



# Control Panel

ICP-SOL2-P/ICP-SOL3-P



**BOSCH**

**en** User's Guide



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# 1

## Introduction

Congratulations on selecting the ICP-SOL2-P/ICP-SOL3-P Control Panel to protect you and your property. To obtain the most from your unit, take time to read through this manual and familiarize yourself with the numerous outstanding operating features of this system. In all aspects of planning, engineering, styling, operation, convenience, and adaptability, we have sought to anticipate your every possible requirement.

Programming simplicity and speed were some of the major considerations and we believe that our objectives in this area were more than satisfied.

This manual explains 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.

## 2 Specifications

|   |   |
|---|---|
| <b>Temperature Range</b>                            | 0°C to +50°C                                      |
| <b>Humidity</b>                                     | 20% to 90%  |
| <b>Power Source</b>                                 | TF008 Plug Pack – 240 V/18 VAC @ 1.3A             |
| <b>Stand-By Current</b>                             | 65 mA   |
| <b>Current Draw in Alarm Condition</b>              | 115 mA  |
| <b>Current Draw in Alarm Condition with Codepad</b> | 105 mA  |
| <b>Back-Up Battery</b>                              | 7 Ah/12 VDC Rechargeable Sealed Lead Acid Battery |
| <b>Dimensions (Case, packed in carton)</b>          | 306 mm x 262 mm x84 mm                            |
| <b>Weight</b>                                       | 2.5 kg  |
| <b>Supplier Code</b>                                | N771  |

**Table 2.1: Specifications**

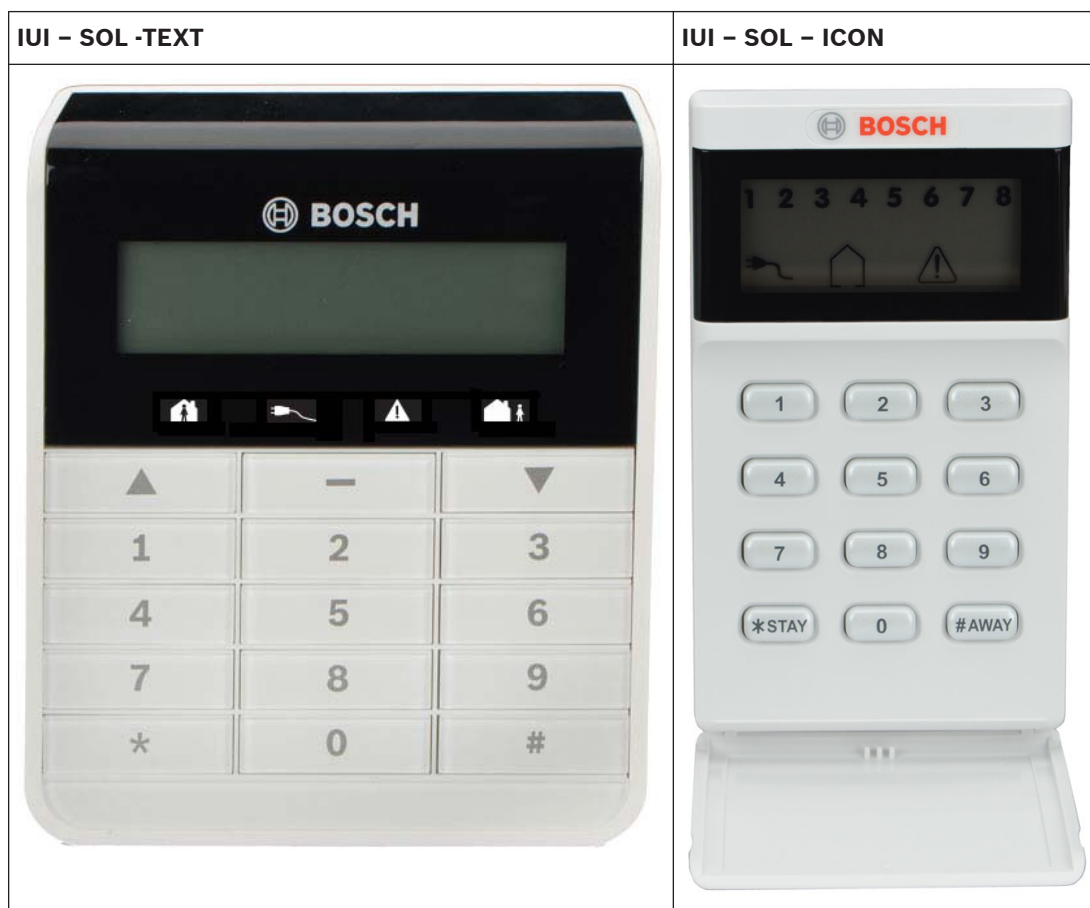


### **Notice!**

Test the sirens, strobe, and zones at weekly intervals.

