



ELECTRONICS  
DESIGN &  
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# *Solution-16 Operators Manual*

ISSUE 1.40





# *Solution- 16*

## **Operators Manual**

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SYDNEY, AUSTRALIA

**Document Part Number MA8800**  
**Document Issue 1.40**  
**Printed 29 July 1997**

**This documentation is provided to suit the *Solution- 16* Control Panel (CC880/LP880)**  
Firmware Revision 1.30 - 1.40  
Hardware Revision F

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## *Introduction*

Congratulations on selecting the *Solution-16* control system to protect you and your property. So that you can obtain the most from your unit, we suggest that you take the time to read through this manual and familiarise yourself with the numerous outstanding operating features of this system.

You will notice that in all aspects of planning, engineering, styling, operation, convenience and adaptability, we have sought to anticipate your every possible requirement. Programming simplicity and speed have been some of the major considerations and we believe that our objectives in this area have been more than satisfied.

This manual will explain all aspects of operating the control panel. All system parameters and options are detailed, however suitability is left up to the individual. Every system can be tailored to meet all requirements quickly and easily.

The *Solution* range of control panels is very popular with thousands of people throughout many countries of the globe, all of whom have various levels of technical aptitude and ability. We have tried to aim this manual at all levels of readers.

As *Solution* has continued to be improved over the years, it has become very powerful. Some of its early first-time users have advanced to true “power users” and we need to address their needs too, while maintaining the simplicity of the manual and the product.

This operators manual is intended for **BOTH** the *Solution-16* Dialler (CC880) and the *Solution-16* Local (LP880) control panels. If you have a local panel (LP880), disregard all references and features in this manual which involve telephone dialling.

## Features

The *Solution- 16* security control system uses the very latest in microprocessor technology to provide you with more useful features and superior reliability and performance.

Following is a list of some of the features and why they will be of benefit to you.

- Operating codes may be up to seven digits long. This allows for a far greater combination of codes and therefore a higher degree of security.
- Dynamic battery testing continually tests and monitors the stand-by battery's condition. As batteries do not last forever, this feature will warn you of a poor battery condition before an alarm occurs.
- Day alarm warning allows you to monitor the opening of a front door in a shop or to prohibit access into a particular area while the system is still disarmed.
- Remote arming is a unique feature that allows you to arm your system from any telephone in the world. This is very useful if you forget to arm your system.
- The built in telephone dialler will alert you or your monitoring station of any alarm or adverse event 24 hours a day. This highly sophisticated communications system is capable of identifying and reporting many different events. For further information, please contact your installer.
- All of the system configuration information is stored in non volatile memory which means that many of the options can be programmed on site by the installer to best suit your needs. This data is retained even when the power to the system is disconnected.
- STAY mode allows you to arm the system with predetermined areas disabled. This means that you can arm your system at night while you are still at home thus giving you personal protection.

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**Note: One option that can be programmed by your installer will prevent another installer or technician from performing any service to your system. This should be discussed with your installer.**

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Refer to "Optional Equipment" on page 54 for more details on accessories and other features that can be used with your system.

## Basic System Operation

The overall purpose of your alarm system is to deter any would be intruder from entering your premises.

Before leaving your home or office, make sure all windows and doors are closed. Enter your designated **CODE** followed by the **AWAY** button. Your alarm system will now arm and commence counting down the exit time.

After the exit time expires, you will hear a long beep at the remote codepad. Any unsealed zones will be automatically isolated. The control panel is now ready to activate the sirens and strobe lights should any alarm occur.

If a zone that is sealed has triggered after exit time has expired, a number of events will occur. Following is a typical sequence of events.

1. The control panel will activate any audible devices such as sirens, flashing blue strobe light and the communications dialler if fitted and enabled.
2. The communication dialler will transmit all relevant alarm information via the telephone line alerting the respective persons of the current state of events.
3. The siren timer will commence counting down as soon as an alarm occurs. When the siren run time expires, the siren will automatically turn off and be placed into a ready state for the next alarm.
4. Upon your return, the blue strobe light may still be operating to inform you that there has been an alarm.
5. One or a number of zone indicators will be flashing, allowing you to identify the particular zone(s) that caused the alarm condition.

This is a very basic outline of the general system operation. As there are many features available in the *Solution-16* control panel, there could be numerous variations from the above sequence.

# Controls & Indicators

## The Codepad

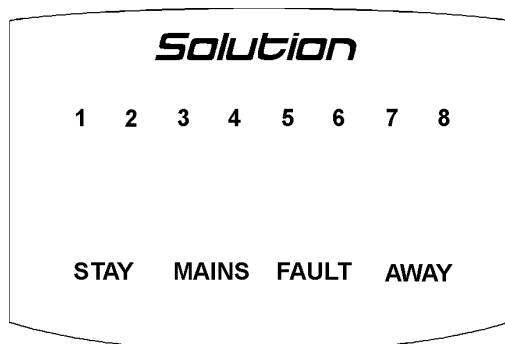


Figure 1: CP5 Codepad

The codepad is the communications interface between you and your control panel. It allows you to issue commands and offers both visual and audible indications that guide you through the general operation.

The codepad incorporates numerous indicators. There are zone indicators which are used to show the condition of each zone and four others for general status. The following is a list of situations and the relevant indications that will be seen.

## Zone Indicators

The zone indicators are used to show the status of the zones. The following table lists the various circumstances that the indicators will display (ie. Zone sealed, zone unsealed).

<i>Indicator</i>	<i>Definition</i>
<b>On</b>	Zone Is Unsealed
<b>Off</b>	Zone Is Sealed
<b>Flashing Fast (0.25 sec on - 0.25 sec off)</b>	Zone Is In Alarm Condition
<b>Flashing Slow (1 sec on - 1 sec off)</b>	Zone Is Manually Isolated

Table 1: Zone Indicators

## AWAY Indicator

The AWAY indicator is used to inform you that the system is armed in the AWAY mode.

<i>Indicator</i>	<i>Definition</i>
<b>On</b>	System Is Armed In The AWAY Mode
<b>Off</b>	System Is Not Armed In The AWAY Mode

Table 2: AWAY Indicator Functions

## STAY Indicator

The STAY indicator is used to indicate that the system is armed in the STAY mode.

<i>Indicator</i>	<i>Definition</i>
<b>On</b>	System Is Armed In The STAY Mode
<b>Off</b>	System Is Not Armed In The STAY Mode
<b>Flashing</b>	System Is In ISOLATE Mode Or STAY Mode 2 Zones Are Being Set

Table 3: STAY Indicator Functions

## MAINS Indicator

The MAINS indicator is used to indicate that the systems AC mains power is normal or has failed.

<i>Indicator</i>	<i>Definition</i>
<b>On</b>	AC Mains Power Normal
<b>Flashing</b>	AC Mains Power Failure

*Table 4: MAINS Indicator Functions*

## FAULT Indicator

The FAULT indicator is used to indicate that the system has detected a fault. Refer to “Fault Descriptions” on page 41 for more details as you may need to contact your installer.

<i>Indicator</i>	<i>Definition</i>
<b>On</b>	There Is A System Fault That Needs To Be Rectified
<b>Off</b>	The System Is Normal There Are No Faults
<b>Flashing</b>	There Is A System Fault Waiting To Be Acknowledged

*Table 5: FAULT Indicator Functions*

There are however some modes of operation such as changing user codes where the FAULT indicator is used to represent the number '20'. This should not be considered as a fault but interpreted as intended, according to the current mode of operation.

## Audible Indicators

In general the audible indications given out by the codepad are as follows.

<i>Indicator</i>	<i>Definition</i>
<b>One Short Beep</b>	A Button On The Codepad Has Been Pressed
<b>Two Short Beeps</b>	The System Has Accepted Your Code
<b>Three Short Beeps</b>	The Requested Function Has Been Executed
<b>One Long Beep</b>	Indicates End Of Exit Time Or The Requested Operation Has Been Denied Or Aborted
<b>One Short Beep Every Second</b>	Walk Test Mode Is Currently Active Or Warning Before Automatic Arming Takes Place
<b>One Short Beep Every Minute</b>	There Is A System Fault Waiting To Be Acknowledged








*Table 6: Audible Indications*

## LCD Codepad Indicators

EDM is committed to providing functional and aesthetically pleasing user interfaces and we feel that our unique Icon LCD codepads have met this objective.

The icon codepads provide full zone status indication at all times as well as a number of special icons which indicate such things as system armed, system disarmed, mains fail, system fault and numerous other system functions.

**The following table outlines all of the indicators which will be found on the codepads. A description of the various operating modes is also provided.**

<p><b>Zone Indicators</b> 1 2 3 ....</p>	<p>The ZONE indicators (1-8 on CP508L and 1-16 on CP516L) show the status of each zone. <b>Illuminated</b> = Zone Unsealed    <b>Flashing</b> = Zone In Alarm <b>Off</b> = Zone Sealed</p>
<p><b>Mains Indicator</b> </p>	<p>The MAINS Icon indicates the status of the AC mains power supply. <b>Illuminated</b> = AC Mains OK    <b>Flashing</b> = AC Mains Disconnected or fault</p>
<p><b>Armed In AWAY Mode</b> </p>	<p>The AWAY Icon illuminates when the system is armed in the Away mode. The <b>ON</b> indicator will also illuminate when in the Away mode.</p>
<p><b>Armed In STAY Mode</b> </p>	<p>The STAY Icon illuminates when the system is armed in the Stay mode. The <b>ON</b> and <b>OFF</b> indicators will also illuminate when in the Stay mode.</p>
<p><b>System Disarmed</b> </p>	<p>The Disarmed Icon illuminates when the system is fully disarmed. The <b>OFF</b> indicator will also illuminate when in the disarmed state.</p>
<p><b>Zone Isolating Mode</b> </p>	<p>This indicator will illuminate when in Zone Isolating Mode. The person will flash once every 3 seconds.</p>
<p><b>Fault Indicator</b> </p>	<p>The FAULT Icon will illuminate if the system has a fault condition. <b>Steady</b> = A fault has been acknowledged.    <b>Flashing</b> = A new fault has occurred.    <b>Off</b> = No faults have occurred.</p>
<p><b>Programming Mode</b>  Flashing</p>	<p>This indicator will illuminate when the system is in any programming mode.  Both persons will flash.</p>
<p><b>Off Indicator / Zone Unsealed</b> <b>OFF</b></p>	<p>The OFF Icon will illuminate when the system is in the disarmed state and will flash when a zone becomes unsealed. It will stop flashing when all zones are sealed.</p>
<p><b>On Indicator / Zone In Alarm</b> <b>ON</b></p>	<p>The ON Icon will illuminate when the system is armed in the Away mode and will flash when an alarm occurs. The indicator will reset once a valid user code is entered.</p>

## Codepad Functions

The following pages will describe how to use and interpret the many codepad functions that are available on the *Solution- 16* control panel.

Most functions are performed using the Master Code. Refer to “Master Code Functions” on page 28 for more information.

Before attempting to enter any of the Master Code functions, ensure that the system is in the disarmed state and that there are no alarm memory indicators flashing. If this is not the case the following will be required.

