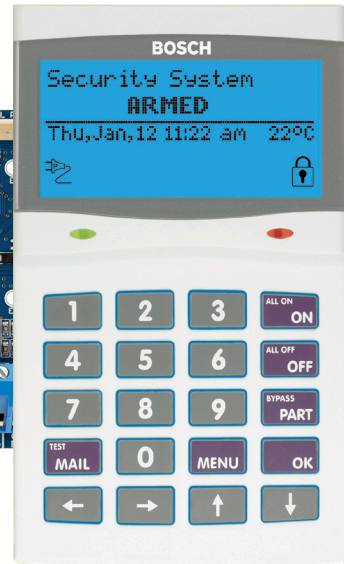
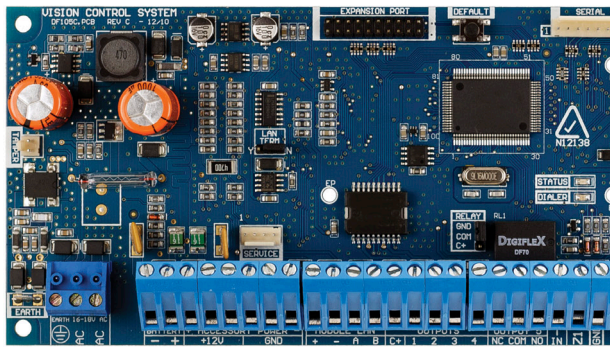


Solution 144



Security Systems

EN

Quick Start Guide
Security System

BOSCH

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The grant of a Telepermit for a device in no way indicates Telecom acceptance of responsibility for the correct operation of that device under all operating conditions.

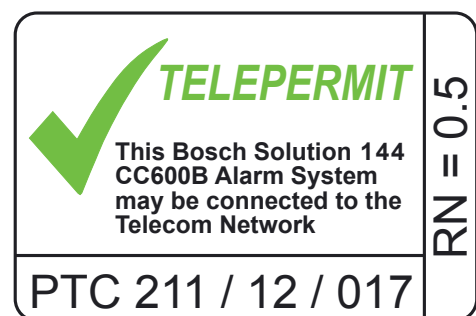
This equipment shall not be used in any manner that could constitute a nuisance to other Telecom customers.

Immediately disconnect this equipment should it become physically damaged, and arrange for its disposal or repair.

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, including but not limited to Back to Base reporting, SMS and Email Reporting and Automatic Time and Date Adjustments 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.
8. The Product Identification Label for this product which is supplied in the resistor pack, must be affixed to the outside of the enclosure during installation.



9. This equipment shall not be set up to make automatic calls to the Telecom '111' Emergency Service.

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Features

Listed below are the main features of the Solution 144 Control Panel.

- ◆ Individual Box Tamper Circuit Monitoring
- ◆ Report Via Email (Internet)
- ◆ Telephone Line Busy Tone Detect
- ◆ RAS Intelli-Connect® CLI Caller Line Identification
- ◆ Daylight Savings
- ◆ Senior Watch
- ◆ GSM/GPRS/Ethernet Reporting Options
- ◆ System Maintenance Interval Reminder
- ◆ System Weekly Test Reminder
- ◆ Area Inactivity Interval
- ◆ Up to 16 Access Doors
- ◆ Temporary PIN
- ◆ Dual Reporting
- ◆ Dual Redundant Reporting
- ◆ Alarm Report Abort/Cancel Options
- ◆ 8 Programmable Holiday Calendars
- ◆ 16 Programmable TimeZones
- ◆ 8 On-board Zones (Single EOL) / 16 On-Board Zones (Dual EOL)
- ◆ Expandable To 144 Zones)
- ◆ Fire Alarm Verification
- ◆ 255 PIN Users
- ◆ 4 Supervised High Power Digital Outputs
- ◆ 1 Relay 2 Amp Form (C) Contact (Expandable to 32)
- ◆ Supervised Siren Driver
- ◆ Partitionable To 8 Areas
- ◆ Dialler Reports SIA, Contact ID, SMS and Email Formats
- ◆ Supervised LAN Keypads (Maximum 16 Keypads)
- ◆ Keyswitch Input
- ◆ 1000 History Event Memory
- ◆ EMI / Lightning Transient Protection
- ◆ Fully Menu Text Programmable
- ◆ Programmable Via Solution Link Software (Remote/ Direct)
- ◆ Telephone Line Fail Monitor
- ◆ TimeZone Executed Functions
- ◆ 60+ Output Event Types
- ◆ Exit Restart
- ◆ Expansion Module Supervision
- ◆ DTMF Tone Decoder Built In
- ◆ Remote Arming
- ◆ Fingerprint Reader Options

Overview

Zones

The Solution 144 control panel provides up to 144 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 8 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 16 fully supervised keypads to the control panel. The available current affects the total number of keypads that you can connect without the need to provide additional power supplies.

History Log

The control panel can store up to 1000 history events from all 8 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, or by connection of a personal computer (direct/remote) using the SolutionLink upload/download software.

Programming

You can program the Solution 144 either by a keypad or using a personal computer using the Solution Link upload/download software.

About The Panel

Enclosures

The MW720B - Small Enclosure and MW730B - Large Enclosure have been designed to reduce installation time and improve aesthetics on larger installations where often multiple enclosures need to be located in close proximity to each other.

A number of new features have been incorporated including a new style tamper bracket which can be easily installed before or after the enclosure is mounted to the wall, an anti tamper lid which insures the cabinet tamper triggers when the lid is removed, easier access for flexible and rigid conduits, additional 20mm cable entry knockouts and a new board mounting system using removable spring clips.

The MW720B and MW730B enclosures include numerous holes, allowing the PCB mounting clips to be positioned in the most appropriate location for each installation.



For ease, it is recommended that the PCB mounting clips are installed from the rear of the enclosure before mounting it to the wall.

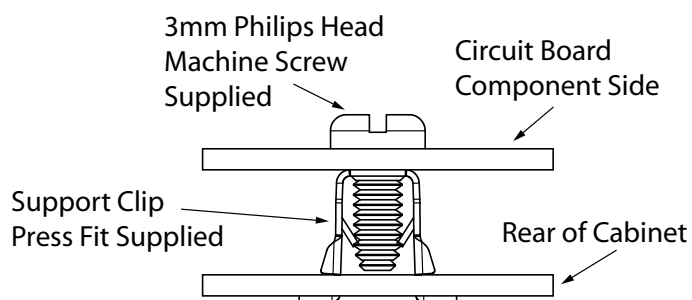


Figure 1: PCB and Mounting Clip Installation Diagram

Enclosure Fixing Method

CM720B - Small Enclosure

Use appropriate fasteners capable of handling a minimum of 6kg to fix the cabinet against a sturdy surface using the mounting holes provided.

CM730B - Large Cabinet

Use appropriate fasteners capable of handling a minimum of 12kg to fix the cabinet against a sturdy surface using the mounting holes provided.

Installing The Tamper Switch

The tamper switch can be located on either the left or right hand side of the cabinet to suit the installation. Before installing the bracket, fit the tamper lead to the switch and then insert it into the bracket.

Once the enclosure has been mounted to the wall, insert the tamper bracket into the rectangular hole in the top

flange of the enclosure and then slide the base of the bracket toward the top until the tamper switch locates in the rear of the enclosure.

Depress the tamper a few times with your finger to ensure smooth operation.



Figure 2: Tamper Bracket Installation

Enclosure Module Spaces

The MW720B enclosure has space for 2 large modules or 4 small modules while the optional MW730B enclosure has space for up to 4 large modules or 8 small ones. The enclosures 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 enclosure using 4 or more clip in standoffs. The clips can be inserted from the rear of the enclosure before mounting it to the wall, or from the front of the enclosure 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 control panel.

Module	Space Occupied
Solution 144 Control Panel	2 Module Spaces
CM704B Zone Expander	1 Module Space
CM705B Universal Expander	2 Module Spaces
CM710B Output Expander	1 Module Space
CM720B LAN Power Supply	1 Module Space
CM760B Real Time Clock	1 Module Space
CM797B LAN Isolator Module	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, one module space will not be available as the mains transformer mounts in this location.

Installing Panels and Modules

Once the enclosure is secured in place, install the panels and modules onto the mounting clip using the supplied 3mm screws. Do not over tighten the screws.

When fitting panels or large modules, you should use 5 mounting clips, one in each corner of the PCB and one in the middle of the PCB underneath the main terminal blocks. When mounting small modules, only 4 clips are required, 1 in each corner.

Both enclosures are supplied with tamper switches, tamper leads, tamper brackets and a quantity of mounting clips and screws. If required, additional mounting clips and screws may be purchased in bags of 50 clips (10 packs x 5pcs). (P/N: MW890)

Note The supplied mounting clips are designed to use the 3mm machine screws supplied with the enclosure. The use of self tapping screws will damage the clips.

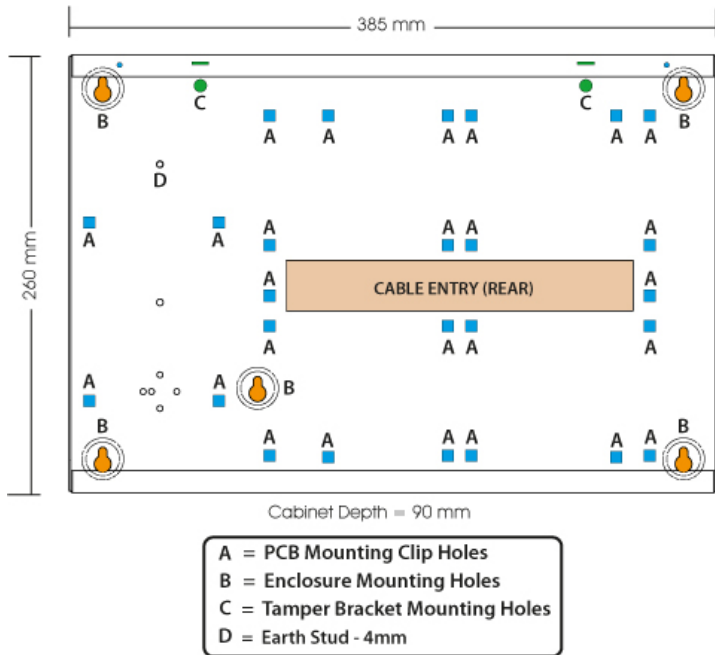


Figure 3: MW720B - Small Enclosure Details

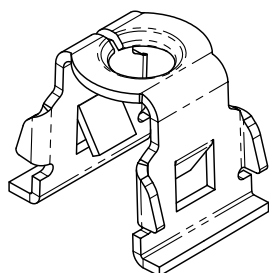
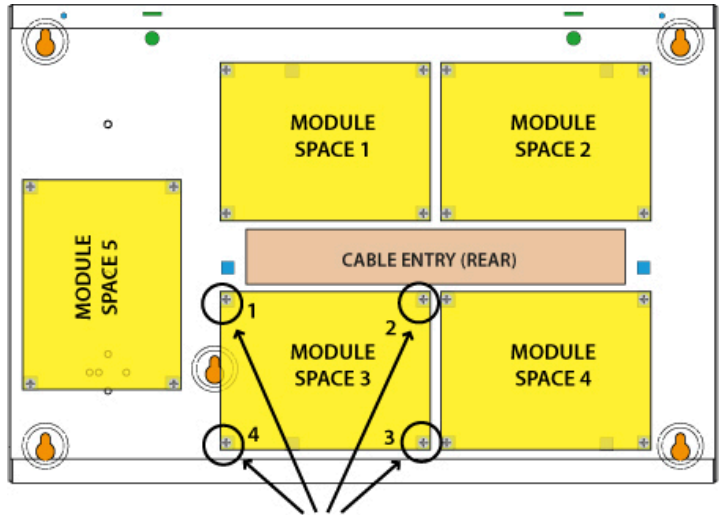
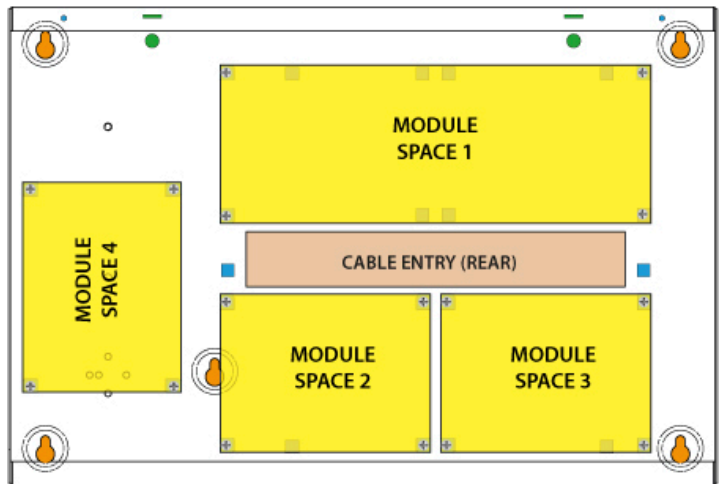


Figure 4: PCB Mounting Clip

The following example shows the MW720B - Small enclosure configured using 4 small modules.



When installing small modules, you should fit 4 mounting clips as shown.



When installing large modules, you should fit 5 mounting clips as shown. Clip 5 provides support under the main terminal block only. No screw is fitted.