- If the zone indicators are flashing fast, enter your **CODE** followed by the **AWAY** button.
- If the system becomes armed (ie. The AWAY indicator is illuminated), enter your **CODE** followed by the **AWAY** button. This will place the system back into the disarmed state.
- If the system is not disarmed (ie. The AWAY or STAY indicators are illuminated), enter your **CODE** followed by the **AWAY** button.

The factory default Master Code is **2580**. This code can be changed at any time. Therefore if your system Master Code differs from the default, please substitute your existing Master Code in the following examples.

This code allows you to change any users code and even the Master Code itself. It is also the only code that allows the execution of special functions as detailed later in this manual.

## Code Retries

Code retries restricts the amount of times an invalid user code can be used in an attempt to operate the system. An alarm caused by this is known as a “Codepad Tamper Alarm”. When a codepad tamper alarm occurs, the system will carry out the following events;

1. Activate the sirens and strobe connected to the control panel. Contact your installer if you require this to be silent.
2. Shutdown all codepads that are connected and automatically disable them from operating the system. The length of time they are disabled for is programmed by your installer.
3. Send an “Access Denied” report to the base station receiver (Optional).

This function works when the system is in the armed or disarmed state. Each time the system is armed or disarmed the code retry counter is reset. The number of incorrect code attempts can be anywhere between 1 to 15. This value is programmed by your installer. Refer to “Installation Notes” on page 62 for the number of code retries set by your installer.

### *Codepad Lockout Time*

The codepad will be locked out for the time programmed by your installer if the wrong code has been entered more times than allowed by the code retry attempts.

### *Codepad Extinguish Mode*

This option when programmed by your installer will cause the indicators on your codepad to automatically extinguish if the codepad is not used for a period of sixty seconds.

The indicators will illuminate once a button has been pressed on the remote codepad. The indicators will also illuminate when an alarm occurs or when the system is in entry time. The indicators will not illuminate if a silent alarm is triggered. This option can only be programmed by your installer.

### *Alarm Memory*

If when you return to your premises you notice the strobe light flashing, then care should be taken as this means that there has been an alarm condition while you were away.

When you enter the building and turn the system off, you will notice one or a number of zone indicators flashing rapidly. This indicates that the zone(s) in question have triggered into alarm.

If the zone indicator is flashing fast (On 0.25 sec/Off 0.25 sec), then this indicates that one of the 16 burglary zones has gone into alarm. You should take note of this information so that it can be passed onto your installer should they require it.

It is also possible to interrogate your alarm system using the “Event Memory Recall” function. This will allow you or your installer to interpret the exact sequence of events that occurred. Refer to “Event Memory Recall” on page 32 for more information.



# System Operations

## Arming In AWAY Mode

There are two methods for arming your system in the AWAY mode. Method one is standard and will always operate. Method two is optional and needs to be programmed by your installer. Refer to your “Installation Notes” on page 62 to check if method two has been enabled.

### Method One

- **To Arm Your System In AWAY Mode.**

Enter your **CODE** followed by the **AWAY** button.

Two beeps will be heard and the AWAY indicator will illuminate. Exit time will now begin.



### Method Two

- **To Arm Your System In AWAY Mode**

Hold the **AWAY** button down until two beeps are heard.

The AWAY indicator will illuminate and exit time will now begin.



If a zone is not sealed at the end of exit time it will be automatically isolated. It will become an active part of the system again as soon as it is sealed (**ie.** If a window is opened during exit time, the window will not be an active part of the system until it is closed. Opening the window after this time will cause an alarm condition).

## Forced Arming

The feature of arming the system when a zone is not sealed is known as forced arming. If this feature is not suitable, your installer can program your control panel so that it will not arm unless all zones are sealed.

If the AWAY indicator does not illuminate and a long beep is heard, forced arming is not permitted. If this is the case, you must ensure that all zones are sealed or manually isolated before you will be allowed to arm the system.

## Disarming From AWAY Mode

- **To Disarm Your System From AWAY Mode**

Enter your **CODE** followed by the **AWAY** button.

Two beeps will be heard and the AWAY indicator will extinguish. A flashing zone indicator represents a previous alarm on that zone.



## Arming In STAY Mode 1

STAY mode 1 is when the system has been armed with particular zones automatically isolated. These zones must be programmed by your installer.

When there is a need to arm only the perimeter of your building, this mode is extremely handy. It automatically disables the interior detection zones allowing for movement within the protected area while at the same time arming the perimeter zones.

There are two methods for arming your system in STAY mode 1. Method one is standard and will always operate. Method two is optional and needs to be programmed by your installer. Refer to “Installation Notes” on page 62 for your method of arming in STAY mode 1.

### Method One

- **To Arm Your System In STAY Mode 1**

Enter your **CODE** followed by the **STAY** button.

Two beeps will be heard and the STAY indicator will illuminate. Any zones that have been programmed for STAY mode 1 will be automatically isolated and their respective indicators will begin to flash until exit time expires. At the end of exit time the zone indicators will extinguish.



### Method Two

- **To Arm Your System In STAY Mode 1**

Hold the **STAY** button down until two beeps are heard.

The STAY indicator will illuminate and any zones that have been programmed for STAY mode 1 will be automatically isolated and their respective indicators will begin to flash until exit time expires. At the end of exit time the zone indicators will extinguish.



If a zone is not sealed at the end of exit time it will be automatically isolated. It will become an active part of the system as soon as it is sealed (ie. If a window is opened before the end of exit time, it will not be an active part of the system until it is closed. Opening the window after this time will cause an alarm condition).

The feature of arming the system when a zone is not sealed is known as forced arming. If this feature is not suitable, your installer can program your system so that it will not arm unless all zones are sealed.

If the STAY indicator does not illuminate and a long beep is heard, forced arming is not permitted. If this is the case, you must ensure that all zones are sealed or manually isolated before you will be allowed to arm the system.

## Disarming From STAY Mode 1

### Method One

- **To Disarm Your System From STAY Mode 1**

Enter your **CODE** followed by the **AWAY** button.

Two beeps will be heard and the STAY indicator will extinguish. A flashing zone indicator represents a previous alarm on that zone.



### Method Two

- **To Disarm Your System From STAY Mode 1**

Hold the **STAY** button down until two beeps are heard.

The STAY indicator will extinguish. If your system does not disarm and you see a flashing zone indicator, method one will need to be used. Method two does not operate after an alarm has occurred.



## Arming In STAY Mode 2

STAY mode 2 is when the system has been armed with particular zones automatically isolated. Any Master Code user can program these zones before the system can be armed in STAY mode 2. Refer to “Master Code Functions” on page 28 for details on how to program zones for STAY mode 2.

When there is a need to arm the perimeter of your building, this mode is extremely handy. It automatically disables the interior detection zones allowing for movement within the protected area while at the same time arming the perimeter zones.

- **To Arm Your System In STAY Mode 2**

Hold the **O** button down until two beeps are heard.

The STAY indicator will illuminate and any zones that have been programmed for STAY mode 2 will be automatically isolated and their respective indicators will begin to flash until exit time expires. At the end of exit time the zone indicators will extinguish.



If a zone is not sealed at the end of exit time it will be automatically isolated. It will become an active part of the system as soon as it is sealed (**ie.** If a window is opened before the end of exit time, it will not be an active part of the system until it is closed. Opening the window after this time will cause an alarm condition).

The feature of arming the system when a zone is not sealed is known as forced arming. If this feature is not suitable, your installer can program your system so that it will not arm unless all zones are sealed.

If the STAY indicator does not illuminate and a long beep is heard, forced arming is not permitted. If this is the case, you must ensure that all zones are sealed or manually isolated before you will be allowed to arm the system.

## Disarming From STAY Mode 2

### Method One

- **To Disarm Your System From STAY Mode 2**

Enter your **CODE** followed by the **AWAY** button.

Two beeps will be heard and the STAY indicator will extinguish. A flashing zone indicator represents a previous alarm on that zone.



### Method Two

- **To Disarm Your System From STAY Mode 2**

Hold the **O** button down until two beeps are heard.

The STAY indicator will extinguish. If your system does not disarm and the codepad has a flashing zone indicator, method one will need to be used. Method two does not operate after an alarm has occurred.



## Isolating Zones

When a zone is isolated, access is allowed into that zone at all times. Isolating zones is performed by one of two methods. One way requires the use of a valid user code while the other way does not. The ability to isolate zones is governed by the priority level allocated to each user code holder. Some user code holders may not be able to isolate zones. Refer to “Installation Notes” on page 62 for your method of isolating.

Twenty four hour zone types and zones not used cannot be isolated. If isolation of these zones is attempted a long beep will be heard.

### Code Only To Isolate

#### To Isolate Zones

1. Press the **STAY** button.
2. Enter your **CODE**.
3. Press the **STAY** button. Three beeps will be heard.
4. \* Enter the **ZONE NUMBER** you require to be isolated.
5. Press the **STAY** button.
6. \* Enter the **ZONE NUMBER** you require to be isolated.
7. Press the **STAY** button.
8. Press the **AWAY** button when finished. Two beeps will be heard.

**Isolated zone indicators will continue to flash. The system is ready to be armed.**

**STAY** + **CODE** + **STAY** + **ZONE NUMBER** + **STAY**  
 + **ZONE NUMBER** + **STAY** + **AWAY**

### Standard Isolating

#### To Isolate Zones

1. Press the **STAY** button.
2. Press the **STAY** button again. Three beeps will be heard.
3. \* Enter the **ZONE NUMBER** you require to be isolated.
4. Press the **STAY** button.
5. \* Enter the **ZONE NUMBER** you require to be isolated.
6. Press the **STAY** button.
7. Press the **AWAY** button when finished. Two beeps will be heard.

**Isolated zone indicators will continue to flash. The system is ready to be armed.**

**STAY** + **STAY** + **ZONE NUMBER** + **STAY**  
 + **ZONE NUMBER** + **STAY** + **AWAY**

- \* As each zone is isolated, the corresponding zone indicator will begin to flash. If a mistake is made, re-enter the zone number that was incorrectly entered followed by the **STAY** button. This zone will no longer be isolated and the zone indicator will stop flashing.

## User Codes

The purpose of user codes is to arm and disarm the system as well as perform other specific functions as described in “Master Code Functions” on page 28.

User codes can be any length from one to seven digits long. Each user code can have a different priority level allocated to it. This controls the behaviour of the code, allowing it to arm only or to arm and disarm etc. Discuss this further with your installer.

### User Code Priority Level

There are seven different priority levels that can be allocated to user codes 1 - 32. Each priority level allows or restricts the functions that different user codes can perform.

---

**Note:** Once user code priority levels 4, 6 and 12 have been enabled to any of the available 32 user codes, the method of “Standard Isolating” will no longer operate. Only those user codes with the priority level of 4, 6 and 12 will be able to isolate zones using the method “Code To Isolate”.

---

Priority Level	Description
0	Arming & Disarming
1	Arming Only
2	Patrolman Code
4	Arming/Disarming + Code To Isolate
6	Patrolman Code + Code To Isolate
8	Arming/Disarming + Master Code Functions
12	Arming/Disarming + Master Code Functions + Code To Isolate

*Table 7: User Code Priority Levels*

#### 0 Arming & Disarming

This level allows the user code to arm and disarm the system only.

#### 1 Arming Only

This level allows the user to arm the system but not disarm it. Resetting an alarm which has occurred during the disarmed state (**ie.** A 24 hour zone) is also allowed.

#### 2 Patrolman Code

A Patrolman Code will allow you to issue a user code which will only disarm after an alarm has occurred. This will prevent unauthorised use of the code. A Patrolman Code can always arm the system.

#### 4 Arming/Disarming + Code To Isolate

Isolating of zones will only be allowed by using the method “Code To Isolate” once this priority level has been set. Standard Isolating will be disabled for all user code holders. This level also allows arming and disarming of your system.

#### 6 Patrolman Code + Code To Isolate

This level allows a user with a Patrolman Code to disarm the system once an alarm has occurred. Isolating Zones will only be allowed by using the method “Code To Isolate” once this priority level has been set. Standard Isolating will be disabled for all user code holders. A Patrolman Code can always arm the system.

## 8 Arming/Disarming + Master Code Functions

Master Code functions will be accessible to any code having this priority level selected. More than one code can be allocated to this priority level. This priority level also allows arming and disarming of the system. Refer to page 28 for further information regarding “Master Code Functions”.

## 12 Arming/Disarming + Master Code Functions + Code To Isolate

Master Code functions will be accessible to any code having this priority level selected. More than one code can be allocated to this priority level. This priority level also allows arming and disarming of the system. Isolating zones will only be allowed by using the method “Code To Isolate” once this priority level has been set. Standard Isolating will be disabled for all user code holders. Refer to page 28 for further information regarding “Master Code Functions”.

Priority Level	Arm	Disarm	Patrolman Code	Standard Isolate	Master Code	Code To Isolate
0	✓	✓		✓		
1	✓			✓		
2	✓		✓	✓		
4	✓	✓				✓
6	✓		✓			✓
8	✓	✓		✓	✓	
12	✓	✓			✓	✓

Table 8: User Code Priorities

## Auxiliary Codes

Auxiliary codes can be used to operate a device via one of the programmable outputs available in your system. An auxiliary code could be used to unlock a door that is fitted with an electric strike or to turn on and off security lighting. There is an unlimited number of uses for auxiliary codes and your installer can program these to suit your requirements. Refer to “Installation Notes” on page 62.

There are two auxiliary codes available in your system and these can be any length from one to seven digits long. The priority level controls the behaviour of the code, allowing it to operate when the system is armed or disarmed etc.

### Auxiliary Code Priority Level

Number	Priority Level
1	Work When System Is Armed
2	Work When System Disarmed
4	Work Always As Long As No Alarm Memories Are Present
5	Work If Armed & No Alarm Memories Are Present
6	Work If Disarmed & No Alarm Memories Are Present
7	Work If Armed Or Disarmed & No Alarm Memories Are Present

Table 9: Auxiliary Code Priority Level

## Day Alarm

This may be useful to monitor the front door of a shop or a pool gate. Day alarm enables a combination of zones to be monitored while the system is in the disarmed state. An indication is available via any of the programmable outputs including the codepad buzzer. Only zones 1 - 8 may be used as day alarm monitored zones. Refer to “Installation Notes” on page 62 to check which zones have been allocated to operate for day alarm.

### Day Alarm Resetting

An output that is programmed as Day Alarm Resetting will operate when a zone selected for day alarm is triggered. The output will reset when the zone returns to normal. This can only occur if the system is disarmed.

### Day Alarm Latching

An output that is programmed as Day Alarm Latching will operate when a zone selected for day alarm is triggered. The output will reset when the **AWAY** button is pressed. This can only occur when the system is disarmed.

### Operation

Day Alarm is turned on and off by holding the **4** button down for two seconds. Refer to “Hold Down Functions” on page 38 for more details. Three beeps means day alarm is turned on, two beeps means day alarm is turned off.

If a zone has been programmed for day alarm, it can be isolated in the normal way. The isolated zone will not register as a day alarm.

### Example

If you have multiple zones programmed for day alarm and one of them is triggered, it is difficult to know which zone caused the day alarm. Using a latching day alarm will solve the problem. When a day alarm trigger occurs, all zone indicator's are turned off leaving only the zone or zones that caused the day alarm illuminated. To clear the memory, press the **AWAY** button.



## Codepad Duress Alarm

A codepad duress alarm can be used as a hold up alarm. This will occur when the number **9** is added to the end of any valid user code that is being used to disarm the system. Adding a **9** to the end of a code when arming the system will not cause a duress alarm. A codepad duress alarm is always silent and can only be made use of if your control panel is reporting back to a monitoring station or pocket pager.

**CODE** + **9** + **AWAY**

### Codepad Panic - (Versions Up To 1.36)

A codepad panic alarm will occur when any two outside buttons in the same horizontal row on a codepad are pressed simultaneously. This is an audible alarm. Discuss this with your installer if you require the panic alarm to be silent.

**1 3** or **4 6** or **7 9** or **STAY** **AWAY**

### Codepad Panic - (Version 1.37 Onwards)

A codepad panic alarm will occur when either the two outside buttons **1** and **3** or **STAY** and **AWAY** on the same horizontal row on a codepad are pressed simultaneously. This is an audible alarm. Discuss this with your installer if you require the panic alarm to be silent.

**1 3** or **STAY** **AWAY**

### Codepad Fire Alarm - (Version 1.37 Onwards)

A codepad fire alarm will occur when the **4** and **6** buttons on the codepad are pressed simultaneously. This is an audible alarm. Discuss this with your installer if you require the codepad fire alarm to be disabled. A distinct fire sound is emitted through the horn speaker to indicate this type of alarm condition. This fire sound is different to the burglary sound.

**4 6**

### Codepad Medical Alarm - (Version 1.37 Onwards)

A medical alarm will occur when the **7** and **9** buttons on the codepad are pressed simultaneously. This is an audible alarm. Discuss with your installer if you require the medical alarm to be disabled.

**7 9**

## *Entry Time*

Entry time is the amount of time allowed to disarm your system after you have opened the first entry delay zone. During the entry time, the codepad buzzer will beep twice per second warning you to disarm your system. If you do not disarm your system before the entry time expires, an alarm will be activated. Refer to “Installation Notes” on page 62 for the programmed entry time set by your installer.

## *Exit Time*

Exit time is the amount of time you have to leave your premises after you have entered your code to arm the system. You will hear a long beep from the codepad to indicate the end of exit time. Make sure you exit your premises before this time expires. Refer to “Installation Notes” on page 62 for the programmed exit time set by your installer.

## *Sensor Watch Time*

Sensor watch is part of control panel’s watchdog circuitry. It is a feature designed to ensure that all your detection devices are working correctly.

Sensor watch time determines how many days (0-99) a zone may remain sealed before registering as a fault. This feature is only active while the system is in the disarmed state because while your system is armed, the detection devices are on stand-by waiting to be activated.

If a zone programmed for sensor watch has not triggered and reset during this time, the FAULT indicator will illuminate and the codepad will beep once every minute. To cancel the codepad beeping once every minute, press the **AWAY** button. Refer to “Fault Descriptions” on page 41 for more information. Refer to “Installation Notes” on page 62 to check if “Sensor Watch Time” has been programmed by your installer..

## *System Date and Time*

The control panel has a real time 12 month calendar and 24 hour clock that needs to be set and changed for daylight savings. This will allow the system to log events and send test reports with accurate time stamping if programmed. Refer to “Master Code Functions” on page 28 for more information.

## *Automatic Arming*

This feature is used to automatically arm your system in the AWAY mode or STAY mode 1 at the same time every day. Refer to your “Installation Notes” on page 62 to see if your system will automatically arm in the AWAY mode or in STAY mode 1. Your auto arm warning time is listed here as well.

### **Warning Time Before Auto Arming**

This is the time period before your system will automatically arm. The codepad will beep once every second until the warning time has expired, after which the system will arm and the exit time will commence. If you do not wish your system to arm when you hear the pre alert warning, enter your user code to extend the auto arming time by one hour.

## *Automatic Operation of an Output*

Your installer can program your system to turn on devices such as your air conditioner, lights or pool filter at the same time every day.

### **Warning Time Before An Output Operates**

This is the time period before your system will automatically operate a piece of equipment. The codepad will beep once every second until the warning time has expired.

If you do not wish your system to operate the piece of equipment when you hear the pre alert warning, enter your code to extend the time before the operating time of the output by one hour.

# Special Functions

## Master Code Functions

Master Code functions are designed to allow those users that have the appropriate priority level to perform certain supervisory functions. These functions can only be carried out while the system is in the disarmed state.

When changing or deleting user codes it is important that you know the number of the user you wish to change or delete. Your installer should provide you with this information at the time of installation.

**Note:** The default Master Code is **2580** and is known as User 1. It is possible for this system to have multiple Master Codes. Please check with your installer as to how your system is configured.



Function	Description
0	Arming and Disarming All Areas - Partitioned Systems Only
1	Changing & Deleting User Codes
2	Changing Domestic Phone Numbers
3	Event Memory Recall Mode
4	Walk Test Mode
5	Turning Outputs On and Off (* = Off # = On)
6	Setting The Date and Time
7	Reserved
8	Setting Zones For STAY Mode 2
9	Reserved

Table 10: Master Code Functions

### 0 Arming and Disarming All Areas - Partitioned Systems Only

This option allows you to arm or disarm all areas at the same time that you belong to. All areas will arm or disarm to follow the state of the area that the code was entered from (ie. If you disarm an area, all other areas will disarm, or, if you arm an area, all other areas will arm as well).

This allows the user to ensure that all areas will be armed by pressing one extra button rather than entering the user code at each area codepad.

#### To Arm Or Disarm All Area At The Same Time

1. Enter your **MASTER CODE** followed by **0** and the **AWAY** button. Two beeps will be heard.



## 1 Changing & Deleting User Codes

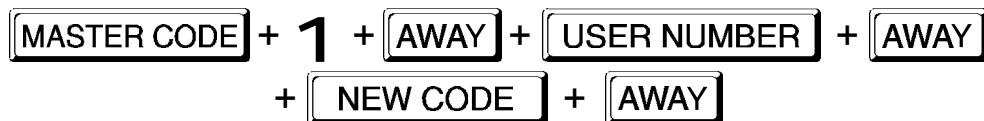
### Changing User Codes

This function allows a Master Code holder to add or change a user code.

#### To Add or Change A User Code

1. Enter your **MASTER CODE** followed by **1** and the **AWAY** button.  
Three beeps will be heard and the STAY and AWAY indicators will begin to flash.
2. Enter the **USER NUMBER** (1-32) that you wish to add or change followed by the **AWAY** button. Two beeps will be heard and the corresponding zone indicator will illuminate. Refer to “Table 11: Indicators For User Numbers” on page 30.
3. Enter the digits required for the **NEW CODE** followed by the **AWAY** button.  
Two beeps will be heard and the STAY and AWAY indicators will extinguish.

**If a long beep is heard then the code you are trying to create is already in the system.**



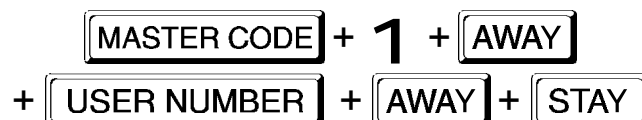
### Deleting User Codes

This function allows a Master Code holder to delete any of the system user codes.