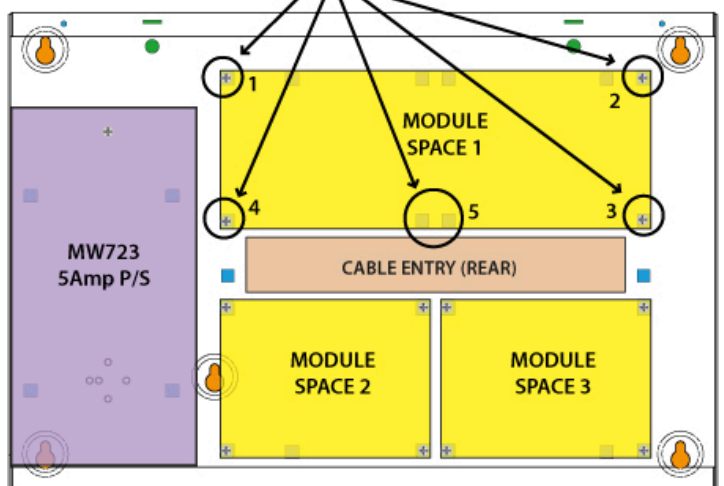


Figure 5: MW720B Configuration Examples

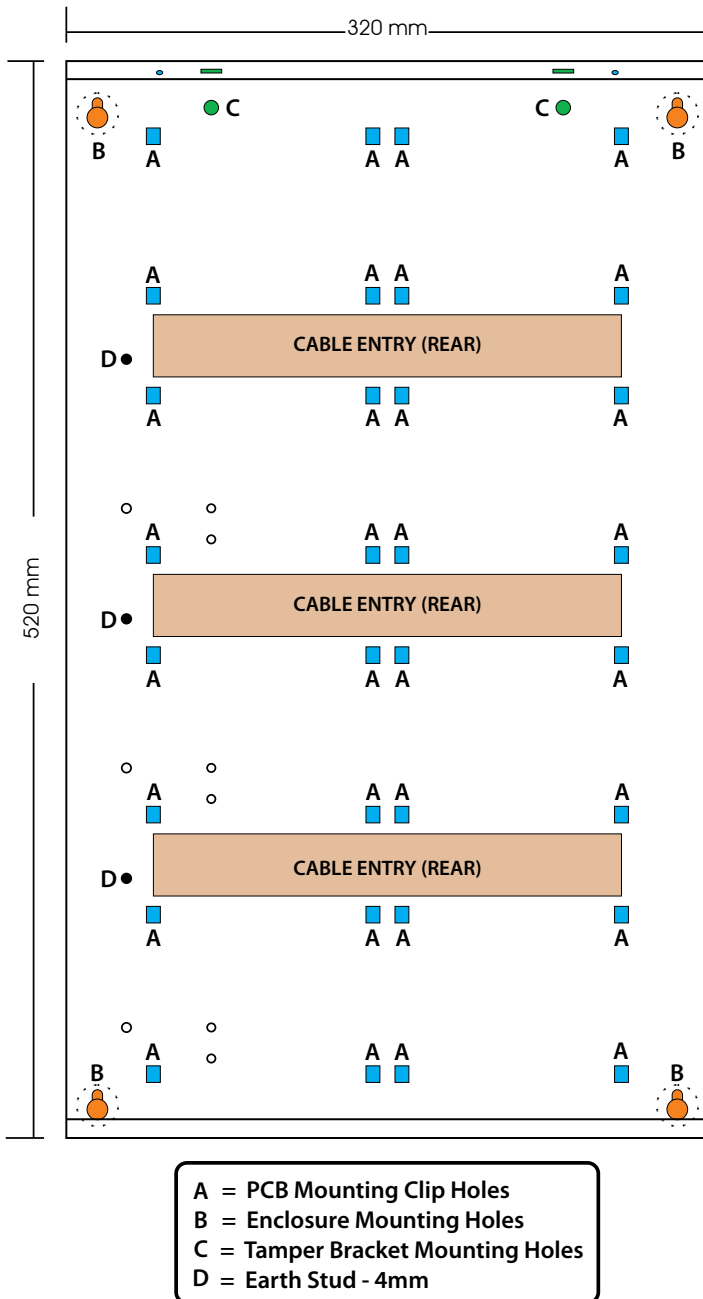
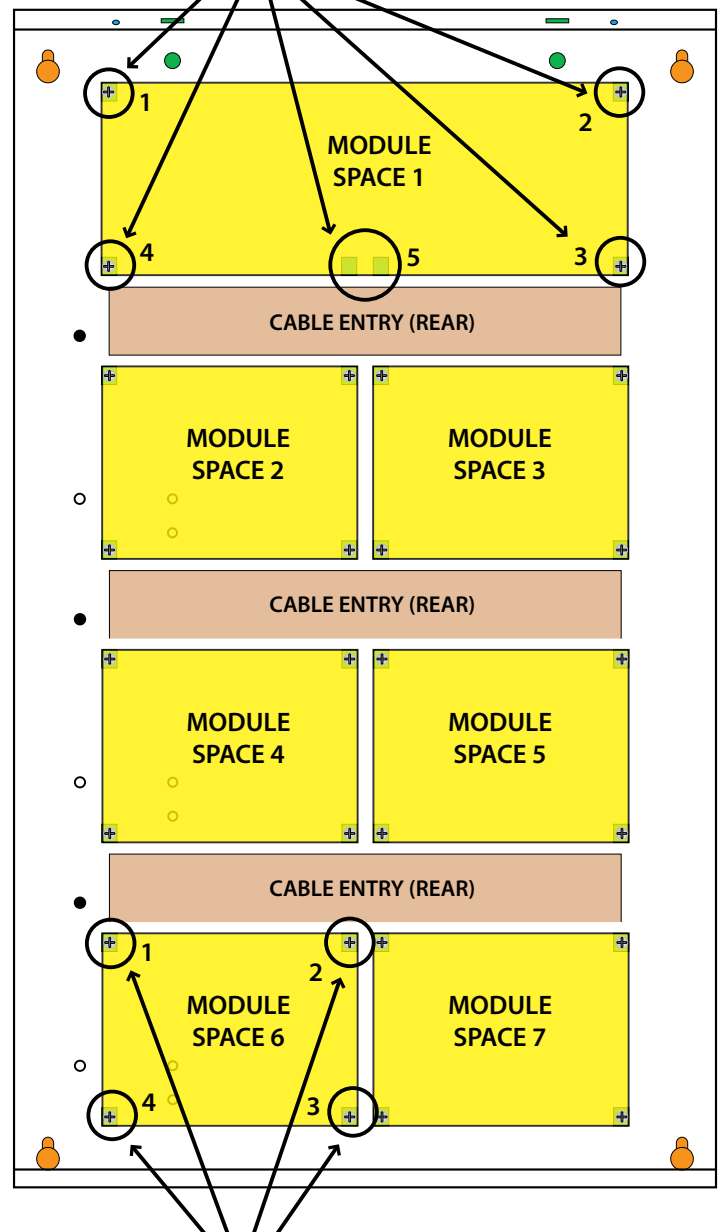


Figure 6: MW730B - Large Enclosure Details

The following examples show the MW710 -Large enclosure configured using 6 small modules and 1 large module.

When installing large modules you should fit 5 mounting clips as shown. Clip 5 provides support under the main terminal block only. No screw is fitted.



When installing small modules, you should fit 4 mounting clips as shown.

Figure 7: MW730B Configuration Examples

Connecting Power To The Panel

For normal operation, the panel requires both AC and DC power sources. The AC source can be provided either by an external adapter or by an internal transformer depending on the model and country of sale.

When connecting using the AC adapter, feed the cable in to the enclosure and terminate the wires on the removable terminal block supplied before connection it to the PCB.

If using a 3 wire adaptor, then the earth wire should also be terminated onto the terminal block. Always check the orientation of the terminal block with the PCB markings before connecting it to the PCB.

Connecting The Battery

The panel is supplied with a set of battery leads to suit the chosen enclosure. Connect the RED battery lead to the battery (+) terminal and the BLACK battery lead to the battery (-) terminal on the PCB.

Once terminated onto the PCB connect the other end of the leads to the battery paying attention to the polarity.

AC Mains Transformer Option

On models with an internal transformer, a permanent connection shall be made to the mains supply. See Figure 8. This must be completed by a suitably qualified electrician according to the applicable wiring standards and regulations.

Next connect the transformer output wires (red) to the removable terminal block supplied and then connect it to the PCB. Always check the orientation of the terminal block with the PCB markings before connecting.



Note For permanently connected equipment, a readily accessible disconnect device shall be installed in a location near to the equipment.

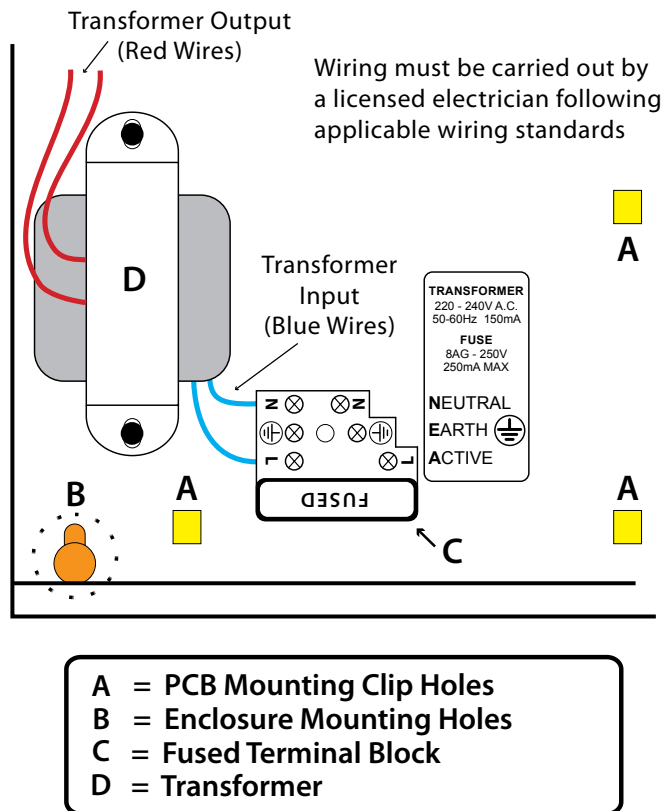


Figure 8: Internal Transformer Connection Diagram

Panel LED Indicators

The control panel 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	Error
On	Error
Flash Once Every 2 Seconds	OK
Flash Fast	AC or Battery Trouble

Table 3: Status Indicator LED



Note During factory defaulting the Status and Dialler LED indicators will flash alternatively for approximately 15 seconds.

Wiring Diagrams



Figure 9: N/C No EOL Zone

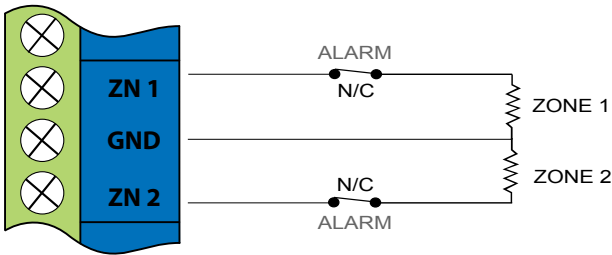


Figure 10: N/C Single EOL Zone

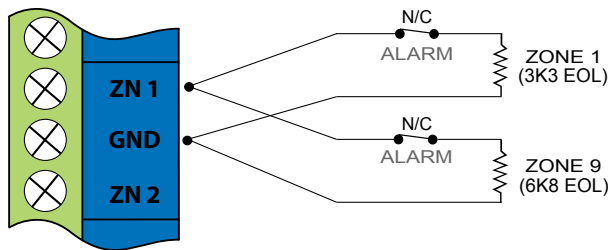


Figure 11: N/C Split EOL Zone

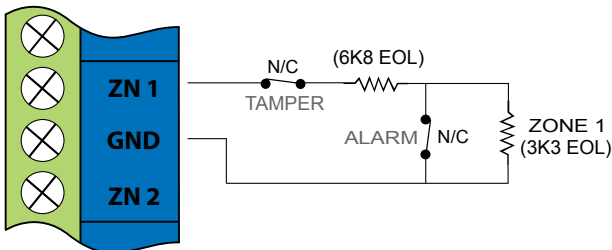


Figure 12: N/C Zone With Tamper



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.



Figure 13: N/O No EOL Zone

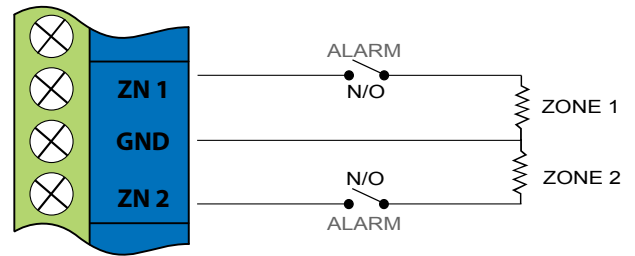


Figure 14: N/O Single EOL Zone

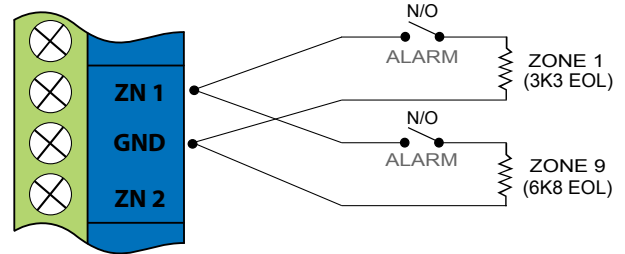


Figure 15: N/O Split EOL Zone

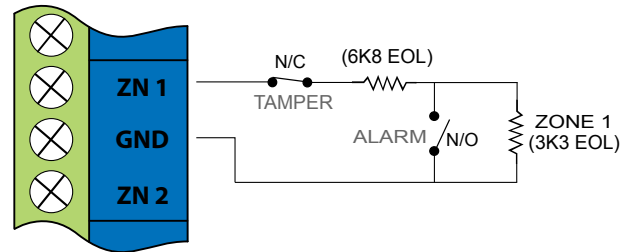


Figure 16: N/O Zone With Tamper

EOL Resistor Colours and Values

Use either the 4 colour, or solid colour resistors supplied.

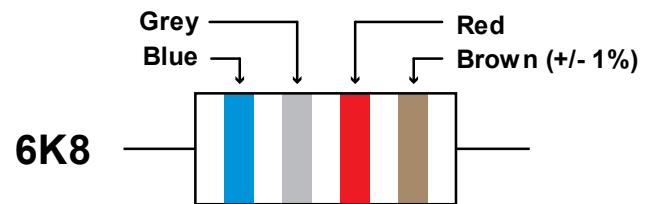
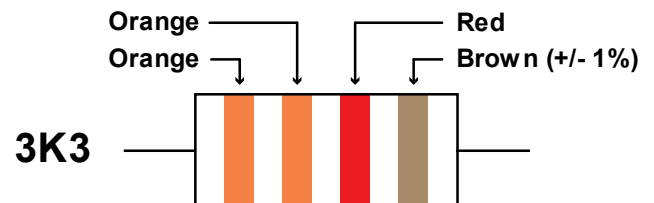


Figure 17: EOL Resistor Colour Chart

LAN Overview

The control panel communicates with other system module devices via the built in RS485 LAN or Local Area Network.

For increased security, the system uses anti-substitution technology and a proprietary data encryption algorithm to communicate with all LAN modules.

When using the recommended cable types the LAN can be up to 1200 metres in length, or even greater when LAN isolators are used.

See the CM797 LAN Isolation Module reference guide for more information on how to use LAN isolators to increase the overall LAN length, improve surge immunity protection and prevent earth loops.



It is recommended that one or more CM797 Isolators be used when connecting the LAN between multiple buildings.

LAN Wiring

Figure 18 and Figure 19 show the two recommended module connection diagrams.

The method shown in Figure 18, is only recommended for use where the total LAN length is 300 metres or less and the system is not installed in a electrically noisy environment. In this case it is possible to use 7/0.20 or 14/0.20 security cable (non twisted) provided that module voltage levels are maintained within specification.

The method shown in Figure 19, offers the greatest immunity to noise interference and voltage surges. This connection method is recommended where the total LAN length is greater than 300 metres. When using twisted pair cable the LAN length can be up to 1200 metres, and this can be extended even further when using LAN isolators.

The LAN can be wired using the daisy chain method as shown, where each module is wired back to the panel on the same cable run or using a star configuration, where individual modules are wired back to the panel on individual wires.

Un-shielded cable can be used successfully in many situations however for the highest reliability and performance in areas prone to frequent electrical storms or high levels of electrical interference, shielded twisted pair cable should be used.

LAN+ and LAN- should not be used to power detectors or other external devices. These devices should be powered from the +12V terminals on the panel or via an external power supply.

When wiring modules with built in power supplies like the control panel and the CM720B Power Supply, do NOT connect the EARTH wire from any 3 wire plug pack to the module's EARTH input terminal, if you have installed a separate communication earth wire.

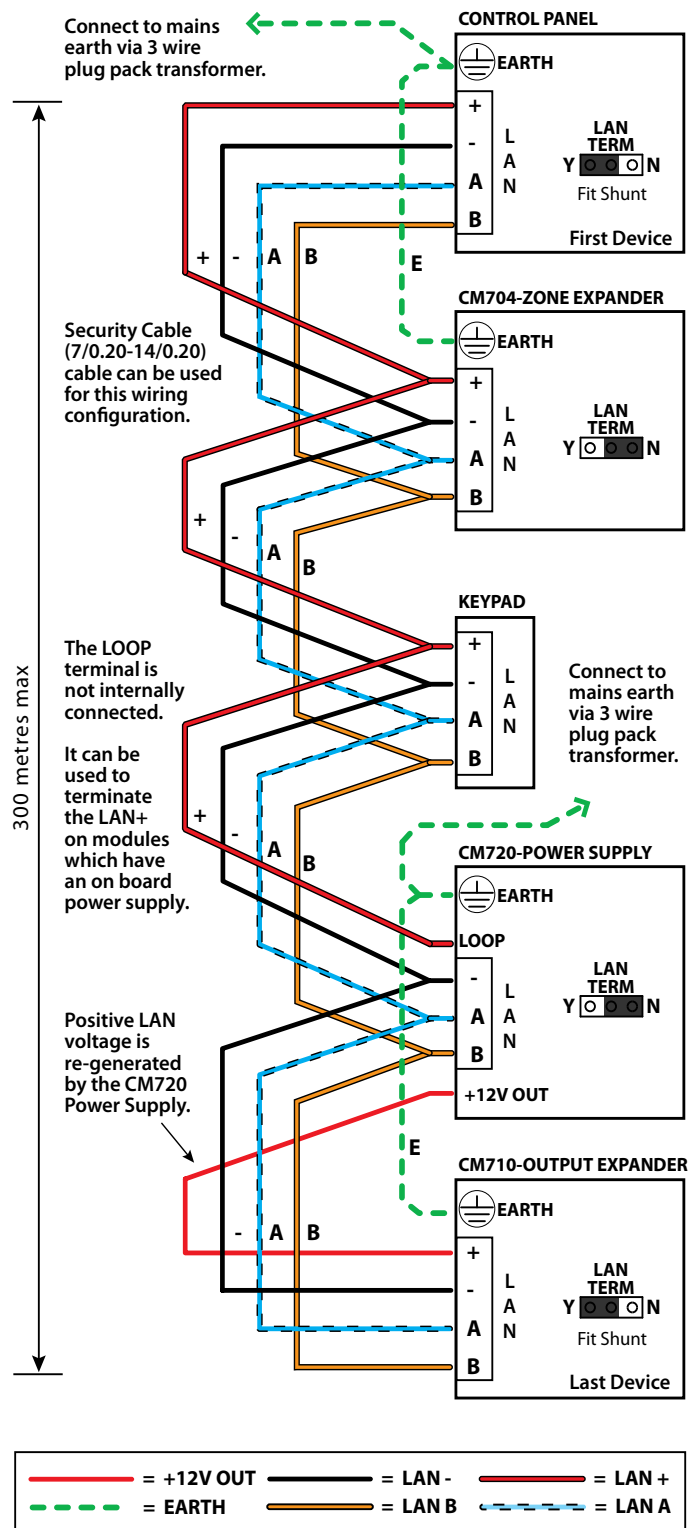


Figure 18: LAN Connection Using 2 Pair Security Cable

The LAN A and LAN B wires are not interchangeable. Make sure that the LAN A wires from all modules connect to LAN A on the panel and LAN B wires from all modules connect to LAN B on the panel.

Do not connect the positives of two power supply sources together. When wiring the LAN to modules that are self powered, or powered from an external source you should terminate the LAN+ into the terminal marked LOOP. This terminal is simply a termination point and is not internally connected.

System Earthing

When running a CET communications Earth as per Figure 19, the communication earth should be connected to the earth terminal on each module and then connected back through the CET to the main building earth conductor.

Do NOT connect the plug pack transformers earth wire to any modules earth terminal.