#### To Delete A User Code

1. Enter your **MASTER CODE** followed by **1** and the **AWAY** button.  
Three beeps will be heard and the STAY and AWAY indicators will begin to flash.
2. Enter the **USER NUMBER** (1-32) that you wish to delete followed by the **AWAY** button. Two beeps will be heard and the corresponding zone indicator will illuminate. Refer to “Table 11: Indicators For User Numbers” on page 30.
3. Press the **STAY** button to delete the user code.  
Two beeps will be heard and the STAY and AWAY indicators will extinguish.

**If you wish to erase any further codes, repeat this procedure as many times as required.**




---

**Note:** When changing or deleting user codes, the code change mode will automatically terminate if a button is not pressed within sixty seconds. Pressing the **AWAY** button will also terminate the session at any time.

---

## Auxiliary Codes

Auxiliary Codes one and two are treated as user codes thirty three and thirty four respectively. To alter auxiliary codes one or two, follow the same procedure as explained in “Master Code Function - Changing & Deleting User Codes” on page 29.

One long beep in the code alteration mode indicates an error. An error will occur if the code entered already exists or an incorrect user number was selected.

## Indicators For Changing Codes

User No	Zone 1 Light	Zone 2 Light	Zone 3 Light	Zone 4 Light	Zone 5 Light	Zone 6 Light	Zone 7 Light	Zone 8 Light	MAINS Light	FAULT Light
1	✓									
2		✓								
3			✓							
4				✓						
5					✓					
6						✓				
7							✓			
8								✓		
9	✓							✓		
10									✓	
11	✓								✓	
12		✓							✓	
13			✓						✓	
14				✓					✓	
15					✓				✓	
16						✓			✓	
17							✓		✓	
18								✓	✓	
19	✓							✓	✓	
20										✓
21	✓									✓
22		✓								✓
23			✓							✓
24				✓						✓
25					✓					✓
26						✓				✓
27							✓			✓
28								✓		✓
29	✓							✓		✓
30									✓	✓
31	✓								✓	✓
32		✓							✓	✓
33			✓						✓	✓
34				✓					✓	✓

Table 11: Indicators For User Numbers

## 2 Changing Domestic Phone Numbers

This option allows a Master Code holder to view and program the required telephone numbers that the system will call in the event of an alarm. This option is only applicable if your system is programmed for the domestic dialling format. For a more detailed description on “Domestic Tone Reporting”, refer to page 48.

### To Change Domestic Phone Numbers

1. Enter your **MASTER CODE** followed by **2** and the **AWAY** button.  
Three beeps will be heard and the STAY and AWAY indicators will begin to flash.

If there are phone numbers already programmed, they will be displayed one digit at a time via the zone indicators on your codepad. Refer to “Table 12: Indicators For Programming Domestic Phone Numbers” for the indicators and their meanings. Two beeps will be heard after the last digit has been displayed on the zone indicators.

If there are no previous phone numbers programmed, a further two beeps will be heard after entering this mode indicating there are no phone numbers currently programmed.

2. Enter the required **PHONE No.** (Each number will be displayed as it is entered).
3. After each phone number, press the **STAY** button before entering the next phone number. This separates the end of the first phone number and the beginning of the next.
4. After the last phone number has been entered, press the **AWAY** button.

**MASTER CODE** + **2** + **AWAY**  
 + **PHONE No. 1** + **STAY** + **PHONE No. 2** + **AWAY**

### *Indicators For Phone Numbers*

Digit	Zone 1 Light	Zone 2 Light	Zone 3 Light	Zone 4 Light	Zone 5 Light	Zone 6 Light	Zone 7 Light	Zone 8 Light	Mains Light
1	✓								
2		✓							
3			✓						
4				✓					
5					✓				
6						✓			
7							✓		
8								✓	
9	✓							✓	
0									✓

*Table 12: Indicators For Programming Domestic Phone Numbers*

### 3 Event Memory Recall

This feature allows you to playback the last forty events that have occurred to the system. If the system has been partitioned, only 10 events will be displayed for each area.

The “Event Memory Recall” mode reports all alarms and arming or disarming of the system in the STAY or AWAY modes. This function helps with trouble shooting of the system. The events are displayed via the zone indicators on your codepad.

#### To Enter The Event Memory Recall Mode

1. Enter your **MASTER CODE** followed by **3** and the **AWAY** button. Three beeps will be heard.

The events will be played back via the zone indicators on the codepad in reverse chronological order.



#### Example

If the events were as follows:

<i>Event No</i>	<i>Event Type</i>
1	System Armed
2	Alarm Zone 3
3	Alarm Zone 4
4	System Disarmed

Table 13: Example Events

The event memory playback will report as follows:

<i>Event No</i>	<i>Event Type</i>	<i>Indicator</i>
4	System Disarmed	All Indicators Off Except Mains Indicator
3	Zone 4 Alarm	Zone 4 Indicator Illuminates
2	Zone 3 Alarm	Zone 3 Indicator Illuminates
1	Zone Armed in AWAY Mode	AWAY Indicator Illuminates

Table 14: Example Event Playback

Each event is indicated by a beep and an illuminated indicator. Resetting a 24 hour alarm in the disarmed state is indicated by one beep only.

After the last event, two beeps will be heard to indicate the end of playback. The replay can be terminated at any time by pressing the **AWAY** button. This termination will be indicated by two beeps.



#### 4 Walk Test Mode

Walk Test Mode allows you to test your detection devices to ensure that they are functioning correctly. **You should perform this test on a weekly basis to test the system.**

Before entering Walk Test Mode, isolate any zones that are not required for testing. Refer to “Isolating Zones” on page 21.

##### Entering Walk Test Mode

1. Enter your **MASTER CODE** followed by **4** and the **AWAY** button.  
Three beeps will be heard and the STAY and AWAY indicators will begin to flash. The codepad will beep once every second while the system is in the Walk Test Mode.
2. Unseal and seal the zones to be tested.  
The codepad will sound a long beep while the horn speaker will sound a short beep every time a zone is unsealed or sealed.
3. Press the **AWAY** button when finished.  
Two beeps will be heard and the STAY and AWAY indicators will extinguish.

**MASTER CODE** + **4** + **AWAY**

## 5 Turning Outputs On and Off

Your control panel can have a maximum of up to five outputs programmed to operate various devices. These devices could be an air conditioner, security lighting or electric gates etc. They can be turned on and off using your Master Code.

### To Turn An Output 'ON' From The Codepad

1. Enter your **MASTER CODE** followed by **5** and the **AWAY** button.  
Three beeps will be heard and the STAY and AWAY indicators will begin to flash.
2. Enter the **OUTPUT No.** followed by the **AWAY** button.  
Three beeps will be heard.
3. Press **AWAY** when finished.  
Two beeps will be heard and the STAY and AWAY indicators will extinguish.

**MASTER CODE** + **5** + **AWAY** + **OUTPUT No.**  
 + **AWAY** + **AWAY**

### To Turn An Output 'OFF' From The Codepad

1. Enter your **MASTER CODE** followed by **5** and the **AWAY** button.  
Three beeps will be heard and the STAY and AWAY indicators will begin to flash.
2. Enter the **OUTPUT No.** followed by the **STAY** button.  
Two beeps will be heard.
3. Press **AWAY** when finished.  
Two beeps will be heard and the STAY and AWAY indicators will extinguish.

**MASTER CODE** + **5** + **AWAY** + **OUTPUT No.**  
 + **STAY** + **AWAY**

## 6 *Setting The Date and Time*

This date and time needs to be set whenever the panel loses all power or when daylight savings is introduced.

### To Enter A New Date and Time

1. Enter your **MASTER CODE** followed by **6** and the **AWAY** button.  
Three beeps will be heard and the STAY and AWAY indicators will begin to flash.
2. Enter the date, month, year, hour and minute using the (DD, MM, YY, HH, MM) format.
3. Now press the **AWAY** button.  
Two beeps will be heard and the STAY and AWAY indicators will extinguish.

**MASTER CODE** + **6** + **AWAY**

#### *Example*

To enter the date for the 1st January 1996 at 10:00 PM, the following should be entered;

**MASTER CODE** + **6** + **AWAY**  
+ **0** + **1** + **0** + **1** + **9** + **6** + **2** + **2** + **0** + **0** + **AWAY**

## 7 *Reserved*

## 8 *Setting STAY Mode 2 Zones*

This function allows you to select which zones you want automatically isolated when the system is armed in STAY mode 2 by holding the **O** button down. Refer to “Hold Down Functions” on page 38 for further information.

### To Set STAY Mode 2 Zones

1. Enter your **MASTER CODE** followed by **8** and the **AWAY** button.
2. Three beeps will be heard and the STAY indicator will begin to flash.
3. Enter the **ZONE NUMBER** that you want isolated followed by the **STAY** button. The zone indicator will begin to flash.
4. Enter a second or more zone numbers that you wish to isolate remembering to press the **STAY** button after each zone selected to be isolated.
5. Press the **AWAY** button when finished. Two beeps will be heard and the STAY indicator will extinguish.

**MASTER CODE** + **8** + **AWAY**  
 + **ZONE NUMBER** + **STAY** + **ZONE NUMBER** + **STAY** + **AWAY**

## 9 *Reserved*

## User Code Functions - Partitioned Systems Only

**USER CODE** + **FUNCTION** + **AWAY**

Function	Description
0	Arming and Disarming All Areas At The Same Time

*Table 15: User Code Functions*

### 0 Arming and Disarming All Areas

This option allows you to arm or disarm all areas at the same time that you belong to. All areas will arm or disarm to follow the state of the area that the code was entered from (**ie.** If you disarm an area, all other areas will disarm, or, if you arm an area, all other areas will arm as well).

This allows the user to ensure that all areas will be armed by pressing one extra button rather than entering the user code at each area codepad.

#### To Arm Or Disarm All Areas At The Same Time

1. Enter your **MASTER CODE** followed by **0** and the **AWAY** button.  
Two beeps will be heard.

**MASTER CODE** + **0** + **AWAY**

## Hold Down Functions

Hold down functions have been incorporated to allow easy activation of specific operations. When a button is held down for two seconds, two beeps will be heard and a particular function will operate. These functions are listed below.

### # *Arm The System In AWAY Mode*

Holding the **AWAY** button down until two beeps are heard will arm the system in the AWAY mode. If the system has been partitioned, holding the **AWAY** button down on an “Area Addressable” codepad will arm the area that the codepad belongs to. This function is not available on the “Master Partitioned” codepad.

### \* *Arm The System In STAY Mode 1*

Holding the **STAY** button down until two beeps are heard will arm the system in STAY mode 1. If the system has been partitioned, holding the **STAY** button down on an “Area Addressable” codepad will arm the area that the codepad belongs to in STAY mode 1.

If there has not been an alarm during the armed cycle, holding the **STAY** button down again will disarm the system. This function is not available on a “Master Partitioned” codepad.

### O *Arm The System In STAY Mode 2*

Holding the **O** button down until two beeps are heard will arm the system in STAY mode 2. If there has not been an alarm during the armed cycle, holding the **O** button down until another two beeps are heard will disarm the system.

### 1 *Horn Speaker Test*

Holding the **1** button down until two beeps are heard will sound the horn speaker for a two second burst. No other sounding device will sound in this mode.

### 2 *Bell Test*

Holding the **2** button down until two beeps are heard will sound the internal sirens for a two second burst. No other sounding device will sound in this mode. If a satellite siren has been connected to the control panel, this function will also test the horn speaker for a two second burst followed by the strobe connected to the satellite siren.

### 3 *Strobe Test*

Holding the **3** button down will operate the strobe. No other device will operate in this mode. If a satellite siren has been connected to the control panel, this function will also test the strobe on the satellite siren.

#### **To Turn Strobe Test ‘On’**

1. Hold the **3** button down until three beeps are heard.  
The strobe will begin to flash.

#### **To Turn Strobe Test ‘Off’**

1. Hold the **3** button down until two beeps are heard.  
The strobe will stop flashing.

### 4 *Turning Day Alarm On and Off*

Holding the **4** button down for two seconds will turn day alarm on or off.

#### **To Turn Day Alarm ‘On’**

1. Hold down the **4** button until three beeps are heard.  
Day alarm is now turned on.

#### **To Turn Day Alarm ‘Off’**

1. Hold down the **4** button until two beeps are heard.  
Day alarm is now turned off.

### 5 *Fault Analysis Mode*

There are various system faults that can be detected by control panel. When any of these are present, the FAULT indicator will begin to flash and the codepad will beep once every minute.

To determine the type of fault, hold the **5** button down until two beeps are heard. The STAY and AWAY indicators will begin to flash in unison with the FAULT indicator. One or more of the zone indicators (1-8) will also illuminate indicating the type of fault. Refer to “Fault Descriptions” on page 41 for more information.

To clear “Fault Analysis” mode, press the **AWAY** button once and two beeps will be heard.

<i>Zone Indicator</i>	<i>Description</i>
<b>1</b>	Low Battery
<b>2</b>	Date and Time
<b>3</b>	Sensor Watch
<b>4</b>	Horn Speaker Disconnected
<b>5</b>	Telephone Line Fault
<b>6</b>	E <sup>2</sup> Fault
<b>7</b>	Zone 16 In Alarm - Partitioned Systems Only
<b>8</b>	Communications Failure

*Table 16: Fault Indicators*

## 6 *Initiate A Modem Call*

Holding the **6** button down until two beeps are heard will force the panel to call a telephone number in an attempt to connect to your installers remote computer. Your installer may require you to do this for remote programming changes.

## 7 *Reset Latching Outputs*

Holding the **7** button down until two beeps are heard will reset any device that has been programmed to remain on once it has been activated. This could be a door bell that is required to keep ringing until someone has acknowledged it.

## 8 *Codepad ID and Beeper Tone Change*

Holding the **8** button down for two seconds performs two functions.

The first function is to indicate which area the codepad belongs to when the system has been partitioned.

The second function changes the tone of the buzzer in your codepad. There are fifty different tones to choose from and they are specific to each codepad. In a multiple codepad installation each codepad can have a different tone.

### **Function 1 - Determining The Area Number.**

1. Hold the **8** button down until two beeps are heard.
2. Release the **8** button
3. A zone indicator will illuminate
  - Z1 = Area One Codepad
  - Z2 = Area Two Codepad
  - Z3 = Area Three Codepad
  - Z4 = Area Four Codepad
  - Z7 = Master Partitioned CodepadIf no zone indicator illuminates the codepad cannot be used in partitioning.
4. Press the **AWAY** button when finished

### **Function 2 - Changing The Tone Of The Buzzer.**

1. To change the tone of the codepad buzzer, hold the **8** button down continuously. The tone of the buzzer will start to increase in pitch.

**If the codepad is an “Area Addressable” codepad or a “Master Partitioned” codepad, two beeps will be heard indicating the area of the codepad as described above. Shortly after hearing the two beeps, the tone of the buzzer will start to increase in pitch.**

2. Release the **8** button when the desired tone is reached.



## 9 *Initiate A Test Report*

Holding the 9 button down until two beeps are heard will send a test report. This is used to test the dialling and reporting capabilities of your system without causing the sirens to sound. This feature is only applicable if your system has a communications dialler fitted and enabled. Refer to “Installation Notes” on page 62 .

## *Fault Descriptions*

Whenever a system fault occurs, the FAULT indicator will flash and the codepad will beep once every minute. As these system faults can effect the operation of your system, you should contact your installer as soon as possible.

If the MAINS indicator is flashing, this is because the AC mains has been disconnected. There is no need to hold the 5 button down to determine this type of fault.

### *To Determine The Type Of Fault*

To determine the type of fault that has occurred, hold down the 5 button until two beeps are heard.

The STAY and AWAY indicators will begin to flash in unison with the FAULT indicator. One or more of the zone indicators (1-8) will also illuminate indicating the type of fault. Refer to “System Faults” on page 42 for more information.

### *To Acknowledge The Fault*

To acknowledge the fault, press the **AWAY** button. The STAY and AWAY indicators will extinguish and the FAULT indicator will stop flashing and remain illuminated. The codepad will cease its once a minute beep.

If an AC mains failure has been acknowledged, the codepad will cease its once a minute beep, however, the MAINS indicator will remain flashing until the AC mains is connected again.

---

**Warning ! Contact your installer for any reported fault.**

---

## System Faults

### 1 Low Battery

A low battery fault will register when the systems battery voltage is not capable of supplying back-up power to the system if the AC mains power fails. The battery voltage is continually being monitored.

### 2 Date and Time

A date and time fault will register every time the system is powered up or if the system automatically resets itself due to an internal fault. Refer to “Master Code Functions” on page 28 for further information on setting the date and time.

### 3 Sensor Watch

A sensor watch fault will register because one of the detection devices has stopped working. Hold down the **5** button for another two seconds to show what zone has triggered the sensor watch fault.

### 4 Horn Speaker Disconnected

A horn speaker fault will register if the horn speaker becomes disconnected from the main control panel.

### 5 Telephone Line Fault

A line fault will register if the telephone line has been disconnected from the panel for more than 40 seconds. This can only occur if the line fault module has been fitted to your system.

### 6 E2 Fault

An E<sup>2</sup> fault will register when control panel detects an internal checksum error.

### 7 Zone 16 In Alarm - Partitioned Systems Only

This fault will register when zone 16 has triggered into alarm condition if the system has been partitioned. If you are using a “Master Partitioned” codepad, the AUX indicator will be illuminated. You may need to contact your installer regarding this fault.

### 8 Communications Failure

A communications fault will register if your system was unsuccessful in calling the receiving party. The receiving party could be your monitoring station, your pager or any other telephone. This is only applicable if you have a communications dialler fitted.

#### AC Mains Failure

If the AC mains is disconnected for two minutes the MAINS indicator will flash and the codepad will beep once every minute. To stop the beeps, press the **AWAY** button. If the mains power returns, the indicator will stop flashing.

There is no need to hold down the **5** button to determine this type of fault.

# Partitioning

Your control panel can be partitioned or split into four individual areas. All four areas can be operated from one “Master Partitioned” codepad or from four separate “Area Addressable” codepads. One of each is designated to a particular area.

## Master Partitioned Codepad Indicators

The indicators on a “Master Partitioned” codepad are configured in four groups. Refer to “Figure 2: Master Partitioned Codepad” on page 44. Following is a description of what the indicators show.

### 1 Zone Indicators

Indicators (1-8) show the status of each zone. These zones belong to the area that has the “AREA DISPLAY” indicator illuminated (**ie.** If a zone indicator is illuminated, then the zone is unsealed and if the zone indicator is not illuminated, then the zone is sealed).

### 2 Area ON/OFF Indicators

The group of four “AREA ON/OFF” indicators show the status of each area (**ie.** If an indicator is illuminated, that area is armed and if the indicator is not illuminated, that area is disarmed).

### 3 Area Display Indicators

A group of four “AREA DISPLAY” indicators that show what area the zones belong to that are currently being displayed.

### 4 Status Indicators

A group of four indicators show the following:

#### *Aux Indicator*

This indicator displays when the control panel is using the telephone line communicating to the receiving party.

#### *Mains Indicator*

This indicator displays the status of the AC mains power (**ie.** If the indicator is illuminated the AC mains power is normal and if the indicator is flashing the AC mains power is disconnected).

#### *Fault Indicator*

This indicator displays the status of the systems fault register (**ie.** If the indicator is flashing the system has detected a fault which has not yet been acknowledged. If the indicator is illuminated the fault has been acknowledged and if the indicator is not illuminated the system has no faults).

#### *Partial Indicator*

Whether an area is armed in STAY mode (**ie.** If the PARTIAL indicator is illuminated, an area is armed in STAY mode and if the PARTIAL indicator is not illuminated no areas are armed in STAY mode).

## Operation Of Codepads In Partitioning

### Operating From Area “Addressable” Codepads

If you have a partitioned system with “Area Addressable” codepads, the operating procedure is exactly the same as described throughout this manual. Refer to “Hold Down Functions” on page 38 to determine what area a particular codepad belongs to.

### Operating From A “Master Partitioned” Codepad

If you have a partitioned system with a “Master Partitioned” codepad installed, the operating procedure is the same as described throughout this manual with one exception. All operations are relative to the area whose “AREA DISPLAY” indicator is illuminated at the time.

#### Example

If the “AREA DISPLAY” indicator number 4 is illuminated, all operations performed will effect Area 4 only. To perform any operations in another area, you will have to move the “AREA DISPLAY” illuminator to the desired area.

#### To Move From One Area To The Next

1. Press the **AWAY** button.  
The area display indicator will move to the next area.
2. Press the **AWAY** button again.  
The area display indicator will move to the next area.

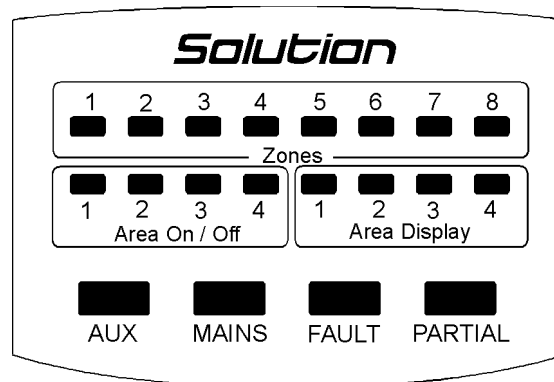


Figure 2: Master Partitioned Codepad

---

# *Communication Options*

## *Introduction*

Your *Solution- 16* control panel (CC880) has a communications dialler fitted to report all alarms and system events. These events can be reported to a number of destinations via different transmission formats. These different formats have varying levels of ability. Some can report all events while others have limitations and may report alarms only. The suitability of the different formats should be discussed with your installer.

## *Options and Accessories*

Domestic Tone Only Reporting  
Domestic Voice Message Reporting  
Back To Base Reporting Via Digital Communicator  
Back To Base Reporting Via Securitel  
Basic Pager Reporting  
Alpha Pager Reporting  
DTMF Command Module  
Voice Module  
Phone Controller

## *Remote Functions*

### *Remote Arming Using The Phone Controller*

#### *Introduction*

This feature allows you to arm your system from any remote location via a telephone line. For obvious security reasons the system cannot be disarmed using this method. To make use of this feature you will require a telephone and the phone controller.