Note *If a separate Communications Earth wire is installed, do NOT connect the EARTH wire from any 3 wire plug pack to any modules EARTH input terminal.*

If a separate communications earth is NOT being used, then you should connect the earth wire from the 3 wire plug pack to the panels earth terminal as shown in Figure 19.

When using shielded cable, the shield of each length of cable should only be connected to a protective earth at one end. Do not allow the shield to make contact with negative 0 volts, ground or any other wiring within the system.

All earth wiring should be carried out in accordance with the local wiring regulations in your area.

Terminating the LAN

For reliable operation, the system LAN must be terminated correctly. The control panel and all LAN modules include a LAN TERM pin header and shunt which is used to connect the termination resistor on the module.

When the shunt is installed between the Y pin and the centre pin, the terminator is fitted and when the shunt is between the N pin and the centre pin the terminator is not fitted.

Where all modules are connected to the panel on a single cable run, (Daisy Chained) the terminators should be installed on the first and last modules on the LAN.

If the modules are connected to the panel via multiple cables all running back to the control panel (Star Configuration) then the terminators should be installed on the modules at the end of the two longest cable runs.

There are no LAN terminators on keypads. If a keypad is one of the two furthest devices from the control panel then a 470 ohm 1/2watt resistor can be fitted at the keypad between the LAN A and LAN B terminals.

Note *The LAN must be terminated correctly for correct operation.*

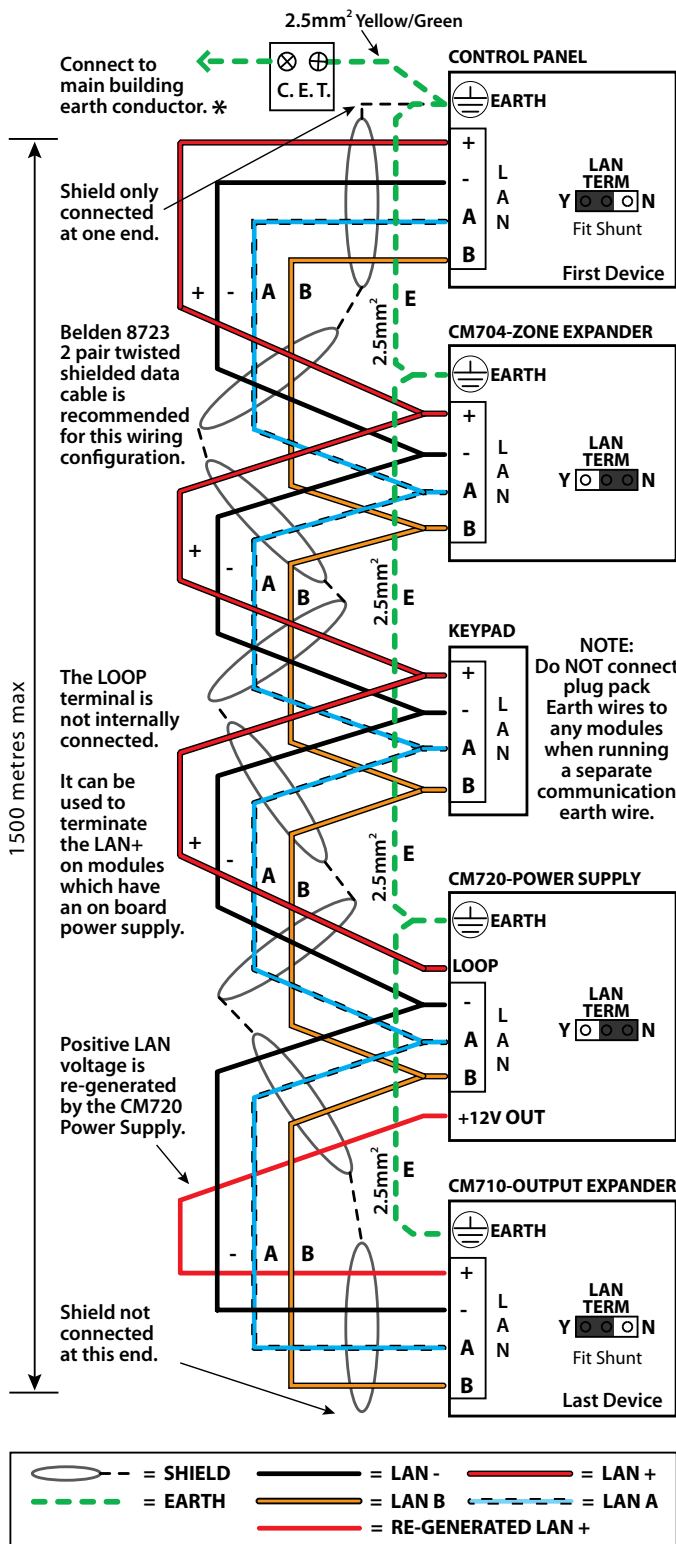


Figure 19: LAN Connection Using Twisted Pair Cable

The LAN- terminals from all modules must be connected together for correct operation.

PCB Layout

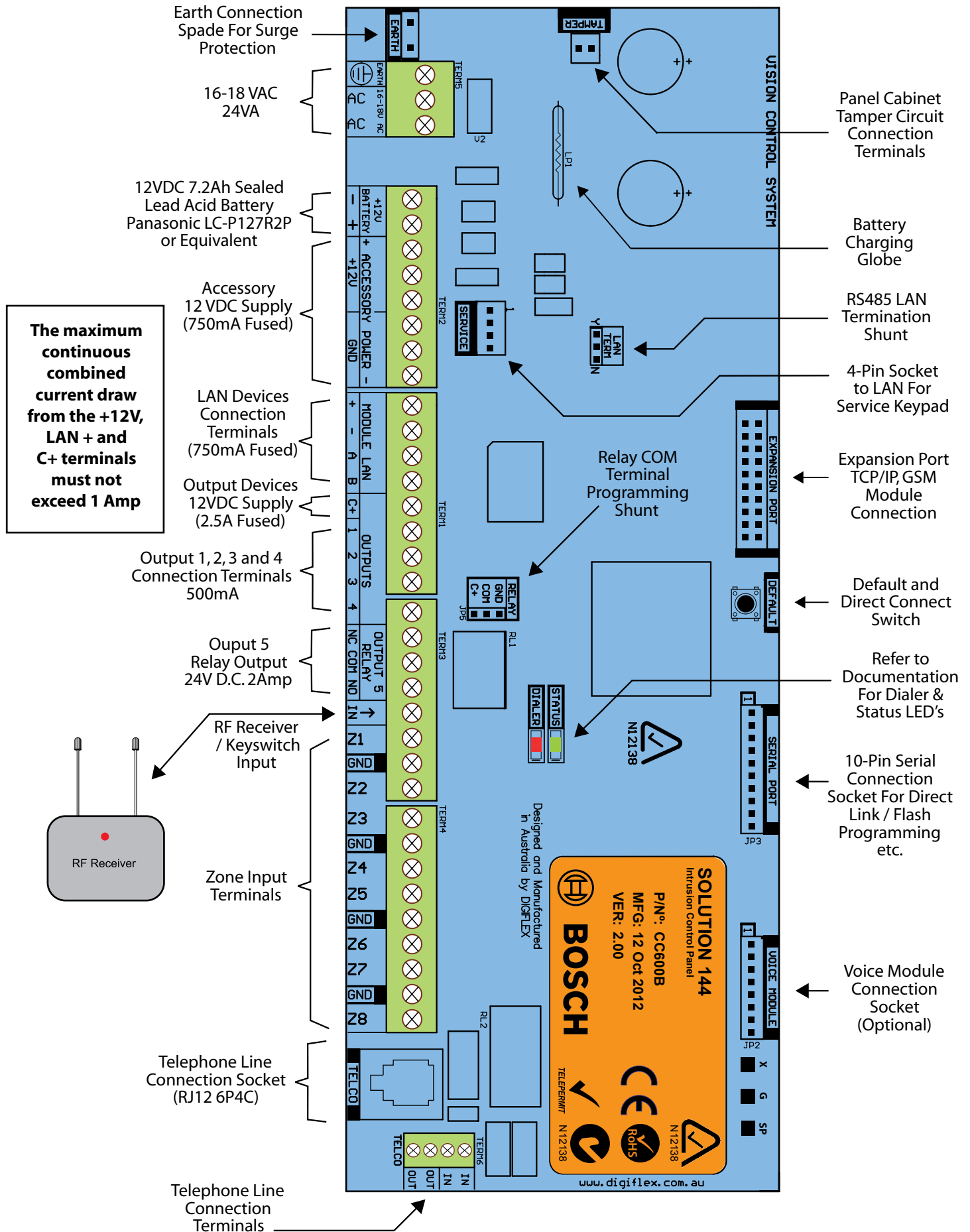
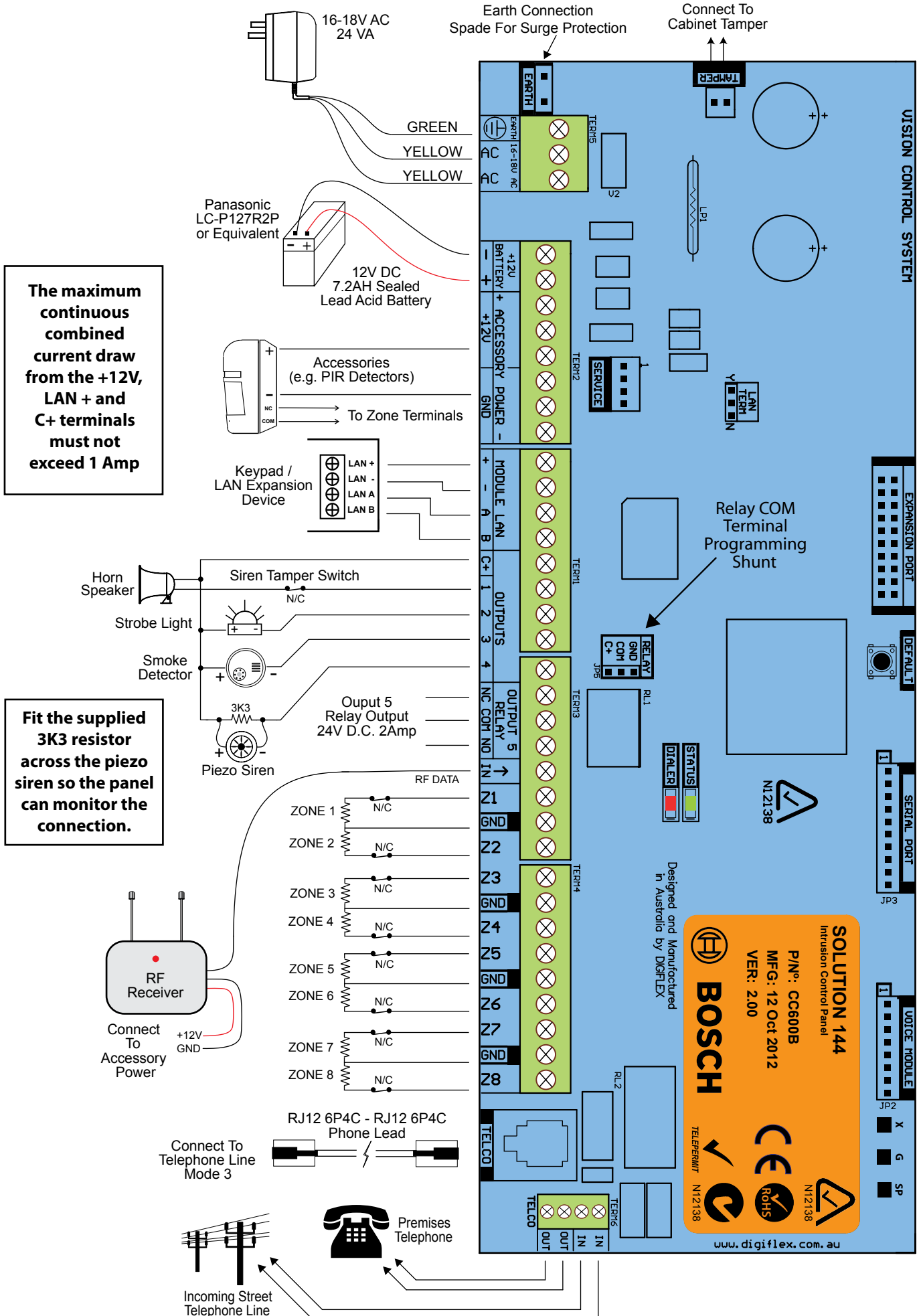


Figure 20: Solution 144 Board Layout

Connection Diagram



The maximum continuous combined current draw from the +12V, LAN + and C+ terminals must not exceed 1 Amp

Fit the supplied 3K3 resistor across the piezo siren so the panel can monitor the connection.

Figure 21: Solution 144 Connection Diagram

Terminal Descriptions

N°	Name	Description
1	Earth	Earth wire from this terminal is connected to the Mains earth.
2	~ (AC)	Connection of the AC plug pack transformer
3	~ (AC)	
4	BAT (-)	Negative and positive connections to the stand-by battery. 12 VDC / 7AH
5	BAT (+)	
6	+12 V	These terminals are used to power detectors and LAN devices up to 750 mA.
7	+12 V	
8	+12 V	
9	GND	
10	GND	
11	GND	
12	LAN +	These terminals are used to power LAN devices up to 750 mA.
13	LAN -	
14	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.
15	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.
16	COMM+	Alarm power capable of providing a maximum of 2.5 Amp (+). This terminal is PTC Fuse protected.
17	OUT 1	Programmable output, capable of providing a maximum of 500 mA (-). This terminal is PTC Fuse protected.
18	OUT 2	
19	OUT 3	
20	OUT 4	
21	N/C	2 A @ 24 VDC Relay Output - Form C contact
22	COM	
23	N/O	
24	INPUT	Programmable Input for RF Receivers, Keyswitch and other devices.
25	ZN 1	Zone 1 and 9 sensor loop input (+).
26	GND	Common (-) for Zone 1 and 2 sensor loop.
27	ZN 2	Zone 2 and 10 sensor loop input (+).
28	ZN 3	Zone 3 and 11 sensor loop input (+).
29	GND	Common (-) for Zone 3 and 4 sensor loop.
30	ZN 4	Zone 4 and 12 sensor loop input (+).
31	ZN 5	Zone 5 and 13 sensor loop input (+).
32	GND	Common (-) for Zone 5 and 6 sensor loop.
33	ZN 6	Zone 6 and 14 sensor loop input (+).
34	ZN 7	Zone 7 and 15 sensor loop input (+).

N°	Name	Description
35	GND	Common (-) for Zone 7 and 8 sensor loop.
36	ZN 8	Zone 8 and 16 sensor loop input (+).
37	IN	These terminals are used to connect the telephone line from the street.
38	IN	
39	OUT	These terminals are used to connect the premises telephones.
40	OUT	

Table 4: Terminal Block Descriptions



The maximum combined continuous current draw from the +12V, LAN + and COMM+ terminals must not exceed 1 Amp

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 panel enclosure tamper switch.
Default	This push button is used to reset the control panel back to factory default.
Voice Module	This is used to connect the optional Voice Command Module (CM101B).
Serial	This socket is used to connect serial devices to the control system like the direct link programming module.
Telco	This is a RJ12 6P/4C connector that allows you to connect the control panel to the PSTN telephone line.
Relay	The relay select PIN's allow you to easily program the relay common contact to switch either +12v or GND by fitting a plug on link.
Expansion Port	This port is used to connect additional modules to the control panel (eg. TCP/IP Interface Module etc)

Table 5: Board Connector Descriptions

About The Keypad

The keypad has 20 keys that allow you to input instructions and navigate the programming menu's as required. Some keys have a secondary function which is activated by pressing and holding them down for two seconds. Each key is described below.

Key	Description
0 to 9	The numeric keys allow you to enter your user PIN when required.
MENU	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.
ALL ON ON	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.
BYPASS PART	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 after you enter your PIN.
ALL OFF OFF	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 after you enter your PIN.
OK	The [OK] key allows you to save any changes and exit the command.
TEST MAIL	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.

Key	Description
↓	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	Press and hold the [→] and [↑] keys together for 2 seconds will initiate a panic emergency alarm to be triggered. If programmed, the sirens will sound and the monitoring station will be notified.
← + → for 2 sec	Press and hold the [←] and [→] keys together for 2 seconds will initiate a fire emergency alarm to be triggered. If programmed, the sirens will sound and the monitoring station will be notified.
↑ + ↓ for 2 sec	Press and hold the [↑] and [↓] keys together for 2 seconds will initiate a medical emergency alarm to be triggered. If programmed, the sirens will sound and the monitoring station will be notified.

Table 6: Keypad Key Functions

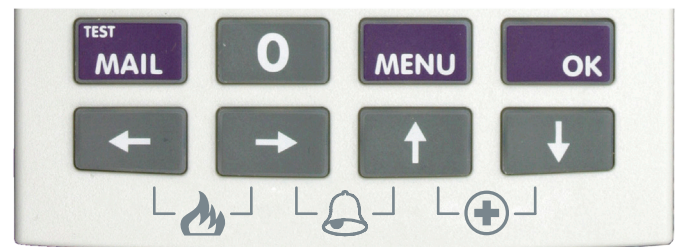


Figure 22: Keypad Emergency Alarm Trigger's

Status Icons / LED's

The following table lists the function of each of the ICON symbols and LED indicators on the keypad display.

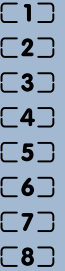








Icon	Status	Meaning
	The keypad can be programmed to display area icons (1 to 8) that allow users to easily identify which areas have been turned on or off without the need to toggle between areas (See MENU 6-1-4).	
	On	The area is turned All On or Part On
	Off	The area is turned Off
	Flashing Fast	The area has an alarm
	On	System power is normal
	Flashing	System power is missing
	Flashing	A fire alarm is active
	Off	No fire alarm
	On	Fire alarm in memory (Turn the area All On and Off to Clear).
	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.
	On	The area is turned Part On.
	Off	The area is not turned Part On.
	On	The area is turned off.
	Off	The area is turned All On or Part On
	On	The area is turned All On or Part On
	Off	The area is turned Off
	On	All messages have been read.
	Off	Message queue is empty
	Flash	An unread message is in the queue.
	On	Area is ready to turn on (All On / Part On)
	Off	Not ready, Zone Open
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.

Table 7: ICON & LED Indicator Meanings

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.
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 enter an incorrect value when programming, the keypad will sound a 2 second tone.
Menu Mode	The keypad will sound a Lo/Hi tone to indicate you have entered MENU Mode and a Hi/Low 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.

Table 8: Keypad Tones

Keypad & Readers Setup

The control panel can have a maximum of 16 keypads and/or readers connected via the LAN terminals. Each keypad or reader must be set to a unique address before they will operate.

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

Set each keypad or reader address using "Table 9: DIP Switch Address Settings" on page 17 and "Table 10: Rotary Switch Address Settings" on page 17 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-OFF).

DIP Switch Address Select

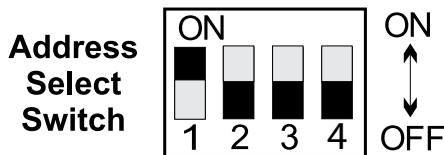


Figure 23: Keypad DIP Switch Address Settings

DIP Switch Address Settings				
Keypad/Reader N°	S1	S2	S3	S4
1	Off	Off	Off	Off
2	On	Off	Off	Off
3	Off	On	Off	Off
4	On	On	Off	Off
5	Off	Off	On	Off
6	On	Off	On	Off
7	Off	On	On	Off
8	On	On	On	Off
9	Off	Off	Off	On
10	On	Off	Off	On
11	Off	On	Off	On
12	On	On	Off	On
13	Off	Off	On	On
14	On	Off	On	On
15	Off	On	On	On
16	On	On	On	On

Table 9: DIP Switch Address Settings

Rotary Switch Address Select

Keypads and readers fitted to the system must be assigned a unique address on the LAN. Some keypads and readers include a rotary address switch for quick selection.

The following table shows how to set the address setting for each keypad and reader, as well as the number of devices the panel can support.

Rotary Switch Address Settings	
Address Number	Keypad/Reader N°
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16

Table 10: Rotary Switch Address Settings

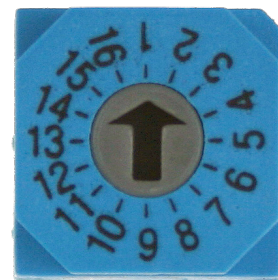


Figure 24: Rotary Switch Address Settings

DTMF Control Functions

Firmware 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 DTMF Control

- 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.
- 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.
- 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	Tone Response
Quick Arm All Areas	[0] + [#]	High, Medium, Low
Log In OK	[PIN] + [#]	Low, High
Error	Incorrect Entry	Long Beep
Turn Area ON	[1] + [Area N°] + [#] + [1]	Low, High
Turn Area OFF	[1] + [Area N°] + [#] + [2]	High, Low
Turn Output ON	[2] + [Output N°] + [#] + [1]	Low, High
Turn Output OFF	[2] + [Output N°] + [#] + [2]	High, Low
End Session	[#] + [#]	High, Medium, Low

Table 11: 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

[2] [5] [8] [0] [#] = Log ON

[1] + [1] + [#] + [1] = Arm Area 1

To turn Output 10 ON enter the following

[2] [5] [8] [0] [#] = Log ON

[2] + [1] [0] + [#] + [1] = Turn Output 10 ON

To turn Output 12 OFF enter the following

[2] [5] [8] [0] [#] = Log ON

[2] + [1] [2] + [#] + [2] = 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.

Programming Overview

The control panel incorporates a menu text driven interface. This interface is very similar to that found on many mobile phones. 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.

Entering Programming Mode

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

The default Installer PIN is 1234.

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

Exiting Programming Mode

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

Navigating The Menu

Using the up and down arrow keys to navigate, locate the desired menu item using the highlight bar and then press the [OK] key to select.

A new list of menu items will appear. Repeat the above until the desired menu item is located.

To navigate backwards through the menu items press the [MENU] key at any time. Alternatively if you know the direct menu item number press [MENU] + Item Number.

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
0 to 9	Enter Data Value
ON	Turn On Bit Option
OFF	Turn Off Bit Option, Clear to End of Line

Table 12: Keys Used During Programming

Command Menu

When you first enter programming mode a special menu called the Command Menu will appear at the top of the menu tree. The Command Menu provides a list of the most common system functions like "Turn Chime Mode On", "Move To An Area" or "Turn An Area On". Use the up and down arrow keys to navigate and press [OK] to select the command.

Programming Option Bit Menus

Use the up and down arrow keys to scroll through the 8 different options. To select an option, press the [ON] key – a tick [✓] will be displayed. To deselect an option, press the [OFF] key.

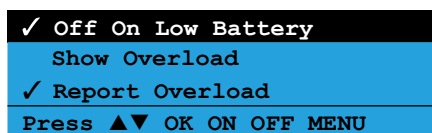


Figure 25: Sample Option Bit Menu Display

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

Alpha Text

Text descriptions are available for Area Name, Zone Name, User Name, TimeZone Name, Holiday Name Prox Reader Name and Output Name. Each name can have a maximum of 20 characters.

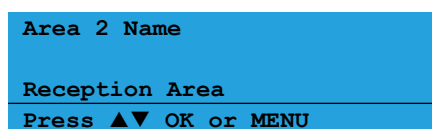


Figure 26: Area Text Programming Display

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 13: 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.



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

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).

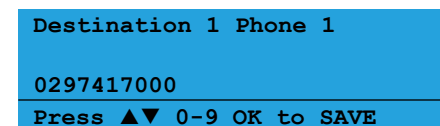


Figure 27: Telephone Number Programming Display

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 14: Phone Number Character Set

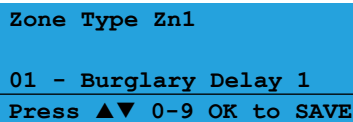
To save programming changes, press [OK], else press [MENU] to exit without saving.

List Options

Use the [↑] and [↓] keys to step through the available options. Press [OK] to save or [MENU] to exit without saving.



You can also enter the option number directly followed by [OK].



Zone Type Zn1
01 - Burglary Delay 1
Press ▲▼ 0-9 OK to SAVE

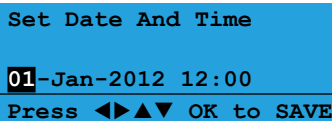
Figure 28: List Option Programming Display

Clock Programming

Use the left and right arrow keys to move to the field then use the up and down arrow keys to change. Press [OK] to save or [MENU] to exit without saving.



Scroll through hours to change from am to pm.



Set Date And Time
01-Jan-2012 12:00
Press ◀▶▲▼ OK to SAVE

Figure 29: Clock Programming Display

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 programming mode.
[1][2][3][4] + [MENU]
2. Set date and time.
MENU 7-1-0
3. Change default installer PIN.
MENU 1-5-2
4. Change default master PIN.
MENU 1-1-1
5. Enter (Client) account number for Area 1.
MENU 2-2-0
6. Enter base station primary telephone number.
MENU 5-1-1
7. Enter base station secondary telephone number.
MENU 5-1-2
8. Press and hold down [MENU] 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 programming mode.
[1][2][3][4] + [MENU]
2. Turn service mode on.
MENU 7-0-8
3. Follow display prompts.
4. Hold down [MENU] to exit.



Keypads will display the word Service when service mode is active.

To Turn Service Mode OFF

1. Enter programming mode.
[1][2][3][4] + [MENU]
2. Turn service mode off.
MENU 7-0-8
3. Follow display prompts.
4. Hold down [MENU] to exit.



Keypads will display the word Service 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, then apply power to the control panel.
3. Release the default button, The panel will reset and revert to normal operation when default is complete.

To Software Default

1. Enter programming mode.
[1][2][3][4] + [MENU]
2. Select factory default option.
MENU 7-0-4
3. The panel will reset and revert to normal operation when the default is complete.



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 CM255B 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 using MENU 7-0-3.

Program Option	Domestic Default Value
All Trouble Reports	Disabled
All Bypass Reports	Disabled
All Restore Reports	Disabled
Destination 1 TX Format	Domestic Reporting
Access Route	Log Only
Open / Close Reports	Log Only
Test Route	Log Only
System Route	Log Only

Table 15: Domestic Default 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 CM900B Direct Link module which connected 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 20: for the default switch location. It is also possible to initiate the programming session via MENU 5-0-5 - Start Direct Link.

Zone Array

The feature allows you to view the condition of all zones on the panel in banks of 16 zones at a time. From the installer programming mode press MENU 3-0-1 to access the zone array.

Use the [↑] and [↓] arrow keys to scroll up and down the zone banks and press [OK] or [MENU] when finished.

The following information can be displayed depending on the current zone status.

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

```
0000000001111111
1234567890123456
NSA-ANAT-----
PRESS ▲▼, OK or MENU
```

In the above example screen,

N = Zone 01 and 06 are Normal (Sealed)
S = Zone 02 is Shorted
A = Zone 03,05,07 are in Alarm (Unsealed)
T = Zone 08 is in Tamper Alarm (Unsealed)
- = Zone 04, 09-16 are Disabled (Unused)

Door Array

This feature allows you to view door status in groups of 16. From the installer programming mode press MENU 4-0-4 to access the output array.

Press [OK] or [MENU] when finished.

The following information can be displayed depending on the current zone status.

L = Door Locked
U = Door Unlocked
O = Override
- = Disabled or Not Available

```
0000000001111111
1234567890123456
LLLLL---UUUUO---
Press ▲▼ OK or MENU
```

In the above example screen,
L = Doors 01 to 05 are Locked
O = Door 13 has a Override condition
U = Doors 09 to 12 area Unlocked
- = Doors 06 to 08 and Doors 14 to 16 are Disabled or Not Available

Output Array

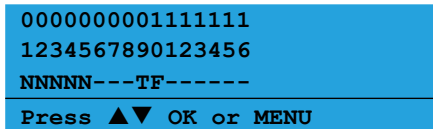
This feature allows you to view output status in groups of 16. From the installer programming mode press MENU 4-0-2 to access the output array.

Use the up and down arrow keys to scroll up and down the output banks and press [OK] or [MENU] when finished.

The following information can be displayed depending on the current zone status.

- N = NORMAL - Off Condition
- T = TRIGGERED - On Condition
- F = FAULT - Overload Condition
- = DISABLED

1. Enter [MENU] + [4] + [0] + [2] and use the up and down arrows to select the output group to view.
2. Use the [↑] and [↓] down arrows at any time to move to a new group. The keypad will display the following output array information for outputs 1 to 16.



In the above example screen,

- N = Outputs 01 to 05 are Normal (Off)
- F = Output 10 has a Fault (Overload)
- T = Output 09 is Triggered (On)
- = Outputs 05 to 08 and Outputs 11 to 16 are Disabled or Not Available

Basic Reporting Reference

A complete reporting template is available on the Solution Link CD or from your nearest Bosch security products outlet. Your base station will need to create a specific reporting template for this and other new model Solution panels.

Point ID Table	Module Description
Ur999	Installer
Ur998	Remote User
Ur997	TimeZone
Ur996	Guard Tour
Ur001 - 995	Users
Ur000	Quick Arm
Zn001 - 200	Zones General
Zn201 - 264	Doors 1 - 64 or Zones 201 - 264
Zn301 - 428	User Keyfob 1-128
Zn429 - 556	User Keyfob 129 - 256
Zn701 - 708	Door Controller 1 - 8
Zn711 - 718	Door Controller 9 - 16

Zn761 - 768	Lift Controller 1 - 8
Zn771 - 778	Lift Controller 9 - 16
Zn781 - 788	Input Expander 1 - 8
Zn791 - 798	Input Expander 9 - 16
Zn801 - 808	Universal Expander 1 - 8
Zn811 - 818	Universal Expander 9 - 16
Zn821 - 828	RF Receiver 1 - 8
Zn831 - 838	LAN Power Supply 1 - 8
Zn841 - 848	Serial Expander 1 - 8
Zn851 - 858	Output Expander 1 - 8
Zn860	GSM Module
Zn861	GSM Input 1
Zn862	GSM Input 2
Zn863	GSM Input 3
Zn864	GSM Input 4
Zn870	Ethernet Module
Zn871	Real Time Clock Module
Zn872	Voice Module
Zn873	Service Keypad
Zn881 - 888	Consoles 1 - 8
Zn891 - 898	Control Panel 1 - 8
Zn911 - 918	LAN Isolator 1 - 8
Zn921 - 928	LAN Isolator 9 - 16
Zn901 - 908	Destination Route 1 - 8
Zn971 - 978	Consoles 9 - 16
Zn901 - 908	Destination Route 1 - 8
Zn911 - 918	LAN Isolator 1 - 8
Zn921 - 928	LAN Isolator 9 - 16
Zn931 - 938	LAN Power Supply 9 - 16
Zn951 - 958	Output Expander 9 - 16
Zn971 - 978	Consoles 9 - 16

Table 16: Shortform Point ID Listing

Menu Reference Table

The Solution Controller 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;

1. A = All (No PIN Required)
2. U = User PIN Has Access
3. M = Master PIN Has Access
4. I = Installer PIN Has Access

The following table lists all programming menus 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	AUMI	2-0 Commands
UMI	2-0-2	Turn All Areas On	MI 1-0-0	UMI	2-0-0
UMI	2-0-3	Turn All Areas Off		UMI	2-0-1
UMI	2-0-4	Move To Area	1-1 PIN Codes	UMI	2-0-2
AUMI	2-0-5	Chime On/Off	UMI 1-1-0	UMI	2-0-3
UMI	1-1-0	Change Own PIN	MI 1-1-1	UMI	2-0-4
AUMI	3-0-0	Zone Status	MI 1-1-2	AUMI	2-0-5
AUMI	4-0-0	Output Status	MI 1-1-3	MI	2-0-6
UMI	4-0-1	Turn Output On/Off	I 1-1-4		
MI	7-1-0	Set Date And Time	1-2 Token		2-1 Area Properties
UMI	3-0-5	Smoke Sensor Reset	MI 1-2-0	MI	2-1-0
UMI	3-9-0	Walk Test All Zones	MI 1-2-1	I	2-1-1
MI	4-9-0	External Siren Test	MI 1-2-2	I	2-1-2
MI	4-9-1	Internal Siren Test	MI 1-2-3	I	2-1-3
MI	4-9-2	Strobe Test		I	2-1-4
UMI	5-0-1	Call/Answer RAS	1-3 RF Keyfob	I	2-1-5
UMI	7-9-1	Battery Test	MI 1-3-0	MI	2-1-6
UMI	5-9-0	Test Dialler	MI 1-3-1	MI	2-1-7
I	7-0-8	Service Mode	I 1-3-2	MI	2-1-8
UMI		About			
			1-4 User Properties		2-2 Reporting
			MI 1-4-0	I	2-2-0
			MI 1-4-1	I	2-2-1
			MI 1-4-2	I	2-2-2
			MI 1-4-4		
			MI 1-4-5		2-8 Timers
			MI 1-4-6	MI	2-8-0
				MI	2-8-1
				MI	2-8-2
			1-5 Global Properties	MI	2-8-3
			I 1-5-0	I	2-8-4
			I 1-5-1	I	2-8-6
			I 1-5-2		
			1-6 Reporting		2-9 Area Testing
			I 1-6-0	I	2-9-0
			I 1-6-1	I	2-9-1
				I	2-9-2
				I	2-9-3
			1-8 Fingerprint		
			MI 1-8-0		
			MI 1-8-1		
			MI 1-8-2		