#### *Operation*

##### **To Remotely Arm Your System**

1. Call the telephone number that your system is connected to.
2. When the control panel has answered the call, a short jingle will be heard. Wait for a short pause in the tones and then hold the phone controller to the mouth piece of the telephone and press the button on the side of the unit for 3 seconds to arm the system.

Two beeps will be heard to indicate that the tone generated has armed your system.

3. Hang up the telephone and the system will remain armed.

If you hear a number of strange sounding tones when your control panel answers the call, this means that your system has been set for remote programming functions. Simply wait for a pause in the tones and follow the above steps to remotely arm your system.

If the control panel does not answer the call, this means that the system may already be armed or remote functions have not been enabled. Refer to the "Installations Notes" to check if "Arm Only Via The Telephone" on page 65 has been enabled.

---

**Note: Where both remote arming and remote programming have been selected, the control panel will answer the call expecting the remote programming computer. This is easily noticed as the modem negotiating tones will be heard rather than the remote arming jingle.**

---

# Operating The System Using A Touch Tone Telephone

## Introduction

The DTMF Command Module will allow you to operate your control panel remotely via the telephone line. Once a communications link has been established with your alarm system, you will be able to perform any system functions using the codepad on a touch tone telephone for both Master Code and User Code functions.

The DTMF command module also allows domestic dialling to be acknowledged by pressing the # key on the telephone codepad. The DTMF command module needs be fitted to your system and programmed accordingly by your installer.

## Operation

### *To Establish A Communication Link With Your Alarm System (Non Partitioned System)*

1. Dial the telephone number that the panel is connected to. When the panel answers your call, you will hear a short jingle.
2. After the jingle, press the **O** button on your telephone during a pause. You will then hear a second jingle. You have now established a link.

---

**Note: If you have a partitioned system, pressing a **O** to establish a link will not work.**

---

### *To Establish A Communication Link With Your Alarm System (Partitioned System)*

1. Dial the telephone number that the panel is connected to. When the panel answers your call, you will hear a short jingle.
2. To establish a link, you will need to enter **1**, **2**, **3** or **4** corresponding to the area number you wish to establish a link with.

Once you establish a link to the partitioned panel, you cannot toggle from area to area like you can on a Master Partitioned codepad by pressing the # button on the telephone. To access another area, you will need to terminate the link, redial the panel and then choose the required area.

You can ARM and DISARM all areas at the same time when linked to a partitioned system provided that the user code is valid for all areas.

When connected to the panel, any normal system function can be performed by simply entering the numbers on the telephone as you would from a codepad. (HOLD DOWN functions however will not work). Please refer to the "Master Code Functions" on page 28 for a description of each of the available functions. Audible indications are also described in this section.

While you are connected, if a button is not pressed within a sixty second period, you will hear the jingle of decreasing pitch which will indicate that the link has been terminated.

### *To Terminate The Link With Your Alarm System*

1. Press the # button on the telephone twice to terminate the link. You will hear a short jingle of decreasing pitch to indicate termination of the link.

## *Domestic Tone Reporting*

### *Operation Of Domestic Tone Reporting*

When an alarm occurs, your system will commence dialling the first programmed phone number. If a busy or engaged tone is detected, the control panel will hang up and commence dialling the second phone number, if one is programmed. The first call will however be counted as one unsuccessful dialling attempt. The calling procedure can be aborted at any time by entering your code.

---

**Note:** A maximum of 6 calls per alarm event will be made. This count includes any unsuccessful calls. The call count will be reset if the zone re-triggers and a further 6 attempts will be made. The control panel will stop dialling after it has received an acknowledge tone or after it has made 6 attempts or 3 successful calls.

---

If busy tone is not detected, the control panel will assume that the phone has been answered and will begin sending its message.

The message consists of a siren tone followed by system identification beeps. The identification beeps will allow you to verify which control panel has made the call if more than one control panel is reporting to the same phone number. The identification beeps are programmable between 1 and 15, allowing you to distinguish between 15 separate control panels dialling the same phone number (eg. An office and a holiday house reporting to your home). This number needs to be programmed by your installer. Check your “Installation Notes” on page 62 to see what your systems identification number is.

When the call is answered, if the call is not acknowledged using a phone controller, or the \* button on your telephone<sup>†</sup>, then the control panel will continue sending its message for a period of two minutes, after which time it will hang up and commence dialling the next phone number.

If the call is acknowledged, the control panel will hang up and no further calls will be made for that event.

---

<sup>†</sup> The # button on your telephone will need to be used to acknowledge a call if a DTMF Command Module has been fitted to your system. Check your “Installation Notes” on page 62 to see if you have this option.



## Programming Domestic Phone Numbers

There are 32 data locations set aside for domestic phone numbers. Each location is capable of storing 1 telephone digit. This allows up to four different seven digit phone numbers to be programmed.

### To Program A Domestic Telephone Number

1. Ensure the system is disarmed.
2. Ensure that there are no alarm memories present (**ie.** Zone indicators flashing).
3. Enter your **[MASTER CODE]** followed by **2** and the **[AWAY]** button.  
Three beeps will be heard and the STAY and AWAY indicators will flash simultaneously. If one long beep is heard, entry has been denied and you should check your “Installation Notes” on page 62 to see if your control panel has been programmed for domestic reporting.

After successful entry, the codepad will begin to display any previously programmed telephone numbers one digit at a time via the zone indicators. The first number will be displayed for two seconds and a beep will be heard as the next number is displayed. You may watch as all stored numbers are displayed before programming new numbers, or start to program a new phone number by simply entering the first digit of the new number.

After all digits in the first phone number have been entered, press the **[STAY]** button. This indicates the end of the first phone number. You may now enter a second, third and fourth phone number if required by following the above procedure.

Phone numbers should be entered in order of priority (**ie.** The phone number that you want the control panel to call first should be entered first and so on).

---

**Note:** If there is more than one phone number programmed and you wish to change one of them, you will need to re-program all of the stored phone numbers as well as the new number.

---

When all required phone numbers have been programmed, exit the programming mode by pressing the **[AWAY]** button.

If at any time you wish to view the stored numbers enter the **[MASTER CODE]** followed by **2** and the **[AWAY]** button. Three beeps will be heard and the numbers will be displayed. When finished, the first digit of the first number will be displayed. If no buttons are pressed within 10 seconds the mode will terminate automatically or you can press the **[AWAY]** button to manually terminate.

---

**Note:** When viewing the numbers via the codepad, the number 9 is represented by the 1 and the 8 indicators illuminating together. A zero in the phone number is represented by the MAINS indicator. The end of the number is represented by the MAINS and zone 4 indicators. Refer to “Table 12: Indicators For Programming Domestic Phone Numbers” on page 31 for more information.

---

## Disabling Domestic Dialling

If at any time you wish to cancel domestic dialling for any reason (**eg.** You are moving house and do not wish the system to continue calling your work place or mobile phone etc) you can enter the **[MASTER CODE]** followed by **2** and then the **[AWAY]** button, then the **[STAY]** button and the **[AWAY]** button to disable domestic dialling.

## Domestic Voice Message Reporting

### Introduction

The Voice Module has been designed so that a clear concise voice message can be sent by your alarm system to the phone numbers of your choice when an alarm condition occurs. This allows you to easily understand that the alarm at your home or office has been activated and that action is required. The voice message is pre-recorded and can be changed as many times as necessary. The message can be from 1 to 16 seconds in length. You will need to discuss the recording of your message with your installer.

### Operation of Domestic Voice Message Reporting

Upon an alarm condition, the programmed voice message will play continually for a 90 second period. At the end of the 90 seconds the panel will send a series of short tones followed by a break. During this break the control panel looks for an acknowledge tone from a phone controller or from the \* button on your telephone‡.

If an acknowledge tone is received within the next 20 seconds, the control panel will hang up and make no further calls. If an acknowledge tone is not received, the control panel will continue with its particular dialling sequence. The 90 second timer commences as soon as the last digit of the phone number has been dialled.

---

**Note: If a DTMF Command Module has been fitted to the control panel, acknowledging the call can be done at any time whilst the message is being played by pressing the # button on the telephone. There is no need to wait for the message to stop playing.**

---

### Programming Domestic Phone Numbers

There are 32 data locations set aside for domestic phone numbers. Each location is capable of storing 1 telephone digit. This allows up to four different seven digit phone numbers to be programmed.

#### To Program A Domestic Telephone Number

1. Ensure the system is disarmed.
2. Ensure that there are no alarm memories present (ie. Zone indicators flashing).
3. Enter your [MASTER CODE] followed by **2** and the [AWAY] button.  
Three beeps will be heard and the STAY and AWAY indicators will flash simultaneously. If one long beep is heard, entry has been denied and you should check your "Installation Notes" on page 62 to see if your control panel has been programmed for domestic reporting.

After successful entry, the codepad will begin to display any previously programmed telephone numbers one digit at a time via the zone indicators. The first number will be displayed for two seconds and a beep will be heard as the next number is displayed. You may watch as all stored numbers are displayed before programming new numbers, or start to program a new phone number by simply entering the first digit of the new number.

---

‡ The # button on your telephone will only acknowledge a call if a DTMF command module CC886 is fitted to your system. Check your "Installation Notes" on page "62" to see if you have this option.

After all digits in the first phone number have been entered, press the **STAY** button. This indicates the end of the first phone number. You may now enter a second, third and fourth phone number if required by following the above procedure.

Phone numbers should be entered in order of priority (**ie.** The phone number that you want the control panel to call first should be entered first and so on).

---

**Note:** If there is more than one phone number programmed and you wish to change one of them, you will need to re-program all of the stored phone numbers as well as the new number.

---

When all required phone numbers have been programmed, exit the programming mode by pressing the **AWAY** button.

If at any time you wish to view the stored numbers enter the **MASTER CODE** followed by **2** and the **AWAY** button. Three beeps will be heard and the numbers will be displayed. When finished, the first digit of the first number will be displayed. If no buttons are pressed within 10 seconds the mode will terminate automatically or you can press the **AWAY** button to manually terminate.

---

**Note:** When viewing the numbers via the codepad, the number 9 is represented by the 1 and the 8 indicators illuminating together. A zero in the phone number is represented by the MAINS indicator. The end of the number is represented by the MAINS and zone 4 indicators. Refer to "Table 12: Indicators For Programming Domestic Phone Numbers" on page 31 for more information.

---

## *Pager Reporting*

Pager reporting has been introduced so that alarms and system information can be transferred to a pocket pager allowing you to receive information from your alarm system at any time.

There are two pager formats available, Basic Pager and Alpha Pager. Basic Pager Format requires some interpretation of the numbers that appear on the display. The Alpha Pager Format requires no interpretation as the information is supplied to the pager in text format. Refer to "Table 17: Alpha Pager Messages" on page 52 for more information.

Both formats make it possible to differentiate between 1000 different systems when a number of alarm systems are reporting to the one pager.

## *Alpha Pager Reporting*

Your control panel is capable of sending Alpha characters to a pocket pager using the PET Protocol (Page Entry Terminal). Using this method of reporting will allow individuals who are on the move to monitor burglary alarms, medical alarms, refrigeration alarms and virtually any other event which can be used to trigger an alarm situation.

### *Requirements*

To use this reporting format the following hardware options are required.

Telecom and Hutchinson only.

The control panel must have a modem module fitted.

## Using The PET Alpha Pocket Pager Format

This transmission format is the most informative method of reporting alarm activity to the end user. When using the PET Alpha Pager Format, the control panel will transmit all alarm information using English language messages. Once the alarm message has been received on the pager appropriate action can be taken.

The following table lists the events which will cause the control panel to transmit to the pager and the messages that will be displayed on the pager.

<i>EVENT AT PANEL</i>	<i>PAGER MESSAGE</i>
AC Fail	AC Fail
AC Restore	AC Restore
Area Has Been Armed	Close Area #, User #
Area Has Been Disarmed	Open Area #, User #
Burglary Zone Has Triggered	Alarm Zone #
Burglary Zone Has Restored	Restore Zone #
Burglary Zone Triggered, Area #	Alarm Zone #, Area #
Burglary Zone Restored, Area #	Restore Zone #, Area #
Console Tamper - Codepad Retries Exceeded	Codepad Tamper
Data Programming Change	Data Change
System is Armed	Close User #
System is Disarmed	Open User #
Codepad Duress	Duress, Open User #
Low Battery	Low Battery
Low Battery Restored	Battery Restore
Codepad Panic Alarm	Panic
Codepad Fire Alarm ( <b>Version 1.37 Onwards</b> )	Fire
Codepad Medical Alarm ( <b>Version 1.37 Onwards</b> )	Medical
Test Report	Test
Zone Automatically Isolated when Armed	Bypass Zone #
Disarming When Zones Have Been Isolated	Bypass Restore Zone #
Zone Unsealed at End of Exit Time	Trouble Zone #
Zone has Resealed After Exit Time	Trouble Restore Zone #
24 Hour Zone Triggered	24 Hour Alarm #
24 Hour Zone Restored	24 Hour Restore #
24 Hour Fire Zone Triggered	Fire Zone #
24 Hour Fire Zone Restored	Fire Restore #

*Table 17: Alpha Pager Messages*

The # symbol represents the zone or area number in the transmission.

The following example shows how a single transmission will be received on the Alpha pager. A similar message to the one below will be seen when the alarm system is armed by user 1.

<b>1111</b>	<b>CLOSE USER</b>	<b>01</b>
<i>SUBSCRIBER ID</i>	<i>SYSTEM ARMED</i>	<i>USER</i>

*Subscriber ID is a unique 4 digit number indicating the particular alarm system which has made the call. User Number indicates an authorised user of the system. Each person using the system may be given their own user identity.*

# Basic Pager Reporting

## Operation Of Basic Pager Reporting

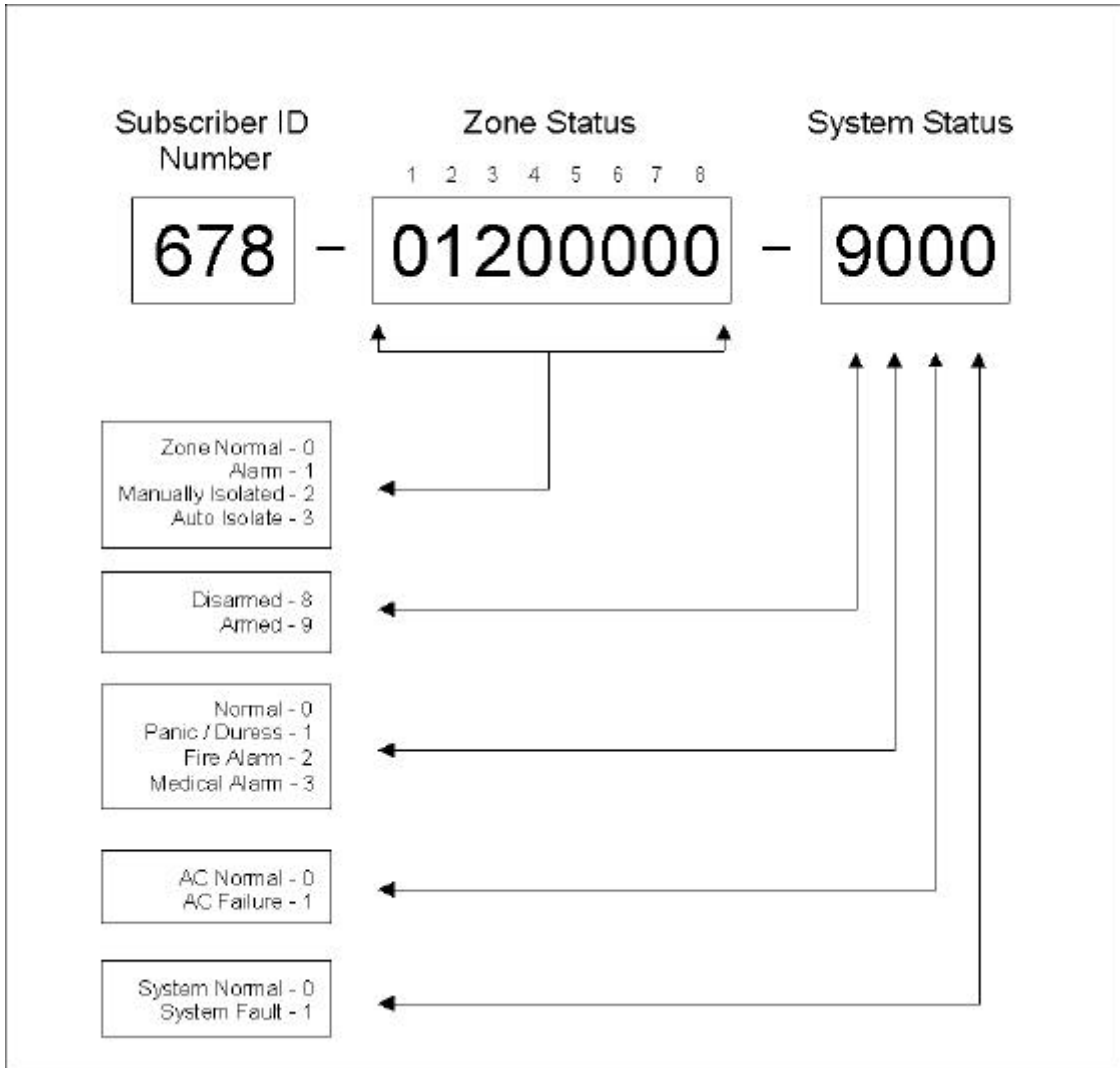


Figure 3: Basic Pager Display

The example shows that the transmission has come from Subscriber ID Number 678 and that zone 2 is in alarm, zone 3 has been manually isolated, the system is armed, the panic zone is normal, the AC is connected and there is no fault condition.

---

**Note:** Basic Pager format only supports zones 1 to 8. If you have a sixteen zone system then Alpha Pager is recommended.

---

## *Optional Equipment*

There are numerous accessories and features that can be added to your alarm system. Contact your installer for more details on any of the accessories listed below.

### *EDMSAT - Satellite Siren*

To enhance the security of your system a satellite siren is available. When tampered with or disconnected from your system it will still continue to emit its ear shattering warning sound.

### *Additional Codepads*

Numerous codepads can be fitted giving you the ability to control your system from not only the entry point but even from your bedroom or anywhere else that you may require.

### *Night Arm Station*

The night arm station is a touch pad which allows you to perform three basic functions. Firstly, it allows you to arm your alarm system in STAY mode 1 by pressing just one button. Secondly, it allows you to activate a panic alarm 24 hours a day should an emergency situation arise. Thirdly, it provides system status at all times via its indicator lights. Using a night arm station means that at the press of a button you can arm your entire alarm system except for the zones which are designated for STAY mode 1. The night arm station will allow the user to disarm the system from STAY mode 1, providing that no alarm has been triggered.

### *Radio Remote Control*

This equipment when fitted will enable you to control the general operation of your system from a portable hand held transmitter. It can even be used for basic arm/disarm where there is a requirement for a keyswitch.

### *Phone Controller*

The phone controller can be used for remote arming of your system. Where this feature is required the phone controller can be used to generate a specific tone that will arm your system via the telephone.

### *Hand Held Radio Remote Control Panic Button*

Any number of hand held panic buttons can be connected to your system. These are ideal for medical or emergency situations where help is required instantly. The benefits of these are only apparent if you have a communications dialler fitted and your system is monitored.

### *Smoke Detectors*

Any number of smoke detectors may be connected to your system for an early warning of a fire. A different sound is available for your outside horn speaker if a smoke detector is triggered. This different sound will alert your neighbours to a fire rather than a burglary.

### *Photoelectric Beams*

Photoelectric beams can be connected to your system to provide perimeter protection. These beams can be placed up to distances of 160 metres apart. Any movement across the beams (**ie.** a person or vehicle entering a driveway) will cause an alarm. These can be used in both indoor and outdoor applications.

### *Passive Infrared Detectors*

Passive infrared (PIR) detectors are the most common type of detection devices used. PIR's detect human body heat up to a distance of approximately 15 metres at an angle of coverage of approximately 90 degrees.

### *Magnetic Reed Switches*

Reed switches are used to monitor the opening and closing of doors and windows. These are ideal for perimeter protection when used in conjunction with STAY mode.

### *Glass Break Detectors*

Glass break detectors are used to pick up the sound of breaking glass. These are ideal for shop front windows.

### *Vibration Detectors*

Vibration detectors are designed to pick up the vibrations of a rattling door or window.

### *Communications Dialler*

A communications dialler can be fitted to your system to inform another party that an alarm has occurred. See "Communication Options" on page 45 for more details of what a dialler can do.

### *Telephone Line Fault Monitor*

A telephone line fault monitor is designed to connect your alarm system to two telephone lines. When line A is disconnected the unit will automatically switch to line B. For added security, line B could be connected to a stand-alone cellular unit.

### *Securitel*

A securitel unit can be fitted to your system to inform the central monitoring station that an alarm has occurred. A securitel unit has the added feature of detecting the existence of the telephone line. The central monitoring station will be alerted of a problem if the telephone line is disconnected from the alarm system.

### *Telephone Line Fault Module*

This module will monitor the telephone line connected to the system. If the phone line has been disconnected for more than forty seconds, the FAULT indicator will illuminate and the sirens and strobe may be enabled to activate.