3 Inputs			4 Outputs			5 Comms		
	3-0	Commands		4-0	Commands		5-0	Commands
AUMI	3-0-0	Zone Status	AUMI	4-0-0	Output Status	UMI	5-0-1	Call /Answer RAS
MI	3-0-1	Zone Array	UMI	4-0-1	Turn Output On/Off	MI	5-0-2	Call Forward On/Off
UMI	3-0-2	Bypass Zones	MI	4-0-2	Output Array	MI	5-0-3	Check Web Email
MI	3-0-3	Set Chime Zones	MI	4-0-3	Door Status	MI	5-0-4	Email System Log
MI	3-0-4	Set Part 2 Zones	MI	4-0-4	Door Array	MI	5-0-5	Start Direct Link
UMI	3-0-5	Smoke Sensor Reset	MI	4-0-5	Door Override	MI	5-0-6	Voice Setup
						MI	5-0-8	Register Customer
						I	5-0-9	Register Installer
	3-1	Zone Properties		4-1	Properties		5-1	Telephone Numbers
MI	3-1-0	Zone Name	MI	4-1-0	Output Name			
I	3-1-1	Zone Type	I	4-1-1	Event Type	I	5-1-0	Number Prefix
I	3-1-2	Area Assignment	I	4-1-2	Event Assignment	MI	5-1-1	Destination 1
I	3-1-3	Pulse Count	I	4-1-3	Output Polarity	MI	5-1-2	Destination 2
I	3-1-4	Pulse Count Time	I	4-1-4	Time Parameter	MI	5-1-6	Call Forward On
I	3-1-5	Door Assignment	I	4-1-5	Output Options	MI	5-1-7	Call Forward Off
I	3-1-6	Report Route						
I	3-1-7	Report Options						
I	3-1-8	Zone Options						
	3-3	RF Zone		4-2	Door Properties		5-2	Properties
I	3-3-0	Add RF Device	MI	4-2-0	Door Name	I	5-2-0	Call Attempt Count
I	3-3-1	Delete RF Device	I	4-2-2	Unlock TimeZone	I	5-2-1	Dialler Options
I	3-3-2	Test RF Device	I	4-2-3	Door Options	I	5-2-2	Phone Line Options
						I	5-2-3	Country
						I	5-2-7	Set SMS Password
	3-4	Global Input Options	MI	4-9	Output Testing		5-3	Remote Access
I	3-4-0	EOL Value	MI	4-9-0	External Siren Test	I	5-3-0	Call Back Number
I	3-4-1	Keyswitch Options	MI	4-9-1	Internal Siren Test	I	5-3-1	RAS Security PIN
I	3-4-2	Input Options	MI	4-9-2	Strobe Test	I	5-3-2	Log Threshold
						I	5-3-3	Ring Count
	3-5	PGM Input				I	5-3-4	RAS Options
I	3-5-0	Input Type				I	5-3-5	DTMF Options
						I	5-3-6	Voice Access Code
	3-6	Tamper Inputs				I	5-3-7	CLI Numbers
I	3-6-0	Tamper Options				I	5-3-8	User RAS PIN
	3-9	Input Testing					5-4	Reporting
UMI	3-9-0	Walk Test All Zones				I	5-4-0	TX Format Dest 1
UMI	3-9-1	Walk Test A Zone				I	5-4-1	TX Format Dest 2
I	3-9-2	Sensor Watch Time				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
							5-5	MyAlarm
						I	5-5-0	IP Address
						I	5-5-1	IP Port
						I	5-5-2	MyAlarm Options
						I	5-5-7	Gateway Numbers
						MI	5-5-8	Email Address
						MI	5-5-9	Email Options

		6	Devices	7	System
			6-0 Commands		7-0 Commands
I	5-6	UMI	6-0-0 Device Status	UMI	7-0-0 Panel Status
I	5-6-0	I	6-0-1 LAN Secure	UMI	7-0-1 System Trouble
I	5-6-1	I	6-0-2 LAN Scan	UMI	7-0-2 History Log
I	5-6-2	I	6-0-3 LAN Watch	I	7-0-3 Domestic Default
I	5-6-3	MI	6-0-7 Keypad Volume	I	7-0-4 Factory Default
I	5-6-4	MI	6-0-8 Keypad Contrast	I	7-0-5 Template Default
I	5-6-5	MI	6-0-9 Keypad Backlight	MI	7-0-6 TimeZone Array
I	5-6-6			I	7-0-8 Service Mode
I	5-6-7		6-1 Keypads & Readers		
I	5-6-8	MI	6-1-0 Name		7-1 Clock
I	5-6-9	I	6-1-2 Area Options	MI	7-1-0 Set Date And Time
		I	6-1-3 Home Area	I	7-1-1 Summertime On
		I	6-1-4 General Options	I	7-1-2 Summertime Off
		I	6-1-5 Indicator Options	I	7-1-3 Locale
		I	6-1-6 Emergency Keys		
		I	6-1-7 Door Assignment		7-3 Power
		I	6-1-8 Lockout Time	I	7-3-0 AC Options
				I	7-3-1 Battery Options
				I	7-3-2 Fuse Options
			6-2 RF Devices		
		I	6-2-0 Receiver Options		7-4 Siren
		I	6-2-1 Supervision Time	I	7-4-0 Tone
		I	6-2-2 RF Device Options	I	7-4-1 Speed
		I	6-2-3 Add RF Keypad	MI	7-4-2 Volume
		I	6-2-4 Delete RF Keypad	I	7-4-3 Siren Swinger
		I	6-2-5 View RF Device ID		
					7-5 TimeZones
		I	6-3 Serial Device	MI	7-5-0 Name
		I	6-3-0 Device Type	MI	7-5-1 Time
		I	6-3-1 Baud Rate	MI	7-5-2 Day
		I	6-3-2 Flow Control	MI	7-5-3 TimeZone Options
			6-5 GSM/GPRS		7-6 Holidays
		MI	6-5-0 GSM/GPRS Status	MI	7-6-0 Holiday Name
		I	6-5-1 GSM/GPRS Options	MI	7-6-1 Start Stop Dates
		MI	6-5-5 CLI Triggers		
		MI	6-5-6 SMS Control		7-7 System Options
				I	7-7-0 General Options
			6-6 Ethernet Module	I	7-7-1 Area Options
		I	6-6-0 Module IP Address	I	7-7-2 Keypad Idle Screen
		I	6-6-1 Subnet Mask	MI	7-7-3 Keypad Hi/Lo Temp
		I	6-6-2 Default Gateway	I	7-7-4 Installer Options
		I	6-6-3 Module MAC Address	I	7-7-5 Language
		I	6-6-9 Ethernet Options	MI	7-7-7 Site Name
					7-9 System Testing
				UMI	7-9-0 Walk Test All Zones
				UMI	7-9-1 Battery Test

Table 17: Menu Structure And Layout

Program Locations

The following section lists all of the programming locations available in the Solution 144. The default values for each parameter are shown in grey.

In order to keep the size of this guide down to a minimum we have shown only one example for some parameters and then listed the default values for the other similar parameters. For example the user default table below shows the default values for users 1 to 255. Similar tables are used to show zone defaults etc.

Access Programming

Access > Commands >

Erase User MENU 1-0-0

Access > PIN Codes >

Change Own PIN MENU 1-1-0

Change Other PIN MENU 1-1-1

Add PIN MENU 1-1-2

Delete PIN MENU 1-1-3

View PIN MENU 1-1-4

Access > Token >

Add Token MENU 1-2-0

Delete Token MENU 1-2-1

Token Status MENU 1-2-2

Edit Token MENU 1-2-3

User Default Table

Parameter	User 1	User 2 - 255
User PIN	2580	
Name	User 1 Name	User 2 - 255
Area Assignment	1	1
User Options		
Master User	Y	
Arm Only		
Can Bypass	Y	Y
Auto Bypass	Y	Y
Always Report Op/Cl	Y	Y
TimeZone	01	01
Door Assignment		

Table 18: User Default Programming Options

Access > RF Keyfob >

Add Keyfob MENU 1-3-0

Delete Keyfob MENU 1-3-1

Test Keyfob MENU 1-3-2

Access > User Properties >

User Name MENU 1-4-0

U	s	e	r	1	N	a	m	e					
---	---	---	---	---	---	---	---	---	--	--	--	--	--

Use the [←] and [→] keys to scroll cursor left and right. Use the [0] – [9] keys or the [↑] and [↓] keys to scroll characters, then press [OK] to save. Press [OFF] to clear text from the current cursor position.

Access > User Properties >

Area Assignment MENU 1-4-1

1	Security System	Y
2	Area 2 Name	N
3	Area 3 Name	N
4	Area 4 Name	N
5	Area 5 Name	N
6	Area 6 Name	N
7	Area 7 Name	N
8	Area 8 Name	N

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.

Access > User Properties >

User Options MENU 1-4-2

1	Master User	Y
2	Reserved	N
3	Arm Only	N
4	Can Bypass	Y
5	Auto Bypass Allowed	Y
6	Always Report Op/Cl	Y
7	Reserved	N
8	Reserved	N

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.

Access > User Properties >

TimeZone Access**MENU 1-4-4**

0 1

- 00 - Disabled
- 01 - 24 Hour TimeZone
- 02 - TimeZone 2 Name
- 03 - TimeZone 3 Name
- 04 - TimeZone 4 Name
- 05 - TimeZone 5 Name
- 06 - TimeZone 6 Name
- 07 - TimeZone 7 Name
- 08 - TimeZone 8 Name
- 09 - TimeZone 9 Name
- 10 - TimeZone 10 Name
- 11 - TimeZone 11 Name
- 12 - TimeZone 12 Name
- 13 - TimeZone 13 Name
- 14 - TimeZone 14 Name
- 15 - TimeZone 15 Name
- 16 - TimeZone 16 Name

Enter 0 - 16 + [OK] to assign the user to a TimeZone – Can only be assigned to one TimeZone.



All users are assigned to TimeZone 1 by default. This means they have 24 hour access to the system. To restrict access. To restrict access to users, refer to TimeZones.

Access > User Properties >

Door Assignment**MENU 1-4-5**

1	Door 1 Name	N
2	Door 2 Name	N
3	Door 3 Name	N
4	Door 4 Name	N
5	Door 5 Name	N
6	Door 6 Name	N
7	Door 7 Name	N
8	Door 8 Name	N
9	Door 9 Name	N
10	Door 10 Name	N
11	Door 11 Name	N
12	Door 12 Name	N
13	Door 13 Name	N
14	Door 14 Name	N
15	Door 15 Name	N
16	Door 16 Name	N

Multiple doors can be assigned to each user. Press 1 – 16, then press [ON] or [OFF] to toggle door on/off, then press [OK] to save.

Access > User Properties >

User Expire Date**MENU 1-4-6**

Access > Global Properties >

PIN Length**MENU 1-5-0**

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

0 4

- 00 - Variable
- 01 - 1 Digit
- 02 - 2 Digits
- 03 - 3 Digits
- 04 - 4 Digits
- 05 - 5 Digits
- 06 - 6 Digits
- 07 - 7 Digits
- 08 - 8 Digits

Enter 00 - 08 + [OK] to program the PIN length.

Access > Global Properties >

PIN Retry Count**MENU 1-5-1**

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

0 6

Use [↑] and [↓] keys or enter 00 – 15 + [OK] to program the PIN retry count (00 = Unlimited).

Access > Global Properties >

Installer PIN**MENU 1-5-2**

1 2 3 4 A A A A

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

Use [0] – [9] keys to program the installer PIN + [OK] to save. Installer PIN can be up to 8 digits long.

Access > Reporting >

Access Route**MENU 1-6-0**

- 00 - Log Events Only
- 01 - Dest 1 + Log
- 02 - Dest 2 + Log
- 03 - Dest 1 & 2 + Log
- 04 - Dest 2 If 1 Fails

0 1

Use [↑] and [↓] keys or enter 0 - 4 + [OK]. Enter single option only. (***) System Wide Parameter (***)

Access > Reporting >

Access Options**MENU 1-6-1**

1	Access Granted	Y
2	Access Denied	Y
3	Egress Granted	Y
4	Egress Denied	Y
5	Reserved	N
6	Reserved	N
7	Reserved	N
8	Reserved	N

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.

Access > Fingerprint >

Add Fingerprint MENU 1-8-0

Access > Fingerprint >

Delete Fingerprint MENU 1-8-1

Access > Fingerprint >

Fingerprint Status MENU 1-8-2**Area Programming**

By default the control panel 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

S e c u r i t y S y s t e m

Use the [←] and [→] keys to scroll cursor left and right. Use the [0] – [9] keys or the [↑] and [↓] keys to scroll characters, then press [OK] to save. Press [OFF] to clear text from the current cursor position.

Areas > Properties >

General Options MENU 2-1-1

1	Exit Time Restart	N
2	Reset Alarm Memory	N
3	Duress Allowed	Y
4	Fault ACK Required	N
5	One Key Arming	Y
6	One Key Part On	Y
7	Link To Common Area	N
8	One Key Part Off	N

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.

Areas > Properties >

Input Options MENU 2-1-2

1	Non Sequential	Y
2	Pulse Count H/Over	Y
3	Senior Watch	N
4	Reset Smoke On Arming	Y
5	Reserved	N
6	Reserved	N
7	Reserved	N
8	Reserved	N

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.

Areas > Properties >

Output Options MENU 2-1-3

1	SPK Beeps Keyfob	Y
2	SPK Beeps Key/Sw	Y
3	SPK Strobe In Part On	Y
4	Alarm On PIN Retry	Y
5	Alarm Exit Error	N
6	Alarm Key/Sw Tamper	Y
7	Reserved	N
8	Reserved	N

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. 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 Report	Y
6	Reserved	N
7	Op/CI In Part On	N
8	Op/CI After Alarm	N

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.

Areas > Properties >

Strobe Trigger MENU 2-1-5

1	Audible Burglary	Y
2	Silent Burglary	N
3	Fire Alarm	Y
4	Keyfob On/Off	N
5	Keyswitch On/Off	N
6	Reserved	N
7	24Hr Alarm	Y
8	Reserved	N

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.

Areas > Area Properties >

Part Mode 1 Name MENU 2-1-6

P a r t 1 A r e a 1 N a m e

Use the [←] and [→] keys to scroll cursor left and right. Use the [0] – [9] keys or the [↑] and [↓] keys to scroll characters, then press [OK] to save. Press [OFF] to clear text from the current cursor position.

Areas > Area Properties >

Part Mode 2 Name MENU 2-1-7

P a r t 2 A r e a 1 N a m e

Use the [←] and [→] keys to scroll cursor left and right. Use the [0] – [9] keys or the [↑] and [↓] keys to scroll characters, then press [OK] to save. Press [OFF] to clear text from the current cursor position.

Areas > Area Properties >

Auto Arming MENU 2-1-8

0 0

- 00 - Disabled
- 01 - 24 Hour TimeZone
- 02 - TimeZone 2 Name
- 03 - TimeZone 3 Name
- 04 - TimeZone 4 Name
- 05 - TimeZone 5 Name
- 06 - TimeZone 6 Name
- 07 - TimeZone 7 Name
- 08 - TimeZone 8 Name
- 09 - TimeZone 9 Name
- 10 - TimeZone 10 Name
- 11 - TimeZone 11 Name
- 12 - TimeZone 12 Name
- 13 - TimeZone 13 Name
- 14 - TimeZone 14 Name
- 15 - TimeZone 15 Name
- 16 - TimeZone 16 Name

Enter 0 - 16 + [OK] to assign the area to a TimeZone – Can only be assigned to one TimeZone (0 = Disabled). To set the start/stop and days of the week that the area will automatically arm, refer to TimeZone menu's.

Areas > Reporting >

Account Dest 1 MENU 2-2-0

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

Program the area account number for Destination 1 here (Enter digits 0 – 9 + [OK] to save).

Areas > Reporting >

Open Close Route MENU 2-2-2

00 - Log Events Only 0 1

- 01 - Dest 1 + Log
- 02 - Dest 2 + Log
- 03 - Dest 1 & 2 + Log
- 04 - Dest 2 If 1 Fails

Use [↑] and [↓] keys or enter 0 - 4 + [OK] to program which destination 'Open' and 'Close' reports are sent to.

Areas > Timers >

Exit Time MENU 2-8-0

0 6 0

Seconds

Enter 000 – 255 + [OK] to program the exit time in seconds.

Areas > Timers >

Entry Time 1 MENU 2-8-1

0 2 0

Seconds

Enter 000 - 255 + [OK] to program the entry time in seconds.

Areas > Timers >

Entry Time 2 MENU 2-8-2

0 4 0

Seconds

Enter 000 - 255 + [OK] to program the entry time in seconds.

Areas > Timers >

Part Entry Time MENU 2-8-3

0 6 0

Seconds

Enter 000 - 255 + [OK] to program the part entry time in seconds.

Areas > Timers >

Auto Arm Pre Alert MENU 2-8-4

(*** System Wide Parameter ***)

0 0 0

Minutes

Enter 000 – 255 + [OK] to program the pre-alert time in minutes (0 = No Pre-Alert).

Areas > Timers >

Senior Watch Time MENU 2-8-6

(*** System Wide Parameter ***)

0 0 0

Hours

Enter 000 – 255 + [OK] to program the senior watch interval in hours.

Areas > Area Testing >

Area Watch MENU 2-9-0

(*** System Wide Parameter ***)

0 1 2

Weeks

Enter 000 – 255 + [OK] to program the number of weeks before registering an inactivity event.

Areas > Area Testing >

User Test Interval MENU 2-9-1

(*** System Wide Parameter ***)

0 0 0

Days

Enter 000 – 255 + [OK] to program the number of days before a user test is requested.

Areas > Area Testing >

Service Interval MENU 2-9-2

(*** System Wide Parameter ***)

0 0 0

Weeks

Enter 000 – 255 + [OK] to program the number of weeks required between installer services.