# Glossary of Terms

<i>Term</i>	<i>Description</i>
<b>Alarm Condition</b>	Is when your alarm system is ARMED and one of the detection devices are violated. A 24 hour zone (eg. Smoke detector) may trigger when your system is ARMED or DISARMED.
<b>Armed</b>	When the system is in a state ready to accept alarms. (System “ON”)
<b>AWAY or #</b>	This is the button on your codepad used to execute any given command.
<b>AWAY Mode</b>	Is the mode used to arm your system when you leave your premises.
<b>Codepad</b>	The codepad allows you to perform all functions such as arming, disarming and programming of your alarm system.
<b>Detectors</b>	Are devices connected to your alarm system used to cause an alarm condition. Some common forms of detection devices are; passive infrared, smoke, photo electric beams, reed switches, vibration sensors.
<b>Dialler</b>	Is a device that can be added to your system used for communicating to a monitoring station or pager.
<b>Disarmed</b>	Is when your system is in a state that will not accept alarms.
<b>Dynamic Battery Testing</b>	Is a feature used to monitor and test the condition of your backup battery.
<b>EDMSAT (Satellite Siren)</b>	Is a self contained siren unit complete with flashing blue strobe light and a backup battery. It offers a higher level of security for your alarm system.
<b>Entry Time or Entry Delay</b>	Is the time allowed after entering your premises, to DISARM your system before an alarm occurs.
<b>Entry Warning</b>	Is the beeping from your codepad during entry time to remind you to DISARM your system.
<b>Exit Time or Exit Delay</b>	Is the amount of time you have to leave your premises after you have armed your system.
<b>External Equipment</b>	Is any device connected to your system such as detectors, codepads and sirens.



<i>Term</i>	<i>Description</i>
<b>Forced Arming</b>	Is a situation where your alarm system is permitted to be ARMED when one or more zones are unsealed.
<b>Hand Over Delay</b>	When your system is ARMED and zone one is violated the entry delay starts timing. If zone two is then violated the entry delay time is HANDED OVER to zone two and so on through zones three and four. This is known as SEQUENTIAL hand over delay.
<b>Hand Held Radio Remote Control</b>	Can be used to ARM and DISARM your system or cause a PANIC ALARM.
<b>Master Code</b>	Is a numerical code used for ARMING and DISARMING the system as well as allowing access to all functions that are programmable through the codepad.
<b>Monitoring Station</b>	Is a secure location where a digital receiver monitors numerous alarm systems and deciphers their alarm transmission reports so that the operator can advise the appropriate authorities to take immediate action.
<b>Panic</b>	This is a type of alarm raised by you to indicate to the MONITORING STATION that there is an emergency situation at your premises.
<b>Phone Controller</b>	Is a device used for ARMING your system via the Telephone line. It is also used to acknowledge domestic alarm reports.
<b>Sealed</b>	Refers to a zones status. If a zone is SEALED, the detection devices are not violated and the zone indicator will be extinguished (ie. a reed switch is closed or a detector is on stand by waiting for an intrusion).
<b>Silent Alarm</b>	When programming your system, it is possible to have an individual zone for SILENT ALARM. This means that when the zone is violated your alarm system will communicate with the Monitoring Station without sounding the sirens. This can only be programmed by your installer.

<i>Term</i>	<i>Description</i>
<b>Siren time</b>	Is a pre-programmed time which the sirens will sound for once an alarm condition has been generated.
<b>STAY Mode 1</b>	Is a condition that automatically isolates certain zones when your system is ARMED in STAY mode 1. This can only be programmed by your installer.
<b>STAY Mode 2</b>	Is a condition that automatically isolates certain zones when your system is ARMED in STAY mode 2. These zones are programmed by you and not your installer.
<b>Unsealed</b>	Refers to a zones status. If a zone is unsealed, the detection devices are violated and the zone indicator will be illuminated ( <b>ie.</b> a reed switch is open or a detector has noted an intrusion).
<b>User Code</b>	A numerical code used to arm and disarm the system.
<b>Zones</b>	A monitored input used to trigger an alarm condition.
<b>24 Hour Zone</b>	A monitored input where tamper switches and emergency switches may be connected. If at any time, (whether your system is ARMED or DISARMED) one of these switches is violated an ALARM CONDITION will be generated.

# Warranty

## Warranty Statement

Electronics Design and Manufacturing Pty Limited warrants this product to be free from defects in material and workmanship for a period of three years from the date of manufacture as indicated by the date stamp and /or the serial number on the product. Defective units returned by the purchaser at their own expense during this period will be repaired or replaced at the option of the manufacturer. The repair or replacement will be free of charge provided that the defects were not incurred during shipping or handling, or the damage was not due to causes beyond the control of Electronics Design and Manufacturing Pty Limited, excessive voltage, mechanical shock or damage arising out of abuse, alteration or improper application of the equipment.

## Limitations

While this system is an advanced design security system, it does not offer guaranteed protection against burglary, fire or any other emergency. An alarm system, whether commercial or residential, is subject to compromise or failure.

Despite frequent testing, and due to, but not limited to, any or all of the following; criminal tampering, electrical or communications disruption, it is possible for the system to fail to perform as expected. Electronics Design & Manufacturing Pty Limited does not represent that the product or system may not be compromised or circumvented; or that the product or system will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; nor that the product or system will in all cases provide adequate warning or protection. A properly installed and maintained alarm system may only reduce risk of burglary, robbery, fire or otherwise but it is not insurance or a guarantee that these events will not occur.

**CONSEQUENTLY, ELECTRONICS DESIGN & MANUFACTURING PTY LIMITED SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE, OR OTHER LOSS BASED ON A CLAIM THE PRODUCT FAILED TO GIVE WARNING.**

Electronics Design & Manufacturing Pty Limited is not an insurer of either the property or safety of the user's family or employees and limits its liability for any loss or damage including incidental or consequential damages to Electronics Design & Manufacturing Pty Limited's original selling price of the product regardless of the cause of such loss or damage.

## Maintenance

Electronics Design & Manufacturing Pty Limited recommend the system be checked on a weekly basis for correct operation. Reference should also be made to Australian Standard 2201.1 in that routine maintenance should be carried out every six months by a licensed alarm technician.

## Specifications

<b>Temperature Range:</b>	0 - 45 Degrees Celsius
<b>Humidity:</b>	10 % to 95 %
<b>Power Source:</b>	EDM Plug Pack TF008 240 Volt/18 Volt AC 1.3 Amp
<b>Stand-By Current:</b>	65 mA
<b>Back-Up battery:</b>	6.5 Ah 12 Volt DC Rechargeable Sealed Lead Acid.
<b>Weight:</b>	2.5 Kg
<b>Dimensions:</b>	306 mm x 260 mm x 75 mm
<b>Austel Approval Number:</b>	A94/02B/0476 (Must Be Used With EDM TF008 Plug Pack)
<b>New Zealand Telepermit:</b>	PTC 211/95/263

## Advice To Users

The Austel permit which has been issued for this product is subject to the following conditions.

- The *Solution- 16* Control Dialler may only be powered by an EDM Plug Pack TF008. (Approval number Q92128).

## New Zealand Telepermit Notes

The following notes are only relevant when this product is used in New Zealand

The equipment exhibits the following points of non compliance to Telecom PTC 211 and 212:

- The grant of a Telepermit for a device in no way indicates Telecom's acceptance of responsibility for the correct operation of that device under all operating conditions.
- The equipment shall not be used in any manner which 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 at 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 using a standard Telepermitted telephone and do not report a fault unless the telephone performance is impaired.

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## *Quality Policy*

AS 3901 Clause 4.1.1 Refer to Procedure No 1

The operations of Electronics Design & Manufacturing Pty Limited include design, development and manufacturing of electronic equipment.

Electronics Design & Manufacturing Pty Limited recognises that it is the responsibility of suppliers and contractors to meet their contractual obligations and carry out works which comply fully with the relevant specifications, drawings and contract documents.

It further recognises that the diligent operation of a Quality Management System leads to efficient and effective execution of the works with a minimum of errors and rework.

Electronics Design & Manufacturing Pty Limited and its Employees are committed to the implementation of this Quality Management System in accordance with Australian standard AS3901-1987, European standard ISO9001-1987 and New Zealand standard NZS9001-1990 implementing quality systems for design, development and production to the mutual benefit of the customers and Electronics Design & Manufacturing Pty Limited.

***Meinrad Formosa***

Managing Director

# Installation Notes

Installation Company \_\_\_\_\_

Technician \_\_\_\_\_

Phone Number \_\_\_\_\_

Installation Date \_\_\_\_\_

Warranty Expires \_\_\_\_\_

## Zone Descriptions

	Stay Mode	Day Alarm
Zone 1 _____	<input type="checkbox"/>	<input type="checkbox"/>
Zone 2 _____	<input type="checkbox"/>	<input type="checkbox"/>
Zone 3 _____	<input type="checkbox"/>	<input type="checkbox"/>
Zone 4 _____	<input type="checkbox"/>	<input type="checkbox"/>
Zone 5 _____	<input type="checkbox"/>	<input type="checkbox"/>
Zone 6 _____	<input type="checkbox"/>	<input type="checkbox"/>
Zone 7 _____	<input type="checkbox"/>	<input type="checkbox"/>
Zone 8 _____	<input type="checkbox"/>	<input type="checkbox"/>

	<b>STAY Mode</b>
Zone 9 _____	<input type="checkbox"/>
Zone 10 _____	<input type="checkbox"/>
Zone 11 _____	<input type="checkbox"/>
Zone 12 _____	<input type="checkbox"/>
Zone 13 _____	<input type="checkbox"/>
Zone 14 _____	<input type="checkbox"/>
Zone 15 _____	<input type="checkbox"/>
Zone 16 _____	<input type="checkbox"/>

### Entry and Exit Times

Entry Delay Time 1 For AWAY Mode	<input type="checkbox"/> Seconds
Entry Delay Time 2 For AWAY Mode	<input type="checkbox"/> Seconds
Entry Delay Time 3 For AWAY Mode	<input type="checkbox"/> Seconds
Entry Delay Time 4 For AWAY Mode	<input type="checkbox"/> Seconds
Entry Delay Time For STAY Mode 1	<input type="checkbox"/> Seconds
Entry Delay Time For STAY Mode 2	<input type="checkbox"/> Seconds
Exit Delay Time	<input type="checkbox"/> Seconds





**User Code Options**Code Retry Count  AttemptsCodepad Lockout Time  Minutes**Arming Options**

Auto Arming Time (STAY / AWAY) \_\_\_\_\_ AM / PM

Auto Arm Warning Time  Minutes

Auto Disarm Time \_\_\_\_\_ AM / PM

Forced Arming  YES  NOQuick Arm (Hold Down)  YES  NOQuick Disarm From Stay Mode 1  YES  NOArm Only Via The Telephone  YES  NO**Output Options**

Auto Operate Time \_\_\_\_\_ AM / PM

Operate Warning Time  Minutes

Output Number 1 \_\_\_\_\_

Output Number 2 \_\_\_\_\_

Output Number 3 \_\_\_\_\_

Output Number 4 \_\_\_\_\_

Output Number 5 (Auto Output) \_\_\_\_\_

**Isolating Options**

Code Only To Isolate

 YES  NO

Standard Isolate

 YES  NO**Communication Options**

Domestic Tone Only

Domestic Tone Only ID Number

 Beeps

Domestic Voice

Basic Pager

Alpha Pager

Back To Base

Subscriber ID Number

DTMF Command Module Fitted

 YES  NO

Remote Arming Enabled

 YES  NO**Others**

Siren Run Time

 Minutes

Sensor Watch Time

 Days

Can Your System Be Serviced By Another Technician

 YES  NO

If Yes, Installers Code







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**Electronics Design & Manufacturing Pty Limited**

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