Areas > Area Testing >

Test Options MENU 2-9-3

1	User Test Required	Y
2	Reserved	N
3	Reserved	N
4	Reserved	N
5	Reserved	N
6	Walk Test Report	Y
7	Walk Test 24Hr	N
8	Walk Test Fire	N

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. 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 the [←] and [→] keys to scroll cursor left and right. Use the [0] – [9] keys or the [↑] and [↓] keys to scroll characters, then press [OK] to save. Press [OFF] to clear text from the current cursor position.

Inputs > Zone Properties >

Zone Type MENU 3-1-1

0 1

- 00 - Not Used
- 01 - Burglary Delay 1
- 02 - Burglary Delay 2
- 03 - Burglary Instant
- 04 - Burg Inst No Exit
- 05 - Burg Handover
- 06 - Burglary 24Hr
- 07 - Tamper 24Hr
- 08 - Hold Up 24Hr
- 09 - Medical 24Hr
- 10 - Panic 24Hr
- 11 - Fire 24Hr
- 12 - Not Used
- 13 - Keyswitch Zone
- 14 - Display Only
- 15 - Non Burglary 24Hr

Use [↑] and [↓] keys or enter 0 – 15 + [OK] to program the zone type.

Inputs > Zone Properties >

Area Assignment MENU 3-1-2

0 1

- 00 - No Area
- 01 - Security System
- 02 - Area 2 Name
- 03 - Area 3 Name
- 04 - Area 4 Name
- 05 - Area 5 Name
- 06 - Area 6 Name
- 07 - Area 7 Name
- 08 - Area 8 Name

Use [↑] and [↓] keys or enter 0 - 8 then press [OK] to program.

Zone Assignments

Zone Assignment Table										
Module Number	Address Setting					Zone Numbers (Single EOL)	Zone Numbers (Alarm+Tamper EOL)	Zone Numbers (Split EOL)	Single or Alarm + Tamper EOL With CM705B + CM707B Module	
	SW1	SW2	SW3	SW4	SW5					
Control Panel						1 to 8	1 to 8	1 to 16	1 to 8	
1 =	OFF	OFF	OFF	OFF	OFF	17 to 24	17 to 24	17 to 32	17 to 24 25 to 32 on the CM707B	
2 =	ON	OFF	OFF	OFF	OFF	33 to 40	33 to 40	33 to 48	33 to 40 41 to 48 on the CM707B	
3 =	OFF	ON	OFF	OFF	OFF	49 to 56	49 to 56	49 to 64	49 to 56 57 to 64 on the CM707B	
4 =	ON	ON	OFF	OFF	OFF	65 to 72	65 to 72	65 to 80	65 to 72 73 to 80 on the CM707B	
5 =	OFF	OFF	ON	OFF	OFF	81 to 88	81 to 88	81 to 96	81 to 88 89 to 96 on the CM707B	
6 =	ON	OFF	ON	OFF	OFF	97 to 104	97 to 104	97 to 112	97 to 104 105 to 112 on the CM707B	
7 =	OFF	ON	ON	OFF	OFF	113 to 120	113 to 120	113 to 128	113 to 120 121 to 128 on the CM707B	
8 =	ON	ON	ON	OFF	OFF	129 to 136	129 to 136	129 to 144	129 to 136 137 to 144 on the CM707B	

Table 19: Zone Assignments

Inputs > Zone Properties >

Pulse Count MENU 3-1-3

Pulses

- | | |
|-----------------------|-------------------------|
| 00 - No Pulse Count | 08 - 8 Inertia Pulses |
| 01 - 1 Pulse | 09 - 9 Inertia Pulses |
| 02 - 2 Pulses | 10 - 10 Inertia Pulses |
| 03 - 3 Pulses | 11 - 11 Inertia Pulses |
| 04 - 4 Pulses | 12 - 12 Inertia Pulses |
| 05 - 5 Pulses | 13 - Door Open Too Long |
| 06 - 6 Inertia Pulses | 14 - PreDelay |
| 07 - 7 Inertia Pulses | 15 - Reserved |

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

Seconds

Enter value between 000 – 255 then select multiplier of seconds, minutes or hours. Press [OK] to save. Use the [←] and [→] keys to toggle between value and multiplier settings.

Inputs > Zone Properties >

Door Assignment MENU 3-1-5

- | | |
|------------------|-------------------|
| 00 - Disabled | 09 - Door 9 Name |
| 01 - Door 1 Name | 10 - Door 10 Name |
| 02 - Door 2 Name | 11 - Door 11 Name |
| 03 - Door 3 Name | 12 - Door 12 Name |
| 04 - Door 4 Name | 13 - Door 13 Name |
| 05 - Door 5 Name | 14 - Door 14 Name |
| 06 - Door 6 Name | 15 - Door 15 Name |
| 07 - Door 7 Name | 16 - Door 16 Name |
| 08 - Door 8 Name | |

A single door can be assigned to each zone. Use the [↑] and [↓] keys to highlight door name, then press [OK] to save.

Inputs > Zone Properties >

Report Route MENU 3-1-6

- 00 - Log Events Only
- 01 - Dest 1 + Log
- 02 - Dest 2 + Log
- 03 - Dest 1 & 2 + Log
- 04 - Dest 2 If 1 Fails

Use [↑] and [↓] keys or enter 0 - 4 + [OK] to set the destination zone reports are sent to.

Zone Default Table

The table below list the default values for all zone parameters in the Solution 144. By default, zones 5 to 16 are set as Instant zones and zones 17 to 144 are set as Not Used. Zones marked as Not Used do not require EOL resistors to be fitted.

Programming	Zone 1	Zone 2	Zone 3	Zone 4	Zones 5 - 16	Zones 17 - 144
Zone Name	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5 to 16	Zone 17 to 144
Zone Type	1 = Delay 1	5 = Handover	5 = Handover	5 = Handover	3 = Instant	0 = Not Used
Area Assignment	1	1	1	1	1	1
Pulse Count	0	0	0	0	0	0
Pulse Count Time	120	120	120	120	120	120
Door Assignment	0	0	0	0	0	0
Report Route	2	2	2	2	2	2
Reporting Options						
Lockout Dialler	Y	Y	Y	Y	Y	Y
Report Alarm	Y	Y	Y	Y	Y	Y
Report Troubles	Y	Y	Y	Y	Y	Y
Report Bypass	Y	Y	Y	Y	Y	Y
Report Restores	Y	Y	Y	Y	Y	Y
Delay Reporting	N	N	N	N	N	N
Zone Options						
Lockout Siren	Y	Y	Y	Y	Y	Y
Silent Alarm	N	N	N	N	N	N
Inverted Seal	N	N	N	N	N	N
Bypass Allowed	Y	Y	Y	Y	Y	Y
Sensor Watch	N	N	N	N	N	N
Armed In Part On	Y	Y	Y	Y	Y	Y
No EOL Required	N	N	N	N	N	N
Test On Exit	N	Y	Y	Y	Y	Y

Table 20: Zone Defaults

Inputs > Zone Properties >

Report Options

MENU 3-1-7

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

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. 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 In Part On	Y
7	No EOL Required	N
8	Test On Exit	Y

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.

Inputs > RF Zone >

Add RF Device

MENU 3-3-0

Delete RF Device

MENU 3-3-1

Test RF Device

MENU 3-3-2

Inputs > Global Input Options >

EOL Value**MENU 3-4-0**

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

0 5

00 - No EOL	08 - 6k8 Ohm
01 - 1k0 Ohm	09 - 8k1 Ohm
02 - 1k5 Ohm	10 - 10k Ohm
03 - 2k2 Ohm	11 - 6K8 Alarm + 2k2 Tamp
04 - 2k7 Ohm	12 - 10k Alarm + 10k Tamp
05 - 3k3 Ohm	13 - 22k Ohm
06 - 4k7 Ohm	14 - 3k3 Alarm + 6k8 Tamp
07 - 5k6 Ohm	15 - Split EOL 3k3 //6k8

Use [↑] and [↓] keys or enter 0 - 15, then press [OK] to program globally the EOL resistor for all zones.

Inputs > Global Input Options >

Keyswitch Options**MENU 3-4-1**

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

0 0

00 - Latching All On/Off	05 - Pulse All On/Off
01 - Latching All On	06 - Pulse All On
02 - Latch Part On/Off	07 - Pulse Part On/Off
03 - Latching Part On	08 - Pulse Part On
04 - Latching Off	09 - Pulse Part Off

Use [↑] and [↓] keys or enter 0 - 9, then press [OK] to program how the keyswitch will operate.

Inputs > Global Input Options >

Input Options**MENU 3-4-2**

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

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

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.

Inputs > PGM Input >

Keyswitch Options**MENU 3-5-0**

0 0

00 - Disabled	03 - Simple RF On/Off
01 - Latching On/Off	04 - Bosch Serial Rcvr
02 - Pulse On/Off	05 - Crow Serial Rcvr (TBA)

Enter 0 - 8 + [OK] to select the interface method used for the given RF receiver.

Inputs > Tamper Inputs >

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

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

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.

Inputs > Input Testing >

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

Inputs > Input Testing >

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

Inputs > Input Testing >

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

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

0 3 0

Days

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
Output Array	MENU 4-0-2
Door Status	MENU 4-0-3
Door Array	MENU 4-0-4
Door Override	MENU 4-0-5

Outputs > Properties >

Output Name	MENU 4-1-0
O u t p u t 1 N a m e	

Use the [←] and [→] keys to scroll cursor left and right. Use the [0] – [9] keys or the [↑] and [↓] keys to scroll characters, then press [OK] to save. Press [OFF] to clear text from the current cursor position.

Outputs > Properties >

Event Type	MENU 4-1-1
0 0 0	

Use [↑] and [↓] keys or enter desired event type 0 – 255 + [OK]. See output event type table for available options.

Output Default Table

The table below list the default values for all Output parameters in the control panel. Outputs 1 to 4 are High current digital outputs and Output 5 is the onboard relay output. Outputs 9 to 40 are only available if the optional modules are fitted. Options marked N/A = Not Applicable.

Programming Option	Output 1	Output 2	Output 3	Output 4	Output 5	Output 9 - 40
Output Name	External Siren	Strobe Light	Smoke Sensor PWR	Internal Siren	On Board Relay	Output x Name
Event Type	36 (External Siren)	48 (Strobe)	49 (Smoke Sensor GND)	37 (Internal Siren)	54 (Keyfob Function 2)	00 (Not Used)
Event Assignment	0	0	0	0	0	0
Output Polarity	14 Speaker Output	6 1 Shot Low + Reset	11 Low 1 Shot Open	6 1 Shot Low + Reset	4 Open 1 Shot Low	0 Open To Low
Time Parameter						
N° Of Hours	000	008	000	000	000	000
N° Of Minutes	005	000	000	005	000	000
N° Of Seconds	000	000	010	000	002	000
N° Of 1/10 Seconds	000	000	000	000	000	000
Output Options						
Off On Low Battery	Y	Y	N	Y	N	N
Guest Control	N	N	N	N	N	N
Reserved	N	N	N	N	N	N
Monitor Overload	Y	Y	Y	Y	N	N
Monitor Device Fail	Y	Y	N	Y	N	N
Alarm On Device Fail	N	N	N	N	N	N
Block If All On	N	N	N	N	N	N
Show Status On Keypad	N	N	N	N	N	N

Table 21: Output Default Table

Output Event Types

00 - Disabled	P	26 - Entry Timing	A	52 - Exit Error	A
01 - Battery Trouble	P	27 - Exit Timing	A	53 - Keyfob Function 1	A
02 - AC Trouble	P	28 - End Of Exit Time	A	54 - Keyfob Function 2	A
03 - Telco Line Fail	P	29 - Chime On	A	55 - Output In PreDelay	Op
04 - Comm Fail	Rr	30 - Chime Zone Trigger	A	56 - Follow PIN Code	Ur
05 - 3rd Dial Attempt	Rr	31 - Auto Arm Pre Alert	A	57 - Part Entry Time	A
06 - Dest Reporting	Rr	32 - Ready To Arm All On	A	58 - TimeZones	Tz
07 - Disabled		33 - Ready To Part Arm	A	59 - Temperature Hi/Lo	Kp
08 - Dest Kiss Off	Rr	34 - Ready To Part 2 Arm	A	60 - Door	Dr
09 - User Keyfob Func 1	Ur	35 - Close Sent OK	A	61 - Door Open Too Long	Dr
10 - User Keyfob Func 2	Ur	36 - External Audible	A	71 - CLI Trigger	CLI
11 - Dialler Disabled	P	37 - Internal Audible	A	72 - GSM Signal Lost	P
12 - Output Device Missing	P	38 - Any Zone Alarm	A	73 - GPRS Failure	P
13 - Output Trouble	Op	39 - Fire Alarm	A	74 - Ethernet Fail	P
14 - Panel On Line	P	40 - Burglary Alarm	A	75 - Macro	Ma
15 - Incoming Call	P	41 - Silent Alarm	A		
16 - System Trouble	P	42 - Duress Alarm	A		
17 - Box Tamper	Zn	43 - Keypad Medical	A		
18 - Zone Trouble	Zn	44 - Keypad Fire	A		
19 - Zone Mirror	Zn	45 - Keypad Panic	A		
20 - Zone Alarm	A	46 - Device Tamper	A		
21 - Area Disarmed	A	47 - Access Denied	A		
22 - Area Part Or All On	A	48 - Strobe	A		
23 - Area All On	A	49 - Smoke Sensor GND	A		
24 - Area Part On	A	50 - Sensor Watch	A		
25 - Area Part 2 On	A	51 - Senior Watch	A		

Legend:

(Ma) = Macro	(CLI) = CLI Trigger Table	(A) = Area Event Assignment
(P) = Panel Event Assignment	(Op) = Output Event Assignment	(Zn) = Zone Event Assignment
(Ur) = User Event Assignment	(Tz) = TimeZone Event Assignment	(Dr) = Door Group Event Assignment
(Kp) = Keypad	(Rr) = Reporting Destination	

Table 22: Output Event Types

Output Assignments

Output Assignments						
Module Number	Address Setting					Output Number
	SW1	SW2	SW3	SW4	SW5	
Control Panel						1 to 5
Virtual Outputs						6 to 8
1 =	OFF	OFF	OFF	OFF	OFF	9 to 12
2 =	ON	OFF	OFF	OFF	OFF	13 to 16
3 =	OFF	ON	OFF	OFF	OFF	17 to 20
4 =	ON	ON	OFF	OFF	OFF	21 to 24
5 =	OFF	OFF	ON	OFF	OFF	25 to 28
6 =	ON	OFF	ON	OFF	OFF	29 to 32
7 =	OFF	ON	ON	OFF	OFF	33 to 36
8 =	ON	ON	ON	OFF	OFF	37 to 40

Table 23: Address Configuration and Output Assignments

Outputs > Properties >	
Event Assignment	MENU 4-1-2
	0 0 0

- (A) = **Area Assignment**
Assign to Area 1 to 8 (0 = Any Area)
- (P) = **Control Panel**
- (Op) = **Output Assignment**
Assign to Output 1 to 40 (0 = Any Output)
- (Zn) = **Zone Assignment**
Assign to Zone 1 to 144 (0 = Any Zone)
- (Ur) = **User Assignment**
Assign to User 1 to 255 (0 = Any User)
- (Tz) = **TimeZone Assignment**
Assign to TimeZone 1 to 16 (0 = Any TimeZone)
- (Dr) = **Door Assignment**
(Assign to Door Assignment 1 to 16 (0 = Any Door))
- (Kp) = **Keypad Assignment**
Assign to Keypad/LAN Reader 1 to 16 (0 = Any Keypad/LAN Reader)
- (Rr) = **Reporting Destination**
Assign to Destination 1 or 2 (0 = Destination 1 and/or Destination 2)
- (Ma) = **Macro Group Assignment**
Assign to Macro Group (0 = Any Macro Group)
- (CLI) = **CLI Trigger Table**
Assign to CLI Trigger Table 1 or 2 (0 = Both Tables)

Use [↑] and [↓] keys to program which Area, User, Zone, Keypad or Access Group Number etc you want the output to follow then press [OK].

Outputs > Properties >	
Output Polarity	MENU 4-1-3
	0 0

- 00 - Open To Low
- 01 - Open To Low + Pre
- 02 - Open Latching Low
- 03 - Open Pulsing Low
- 04 - Open 1 Shot Low
- 05 - 1 Shot Low+Retrigger
- 06 - 1 Shot Low + Reset
- 07 - Low To Open
- 08 - Low To Open + Pre
- 09 - Low Latching Open
- 10 - Low Pulsing Open
- 11 - Low 1 Shot Open
- 12 - 1 Shot Open+Retrigger
- 13 - 1 Shot Open + Reset
- 14 - Speaker Output
- 15 - Toggle

Enter 0 – 15 + [OK] to program the output polarity type. Each output can only have one polarity type programmed.

Outputs > Properties >	
Time Parameter	MENU 4-1-4
0 0 0	0 0 0
Hour	Minute
0 0 0	0 0 0
Seconds	10 th 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

Table 24: One-Shot Polarity Example

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	Off On Low Battery	Y
2	Guest Control	N
3	Reserved	N
4	Monitor Overload	Y
5	Monitor Device Fail	Y
6	Alarm On Device Fail	N
7	Block If All On	N
8	Show Status On Keypad	N

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.

Outputs > Door Properties >

Door Name	MENU 4-2-0
D o o r 1 N a m e	

Use the [←] and [→] keys to scroll cursor left and right. Use the [0] – [9] keys or the [↑] and [↓] keys to scroll characters, then press [OK] to save. Press [OFF] to clear text from the current cursor position.

Outputs > Door Properties >

Unlock TimeZone	MENU 4-2-2
0 0	

- 00 - Disabled
- 01 - 24 Hour TimeZone
- 02 - TimeZone 2 Name
- 03 - TimeZone 3 Name
- 04 - TimeZone 4 Name
- 05 - TimeZone 5 Name
- 06 - TimeZone 6 Name
- 07 - TimeZone 7 Name
- 08 - TimeZone 8 Name
- 09 - TimeZone 9 Name
- 10 - TimeZone 10 Name
- 11 - TimeZone 11 Name
- 12 - TimeZone 12 Name
- 13 - TimeZone 13 Name
- 14 - TimeZone 14 Name
- 15 - TimeZone 15 Name
- 16 - TimeZone 16 Name

A single TimeZone can be assigned to each door. Use the [↑] and [↓] keys to highlight door name, then press [OK] to select. Enter 0 - 16 + [OK] to assign the door to a TimeZone – can only be Assigned to one TimeZone (0 = Disabled).

Outputs > Door Properties >

Door Options		MENU 4-2-3
1	Hold Off If Area Armed	Y
2	Hold Off Auto Unlock	N
3	Reserved	N
4	Report Door Forced	N
5	Alarm Door Forced	N
6	Reserved	N
7	Reserved	N
8	Reserved	N

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.

Outputs > Output Testing >

External Siren Test	MENU 4-9-0
Internal Siren Test	MENU 4-9-1
Strobe Test	MENU 4-9-2
Fire Siren Test	MENU 4-9-3

Comms Programming

Comms > Commands >	
Reserved	MENU 5-0-0
Call/Answer RAS	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	MENU 5-0-5

Comms > Commands >	
Voice Setup	MENU 5-0-6

This menu allows an installer or master user to record their personal messages that will be reported when using an optional Voice Module (CM101B). The optional voice module is required.

Comms > Commands >	
Register Customer	MENU 5-0-8

Reserved for future use.

Comms > Commands >	
Register Installer	MENU 5-0-9

Reserved for future use.

Comms > Telephone Numbers >	
Number Prefix	MENU 5-1-0

1	Digits	32
<input type="text"/>	<input type="text"/>	<input type="text"/>

Use [←] and [→] keys to scroll cursor. Enter [0] – [9] for telephone digits. Use [↑] and [↓] to toggle special characters * # and , (Pause).

Comms > Telephone Numbers >	
Destination 1	MENU 5-1-1

1	Digits	32
Phone 1	<input type="text"/>	<input type="text"/>
1	Digits	32
Phone 2	<input type="text"/>	<input type="text"/>
1	Digits	32
Phone 3	<input type="text"/>	<input type="text"/>
1	Digits	32
Phone 4	<input type="text"/>	<input type="text"/>
1	Digits	32
Phone 5	<input type="text"/>	<input type="text"/>

Use [←] and [→] keys to scroll cursor. Enter [0] – [9] for telephone digits. Use [↑] and [↓] to toggle special characters * # and , (Pause).

Comms > Telephone Numbers >	
Destination 2	MENU 5-1-2

1	Digits	32
Phone 1	<input type="text"/>	<input type="text"/>
1	Digits	32
Phone 2	<input type="text"/>	<input type="text"/>
1	Digits	32
Phone 3	<input type="text"/>	<input type="text"/>
1	Digits	32
Phone 4	<input type="text"/>	<input type="text"/>
1	Digits	32
Phone 5	<input type="text"/>	<input type="text"/>

Use [←] and [→] keys to scroll cursor. Enter [0] – [9] for telephone digits. Use [↑] and [↓] to toggle special characters * # and , (Pause).

Comms > Telephone Numbers >	
Call Forward On	MENU 5-1-6

1	Digits	32
	<input type="text" value="* 6 1 , * 2 0 #"/>	<input type="text"/>

Use [←] and [→] keys to scroll cursor. Enter [0] – [9] for telephone digits. Use [↑] and [↓] to toggle special characters * # and , (Pause).

Comms > Telephone Numbers >	
Call Forward Off	MENU 5-1-7

1	Digits	32
	<input type="text" value="# 6 1 #"/>	<input type="text"/>

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 - 10 then press [OK] to program the maximum call retry attempts per destination

Comms > Properties >

Dialler 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 Report To Web	Y
6	Extend H/S To 1min	N
7	Reserved	N
8	Abort Failed Reports	Y

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.

Comms > Properties >

Phone Line Options MENU 5-2-2

1	Display Line Fail	Y
2	Report Line Fail	Y
3	Alarm L/Fail If On	Y
4	Alarm L/Fail If Off	N
5	Reserved	N
6	Reserved	N
7	Reserved	N
8	Display On Line	N

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.

Comms > Properties >

Country MENU 5-2-3

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

0 1

Ln1 AUSTRALIA	Ln9 CZECH REPUBLIC
Ln2 NEW ZEALAND	Ln10 POLAND
Ln3 ITALY	Ln11 TURKEY
Ln4 GREECE	Ln12 CHINA
Ln5 CYPRUS	Ln13 HONG KONG
Ln6 SPAIN	Ln14 MALAYSIA
Ln7 PORTUGAL	Ln15 BRAZIL
Ln8 HUNGARY	

Use [↑] and [↓] keys or enter 0 - 15 + [OK] to set which country the panel is being used in. Only 1 option can be programmed.

Comms > Properties >

Set SMS Pasword MENU 5-2-7

p a s s w d

Use the [←] and [→] keys to scroll cursor left and right. Use the [0] - [9] keys or the [↑] and [↓] keys to scroll characters, then press [OK] to save. Press [OFF] to clear text from the current cursor position.

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.

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

00 - No Answer 2 0

01 to 30 - Answer Ring Count

Use [↑] and [↓] keys or enter 0 - 30 then press [OK] to program the ring count - single option only.

Comms > Reporting

System Route MENU 5-4-3

- 00 - Log Events Only 0 1
- 01 - Dest 1 + Log
- 02 - Dest 2 + Log
- 03 - Dest 1 & 2 + Log
- 04 - Dest 2 If 1 Fails

Use [↑] and [↓] keys or enter 0 - 4 + [OK]. Enter single option only. (** System Wide Parameter **).

Comms > Reporting

Emergency Route MENU 5-4-4

- 00 - Log Events Only 0 1
- 01 - Dest 1 + Log
- 02 - Dest 2 + Log
- 03 - Dest 1 & 2 + Log
- 04 - Dest 2 If 1 Fails

Use [↑] and [↓] keys or enter 0 - 4 + [OK]. Enter single option only. (** System Wide Parameter **).

Comms > Reporting >

Swinger Dialler MENU 5-4-5

(** System Wide Parameter **) 0 6

Enter 0 - 15 + [OK] to program number of times the dialler can report before lockout. 0 = Unlimited.

Comms > Reporting >

Burg Report Delay MENU 5-4-6

(** System Wide Parameter **) 0 0 0
Seconds

Enter 0 - 255 seconds + [OK] to program the delay time in seconds before reports are sent. 0 = No Delay.

Comms > Reporting >

Fire Report Delay MENU 5-4-7

(** System Wide Parameter **) 0 0 0
Seconds

Enter 0 - 255 seconds + [OK] to program the delay time in seconds before reports are sent. 0 = No Delay.

Comms > MyAlarm >

IP Address MENU 5-5-0

Factory Set

Comms > MyAlarm >

IP Port MENU 5-5-1

Factory Set

Comms > MyAlarm >

MyAlarm Options MENU 5-5-2

1	Reserved	N
2	Reserved	N
3	Reserved	N
4	Reserved	N
5	Reserved	N
6	Reserved	N
7	Reserved	N
8	Reserved	N

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.



Menu's 5-5-0 and 5-5-1 should be left at the factory default settings unless you are advised otherwise by the manufacturer.

Comms > MyAlarm >

Gateway Numbers MENU 5-5-7

SMS Primary

1 Digits 32
1 8 3 2 1 3 4 5 0 6 4 1

SMS Secondary

1 Digits 32
1 8 3 2 1 3 4 5 1 8 2 5

Email

1 Digits 32
1 8 3 2 1 3 4 5 2 5 0 5

MyAlarm

1 Digits 32
1 8 3 2 1 3 4 5 2 5 0 5

Use the [←] and [→] keys to scroll cursor left and right. Use the [0] - [9] keys or the [↑] and [↓] keys to scroll characters, then press [OK] to save. Press [OFF] to clear text from the current cursor position.

Comms > MyAlarm >

Email Address MENU 5-5-8

Email 1 Characters 80
Address

Use the [←] and [→] keys to scroll cursor left and right. Use the [0] - [9] keys or the [↑] and [↓] keys to scroll characters, then press [OK] to save. Press [OFF] to clear text from the current cursor position. To program the '@' symbol, press the [↑] key 32 times.

Comms > MyAlarm >

Email Options MENU 5-5-9

1	Open Close	Y
2	Zones	Y
3	System	Y
4	Access	Y
5	Reserved	N
6	Reserved	N
7	Reserved	N
8	Reserved	N

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.

Comms > IP Reporting >

Receiver IP MENU 5-6-0

1 Digits 12

Dest N° 1 [0][0][0][0] [0][0][0][0] [0][0][0][0] [0][0][0][0]

1 Digits 12

Dest N° 2 [0][0][0][0] [0][0][0][0] [0][0][0][0] [0][0][0][0]

Use [←] and [→] keys to scroll cursor, enter 0 – 9 for IP address digits and press [OK] to save when finished.

Comms > IP Reporting >

Receiver Port MENU 5-6-1

Dest N° 1 [0][7][7][0][0]

Dest N° 2 [0][7][7][0][0]

Enter base station port number - must be 5 digits within the range 0 to 65535. Use [←] and [→] keys to scroll cursor. Press [OK] to save.

Comms > IP Reporting >

Poll Rate MENU 5-6-2

[0][0][3][0]

Seconds x10

Enter 0000 - 9999 + [OK] to program the poll rate time in seconds (x10) for both Destination 1 and/or Destination 2.

Comms > IP Reporting >

ACK Wait Time MENU 5-6-3

[0][1][0]

Seconds

Enter 0 - 255 + [OK] to program the acknowledge wait time in seconds for both Destination 1 and/or Destination 2.

Comms > IP Reporting >

IP Format MENU 5-6-4

00 - Conettix [0][1]

01 - Conettix NNC (Anti Replay)

02 - CSV IP ALARM

03 - Suretek (TBA)

04 - Permacom (TBA)

05 - Direct Wireless (TBA)

06 - MyAlarm CID (TBA)

Enter 0 - 5 + [OK] to program the IP format for both Destination 1 and/or Destination 2.

Comms > IP Reporting >

Retry Count MENU 5-6-5

[0][3]

Enter 0 – 15 + [OK] to program the IP retry count (0 = No Retry) for both Destination 1 and/or Destination 2.

Comms > IP Reporting >

Encryption Key MENU 5-6-6

1 Digits 32

Dest N° 1 [0]

1 Digits 32

Dest N° 2 [0]

The encryption key must match the encryption key on the base station receiver for communication to take place. To remove encryption set MENU-5-6-6 to all zeros.

Comms > IP Reporting >

Conettix NNC MENU 5-6-7

Dest N° 1 [0][0][0][0][0][0][0][0][0][0]

Dest N° 2 [0][0][0][0][0][0][0][0][0][0]

The NNC number is used to prevent anti-replay attacks when reporting in Connetix format. The NNC number will be assigned by the control room at the time the account is setup. Like the account number the NNC will always be unique.

Comms > IP Reporting >
SIA IP Prefix MENU 5-6-8

Account	1	Digits	16
Dest N° 1	0 0 0 0 0 0 0 0 0 0		0
Account	1	Digits	16
Dest N° 2	0 0 0 0 0 0 0 0 0 0		0
Account Prefix	1	Digits	6
Dest N° 1	0 0 0 0 0 0		
Account Prefix	1	Digits	6
Dest N° 2	0 0 0 0 0 0		
Receiver Prefix	1	Digits	6
Dest N° 1	0 0 0 0 0 0		
Receiver Prefix	1	Digits	6
Dest N° 2	0 0 0 0 0 0		

Highlight the parameter that you want to program, then press [OK] to select. Use the [←] and [→] keys to scroll cursor left and right. Use the [0] – [9] keys or the [↑] and [↓] keys to scroll characters, then press [OK] to save. Press [OFF] to clear text from the current cursor position.

Comms > IP Reporting >
User Name/Password MENU 5-6-9

Username	1	Digits	16
Password	1	Digits	16

Use the [←] and [→] keys to scroll cursor left and right. Use the [0] – [9] keys or the [↑] and [↓] keys to scroll characters, then press [OK] to save. Press [OFF] to clear text from the current cursor position.

Comms > IP Remote Access >
IP Address MENU 5-7-0

Installer	1	Digits	12
User	1	Digits	12

Use [←] and [→] keys to scroll cursor, use [0] – [9] keys to enter IP address, then press [OK] to save when finished.

Comms > IP Remote Access >
IP Port MENU 5-7-1

Installer	0 7 7 0 1
User	0 7 7 0 1

Enter IP Port - must be 5 digits within the range 0 to 65535. Use [←] and [→] keys to scroll cursor. Press [OK] to save.

Comms > IP Remote Access >
IP RAS Options MENU 5-7-2

1	IP RAS Allowed	Y
2	IP RAS Only If Disarmed	N
3	Report IP Session	Y
4	Report IP Lockout	Y
5	UDP Installer RAS	Y
6	UDP User RAS	N
7	Reserved	N
8	Reserved	N

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.

Comms > IP Remote Access >
RAS Lockout Time MENU 5-7-3

0 6 0
Seconds

Enter 0 - 255 + [OK] to program the acknowledge wait time in seconds.

Comms > IP Remote Access >
IPRS Address MENU 5-7-5

2 0 2 1 2 9 0 8 3 0 5 8

Reserved for factory use. Do not change unless requested to do so.

Comms > IP Remote Access >
IPRS Port MENU 5-7-6

0 7 7 0 3

Reserved for factory use. Do not change unless requested to do so. Must be 5 digits within the range 0 to 65535.

Comms > Comms Test >
Send Test Report MENU 5-9-0

Comms > Comms Test >
Test Report Time MENU 5-9-1

Test Time
0 2 : 0 0
H H : M M

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



Scroll through hours using the [↑] and [↓] to change from am to pm.

Comms > Comms Test >

Test Report Period MENU 5-9-2

(*** System Wide Parameter ***) 0 1

- | | |
|---------------------|---------------------|
| 00 - No Test Report | 08 - Reserved |
| 01 - Every Day | 09 - Reserved |
| 02 - Every Week | 10 - Reserved |
| 03 - Every Month | 11 - Reserved |
| 04 - Every 2 Days | 12 - Reserved |
| 05 - Every 3 Days | 13 - Reserved |
| 06 - Every 4 Days | 14 - Every Hour |
| 07 - Every 5 Days | 15 - Every 12 Hours |

MENU 5-9-2 programs the interval between automatic test reports. Use [↑] and [↓] keys or enter [0] to [15] + [OK] to program.

Comms > Comms Test >

Test Report Options MENU 5-9-3

1	Test If No Other Rpt	N
2	Test On Siren Reset	Y
3	Reserved	N
4	Reserved	N
5	Reserved	N
6	Reserved	N
7	Reserved	N
8	Reserved	N

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.

Comms > Reporting

Test Route MENU 5-9-4

- 00 - Log Events Only 0 1
- 01 - Dest 1 + Log
- 02 - Dest 2 + Log
- 03 - Dest 1 & 2 + Log
- 04 - Dest 2 If 1 Fails

Use [↑] and [↓] keys or enter 0 - 4 + [OK]. 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 >

- Device Status** MENU 6-0-0
- LAN Secure** MENU 6-0-1
- LAN Scan** MENU 6-0-2
- LAN Watch** MENU 6-0-3
- Keypad Volume** MENU 6-0-7
- Keypad Contrast** MENU 6-0-8
- Keypad Backlight** MENU 6-0-9

Devices > Keypads & Readers >

Name MENU 6-1-0

K e y p a d 1 N a m e

Use the [←] and [→] keys to scroll cursor left and right. Use the [0] - [9] keys or the [↑] and [↓] keys to scroll characters, then press [OK] to save. Press [OFF] to clear text from the current cursor position.

Devices > Keypads & Readers >

Area Options MENU 6-1-2

1	All On Arming Allowed	Y
2	Part On Arming Allowed	Y
3	Disarming Allowed	Y
4	Single Button Control	Y
5	All User Areas	N
6	Zero Exit Time	N
7	PIN To Change Area	N
8	Home Area Only	N

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.

Devices > Keypads & Readers >

Home Area MENU 6-1-3

0 1

- 00 - No Area
- 01 - Security System
- 02 - Area 2 Name
- 03 - Area 3 Name
- 04 - Area 4 Name
- 05 - Area 5 Name
- 06 - Area 6 Name
- 07 - Area 7 Name
- 08 - Area 8 Name

Use [↑] and [↓] keys or enter 0 - 8 then press [OK] to program. This is the area that will be displayed on the keypad by default.



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

Devices > Keypads & Readers >

Door Assignment

MENU 6-1-7

0 0

00 - No Door Assignment

01 - Door 1 Name

09 - Door 9 Name

02 - Door 2 Name

10 - Door 10 Name

03 - Door 3 Name

11 - Door 11 Name

04 - Door 4 Name

12 - Door 12 Name

05 - Door 5 Name

13 - Door 13 Name

06 - Door 6 Name

14 - Door 14 Name

07 - Door 7 Name

15 - Door 15 Name

08 - Door 8 Name

16 - Door 16 Name

A single door can be assigned to each keypad. Use the [↑] and [↓] keys to highlight door name, then press [OK] to save.

Devices > Keypads & Readers >

Lockout Time

MENU 6-1-8

(*** System Wide Parameter ***)

0 6 0

Seconds

Enter 001 – 255 + [OK] to program the keypad lockout time in seconds. 000 = No Lockout.

Devices > RF Devices >

Receiver Options

MENU 6-2-0

1	Display RF Rcvr Trouble	Y
2	Alarm RF Rcvr Tamper	Y
3	Report RF Rcvr Tamper	Y
4	Alarm RF Rcvr Jamming	N
5	Report RF Rcvr Jamming	N
6	Alarm Rcvr Comms Fail	Y
7	Report Rcvr Comm Fail	Y
8	Reserved	N

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.

Device > RF Devices >

Supervision Time

MENU 6-2-1

(*** System Wide Parameter ***)

0 2 4

Hours

Enter the supervision time for RF devices in hours (001 - 255 Hours) 000 = No Supervision.

Devices > Keypads & Readers >

General Options

MENU 6-1-4

1	Enable Rear Tamper	N
2	Report Temperature	Y
3	Installer PIN Allowed	Y
4	Show Alarm When Armed	N
5	Reader Area Control	Y
6	Reader Badging	N
7	Enable Egress Input	N
8	Log Egress Events	N

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.

Devices > Keypads & Readers >

Indicator Options

MENU 6-1-5

1	Extinguish	N
2	Greetings	Y
3	Display Temperature	N
4	Display Area Icons	N
5	Trouble Alert Beeps	Y
6	Entry Exit Warning	Y
7	Part Exit Warning	N
8	Chime Tone	Y

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.

Devices > Keypads & Readers >

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	Y
6	Report Keypad Panic	Y
7	Reserved	N
8	Reserved	N

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.

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 Devices	Y
5	Open Zone On Lost RF	N
6	Audible Keyfob Panic	Y
7	Report Keyfob Panic	Y
8	Keyfob Func Part On	Y

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. 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

- 00 - Disabled 0 0
- 01 - Serial Printer
- 02 - Computer

Use [↑] and [↓] keys or enter 0 – 2 + [OK] to program the type of Serial device connected to the serial port.

Devices > Serial Device >

Baud Rate MENU 6-3-1

- 00 - No Device Conn 0 0
- 01 - 300 Baud 04 - 2400 Baud
- 02 - 600 Baud 05 - 9600 Baud
- 03 - 1200 Baud 06 - 19200 Baud

Use [↑] and [↓] keys or enter 0 – 2 to program the serial device baud rate, then press [OK] to save.

Devices > Serial Device >

Flow Control MENU 6-3-2

- 00 - No Handshaking 0 0
- 01 - Hardware
- 02 - Xon-Xoff

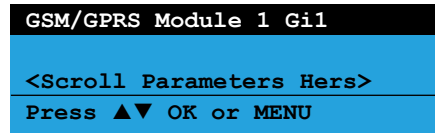
Use [↑] and [↓] keys or enter 0 – 2 to program the serial device flow control, then press [OK] to save.

Devices > GSM/GPRS Module >

GSM/GPRS Status MENU 6-5-0

This command interrogates the GSM module and displays information about the radio and the SIM installed. The first line is a heading which indicates the GSM module type that is installed. Typical information available includes details on the installed radio, the SIM provider and signal strength of the currently active SIM.

It should be noted that the use of SIM 2 is restricted to reporting protocols that utilise the dual sim where SIM 2 is a backup.



The following parameters will be displayed one at time on the display.

- IEMI
- Radio Model
- Radio Firmware
- Radio S/N
- Provider
- Signal Strength
- Dual Sims Detected

Devices > GSM/GPRS Module >

GSM/GPRS Options MENU 6-5-1

1	Forward SMS Spam	N
2	Forward SMS To Mail	N
3	Reserved	N
4	Reserved	N
5	Reserved	N
6	Reserved	N
7	Reserved	N
8	Reserved	N

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.

Devices > GSM/GPRS Module >

CLI Trigger Table 1

MENU 6-5-5-0

	1	Digits								16
Phone 1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Phone 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Phone 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Phone 4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Phone 5	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Phone 6	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Phone 7	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Phone 8	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Phone 9	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Phone 10	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Use [←] and [→] keys to scroll cursor. Enter [0] – [9] for telephone digits. Use [↑] and [↓] to toggle special characters * # and , (Pause).



Up to 10 CLI telephone numbers can be entered for Table 1. Press [OK] after each telephone number is entered to save and move to the next telephone number.

Devices > GSM/GPRS Module >

CLI Trigger Table 2

MENU 6-5-5-1

	1	Digits								16
Phone 1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Phone 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Phone 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Phone 4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Phone 5	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Phone 6	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Phone 7	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Phone 8	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Phone 9	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Phone 10	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Use [←] and [→] keys to scroll cursor. Enter [0] – [9] for telephone digits. Use [↑] and [↓] to toggle special characters * # and , (Pause).



Up to 10 CLI telephone numbers can be entered for Table 2. Press [OK] after each telephone number is entered to save and move to the next telephone number.

Devices > GSM/GPRS Module >

SMS Control MENU 6-5-6

Phone 1	1	Digits	16
Phone 2	1	Digits	16
Phone 3	1	Digits	16
Phone 4	1	Digits	16
Phone 5	1	Digits	16
Phone 6	1	Digits	16
Phone 7	1	Digits	16
Phone 8	1	Digits	16
Phone 9	1	Digits	16
Phone 10	1	Digits	16

Use [←] and [→] keys to scroll cursor. Enter [0] – [9] for telephone digits. Use [↑] and [↓] to toggle special characters * # and , (Pause).



Up to 10 telephone numbers can be entered to provide SMS control. Press [OK] after each telephone number is entered to save and move to the next telephone number.

Devices > Ethernet Module >

Module IP Address MENU 6-6-0

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

This is the IP address of the module on the customers internal local area network.

Devices > Ethernet Module >

Subnet Mask MENU 6-6-1

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

This can be found by running IPCONFIG on a PC connected to the clients network. Typical Subnet mask is 255.255.255.0.

Devices > Ethernet Module >

Default Gateway MENU 6-6-2

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

This gateway IP address can be found by running IPCONFIG on a PC connected to the clients network.

Devices > Ethernet Module >

Module MAC Address MENU 6-6-3

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

This is the hardware machine address of the module and can be found on the bar-coded sticker on the module.

Devices > Ethernet Module >

Ethernet Options MENU 6-6-9

1	Display Faults	Y
2	Report Cable Lost	Y
3	Report IP Conflict	Y
4	Report Poll Fail	Y
5	Reserved	N
6	Reserved	N
7	Reserved	N
8	Reserved	N

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.



See the ethernet module installation guide for more detailed explanation on installation configuring the ethernet module.

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

Reserved for future use.

TimeZone Array MENU 7-0-6**Service Mode** MENU 7-0-8

System > Clock >

Set Date And Time MENU 7-1-0

System > Clock >

Summertime On MENU 7-1-1

At 2:00am -- -- --

Month Week Day

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

Program the month of the year (Jan – Dec), week of the month (Wk1 to Last) and day of the week (Sun To Sat). Use [←] and [→] keys to scroll cursor left and right and use [↑] and [↓] to toggle options.

System > Clock >

Summertime Off MENU 7-1-2

At 2:00am -- -- --

Month Week Day

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

Program the month of the year (Jan – Dec), week of the month (Wk1 to Last) and day of the week (Sun To Sat). Use [←] and [→] keys to scroll cursor left and right and use [↑] and [↓] to toggle options.

System > Clock >

Locale MENU 7-1-3

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

00 - Disabled
 01 - SYDNEY
 02 - MELBOURNE
 03 - BRISBANE
 04 - ADELAIDE
 05 - PERTH
 06 - HOBART

MENU 7-1-3 programs the locale in Australia. Use [↑] and [↓] keys or enter [0] to [15] + [OK] to program.

System > Power >

AC Options MENU 7-3-0

1	Display AC Fail	Y
2	Report AC Fail	Y
3	Sync Clock To AC	Y
4	Random AC Report 2hr	N
5	AC Fail After 1hr	N
6	Reserved	N
7	Reserved	N
8	Display Clock Trouble	Y

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. 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	Battery Test On Arming	Y
4	OK To Arm Low Battery	Y
5	Reserved	N
6	Reserved	N
7	Reserved	N
8	Reserved	N

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.

System > Power >

Fuse Options MENU 7-3-2

1	Display COMM+ O/Load	Y
2	Report COMM+ O/Load	Y
3	Display +12v O/Load	Y
4	Report +12v O/Load	Y
5	Display LAN O/Load	Y
6	Report LAN O/Load	Y
7	Reserved	N
8	Reserved	N

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. 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 the speaker beep volume of the siren for RF keyfob and keyswitch input operation (0 = Disabled / 1 = Low – 15 = High).

System > Siren >

Siren Swinger MENU 7-4-3

(*** System Wide Parameter ***)

0	3
---	---

Enter 0 – 15 + [OK] to program number of times siren can sound before lockout. (0 = Unlimited).

System > TimeZones >

Name MENU 7-5-0

T	i	m	e	Z	o	n	e	2	N	a	m	e						
---	---	---	---	---	---	---	---	---	---	---	---	---	--	--	--	--	--	--

Use the [←] and [→] keys to scroll cursor left and right. Use the [0] – [9] keys or the [↑] and [↓] keys to scroll characters, then press [OK] to save. Press [OFF] to clear text from the current cursor position.

System > TimeZones >

Time MENU 7-5-1

Period 1	Start Time	Stop Time
	-- : -- : -- HH MM SS	-- : -- : -- HH MM SS
Period 2	Start Time	Stop Time
	-- : -- : -- HH MM SS	-- : -- : -- HH MM SS
Period 3	Start Time	Stop Time
	-- : -- : -- HH MM SS	-- : -- : -- HH MM SS
Period 4	Start Time	Stop Time
	-- : -- : -- HH MM SS	-- : -- : -- HH MM SS

Use [←] and [→] keys to scroll cursor left and right. Use keys [0] – [9] to enter time in hours (HH) / minutes (MM) and seconds (SS). Press [OFF] to disable the time and press [OK] to save.

System > TimeZones >

Day MENU 7-5-2

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Hol
Period 1	N	N	N	N	N	N	N	N
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Hol
Period 2	N	N	N	N	N	N	N	N
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Hol
Period 3	N	N	N	N	N	N	N	N
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Hol
Period 4	N	N	N	N	N	N	N	N

Enter 1 – 8 to toggle days ON/OFF, then press [OK] to save.



To create a timezone for auto arming you must enter the arm time in the stop time field. For example if you want the system to arm at 5.30pm you would program 17:30:00 in the stop field.

If auto disarming is also required then you would enter the disarm time in the start time field of the same timezone period. For example if you want the system to disarm at 7.30am you would program 07:30:00 in the stop field. See the full installation manual for more details.

System > TimeZones >

TimeZone Options		MENU 7-5-3
1	Invert Period Logic	N
2	Master Edit Allowed	N
3	Reserved	N
4	Reserved	N
5	Reserved	N
6	Reserved	Y
7	Reserved	N
8	Reserved	Y

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.

System > Holidays >

Holiday Name											MENU 7-6-0					
H	o	i	d	a	y	1	N	a	m	e						

Use the [←] and [→] keys to scroll cursor left and right. Use the [0] – [9] keys or the [↑] and [↓] keys to scroll characters, then press [OK] to save. Press [OFF] to clear text 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	

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



Press [OFF] to disable the holiday.

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	Cannot Change Own PIN	N
5	Reserved	N
6	Monitor Default PINs	Y
7	PIN Always Required	N
8	Display Menu Numbers	Y

(*** System Wide Parameter ***)

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.

System > System Options >

Area Options		MENU 7-7-1
1	Area 1 Common	N
2	First Open Last Close	N
3	Reset Siren All Users	Y
4	Power Up As Down	Y
5	Fault ACK All Areas	Y
6	Delay Trouble Beeps	Y
7	Power Up Disarmed	N
8	Reserved	N

(*** System Wide Parameter ***)

Use the [↑] and [↓] keys to scroll the list of options. Select the option required, then press [ON] or [OFF] to enable or disable. A [✓] will display to indicate option set. Press [OK] to save when finished.

System > System Options >

Keypad Idle Screen		MENU 7-7-2
(*** System Wide Parameter ***)		0 0

- 00 - No Idle Screen
- 01 - Date And Time
- 02 - Time
- 03 - Custom Screen

Use [↑] and [↓] keys or enter 0 - 3, then press [OK] to program the keypad idle screen - Single option only.

System > System Options >

Keypad Hi/Lo Temp		MENU 7-7-3
0 0 0 °C	0 0 0 °C	
Hi TEMP	Lo TEMP	

(*** System Wide Parameter ***)

Use [↑] and [↓] Keys To Program The High / Low Keypad Monitor Temperature. Max = 50 / Min = 0.

Specifications

Panel	Solution 144 (Part Number CC600)	
Voltage Input	16-18V A.C. 50-60Hz - 24VA External Power Adaptor or 220-240V A.C. to 18V A.C. 50-60Hz - 24VA Internal Transformer (Primary Power Source)	
Continuous Power	1 Amp MAX (Combined power drawn from Accessory Power(+12V) LAN Power (Module LAN +) and Output Power (C+) terminals must not exceed 1 amp)	
Alarm Power	4 Amp (Total with Primary and Secondary Power Sources Fitted)	
Stand-by Battery	12 VDC, 7.2AH sealed rechargeable battery - Panasonic LC-P127R2P or equivalent. (Secondary Power Source) Dispose of used batteries according to the instructions.	
Min Operating Voltage	10.2 VDC	
Battery Charger	Pulse by pulse charger. (Note: Charge voltage can't be measured unless battery is fitted.)	
Module Connection (RS485 LAN)	Max total LAN length using multi strand security cable = 300m , Max total LAN length using 2 pair twisted shielded data cable (Belden 8723) = 1200m. See the product installation manual for complete wiring instructions.	
Telephone Connections	RJ-12 Socket or 4-way terminal	
Temperature	0° to 55° C	
Enclosure Fixing Method	<p>CM720B - Small Enclosure Use appropriate fasteners capable of handling a minimum of 6kg to fix the cabinet against a sturdy surface using the mounting holes provided.</p> <p>CM730B - Large Enclosure Use appropriate fasteners capable of handling a minimum of 12kg to fix the cabinet against a sturdy surface using the mounting holes provided.</p>	
Relative Humidity	5 to 85% non-condensing.	
Compatible Keypads	CP700B - Graphic Keypad - White CP701B - Graphic Keypad + Prox - White	CP710B - Graphic Keypad - Black CP711B - Graphic Keypad + Prox - Black
Compatible Accessories	CM704B - 8/16 Zone Expander CM710B - 4 Way Relay Output Module CM720B - 1-Amp LAN Power Supply CM195B - Multi RF Receiver Interface CP150B - External Vandal Resistant Keypad CP151B - Slim Style Vandal Resistant Keypad CM705B - Universal Expander Module CM797B - LAN Isolator Module	SW500B - Solutionlink (RAS) Software CM900 - Direct Link Interface MW730B - Large Enclosure CM743B - 2G GSM Interface Module PR111B - External LAN Prox Reader CM728 - Fingerprint Reader CM750B - Ethernet Module CM101B - Voice Module
Enclosure Dimensions:	P/N: MW720B - (W)385, (H)280, (D)90mm P/N: MW730B - (W)385, (H)520, (D)90mm	
PWA Dimensions:	(W) 235, (H) 85 (H), (D) 40mm	
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 MW720B 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 Plated Screws 1 x Telephone Cable RJ12 6P/4C 1 x Pack PCB Mounting Clips (5 pc/pack)	10 x 3K3 – 0.25W +/- 1% Metal Film Resistors 10 x 6K8 – 0.25W +/- 1% Metal Film Resistors 1 x 3-Way Removable Terminal Block 1 x Panel Tamper Switch + Tamper Lead 1 x Tamper Switch Bracket 1 x Product Identification Label
Available Separately	Solution 144 Installation Manual Part Number BLCC600I Solutionlink (RAS) Software Part Number: SW500B	

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