## 3 Codepad Introduction








### 3.1 Codepad



### 3.2 Quick Codepad Operation Instructions

### 3.3 Codepad Indicators

| Codepad indicator icons  | Status                                   | Definition  |
|--|--|---|
| <b>1 2 3 ....</b><br>ZONE 1 – 8 for ICP-SOL2-P<br>ZONE 1 – 16 for ICP-SOL3-P | On                                       | Zone is unsealed.                                     |
|  | Off                                      | Zone is sealed.                                       |
|  | Flashing Fast (0.25 sec on/0.25 sec off) | Zone is in alarm condition.                           |
|  | Flashing Slow (1 sec on/1 sec off)       | Zone is manually isolated or selected to be isolated. |
| <br><b>AWAY</b>  | On                                       | System is armed in AWAY Mode.                         |
|  | Off                                      | System is not armed in AWAY Mode.                     |
|  | Flashing twice a sec with STAY indicator | Setting STAY Mode 2 zones.                            |

| Codepad indicator icons  | Status                                   | Definition   |
|--|--|--|
| <br><b>STAY</b>               | On                                       | System is armed in STAY Mode 1 or STAY Mode 2.   |
|  | Off                                      | System is not armed in STAY Mode 1 or STAY Mode 2.   |
|  | Flashing twice a sec                     | Zone isolating mode  |
|  | Flashing twice a sec with AWAY indicator | Setting STAY Mode 2 zones.   |
|  | Flashing once every 3 sec                | Day alarm status – day alarm turned on.  |
|                               | On                                       | System is disarmed.  |
| <br><b>MAINS</b>              | On                                       | AC MAINS power normal.   |
|  | Flashing                                 | AC MAINS supply has failed.  |
| <br><b>FAULTS</b>            | On                                       | There is a system fault that needs to be rectified.  |
|  | Off                                      | The system is normal, there are no faults.   |
|  | Flashing                                 | There is a system fault that needs to be acknowledged.   |
| <br><b>Programming Mode</b> | Flashing                                 | These two indicators flash when you enter Installer's Programming Mode or use any Master Code function.  |
|                             |  | The OFF indicator lights when the system is disarmed and flashes when a zone becomes unsealed when disarmed. The indicator stops flashing when all zones are sealed. |
|                             |  | The ON indicator lights when the system is armed and flashes when an alarm occurs. The indicator is reset after a valid User Code is entered.                        |



## 3.4 Audible Indications

Below table defines the audible indicators given out by the codepad buzzer.

| Audible Indicator        | Definition   |
|--------------------------|--|
| One short beep           | A button/key was pressed on the codepad, or Exit Time ended when armed in STAY Mode 1 or STAY Mode 2.  |
| Two short beeps          | The system accepted your code.   |
| Three short beeps        | The requested function was executed.   |
| One long beep            | Indicates the last 10 seconds of Exit Time when armed in AWAY Mode, or the requested operation was denied or aborted.<br>Indicates codepad panic/fire/medical alarm operation. |
| One beep every sec       | Walk Test Mode is currently active.  |
| One short beep every min | There is a system fault waiting to be acknowledged.  |
| One beep every 4 sec.    | During Auto Arming Pre-Alert Time, the warning before automatic arming takes place.  |
| One beep every 2 sec.    | During Exit Time when armed in AWAY Mode.  |

**Table 3.1: Audible Indicators**

## 4 Operation with TEXT LCD Codepad

### 4.1 Text Menu

|           |                     |
|-----------|---------------------|
| Main Menu | [ A U I ] 1 Command |
|           | [ U I ] 2 Access    |
|           | [ U I ] 3 System    |
|           | [ U I ] 4 Zone      |
|           | [ I ] 5 Area        |
|           | [ I ] 6 Output      |
|           | [ I ] 7 Comm        |
|           | [ I ] 8 Parameter   |

**Table 4.1: Menu Structure**

Text A or U or I in brackets [ ] instruct you the text menu that displays on the codepad for different code holders:

[ A ] = All can access, no code required. To enter the text menu, simply press [ - ], only [1 Command] displays.

[ U ] = User code holder with authority levels can access. Enter the User Code, followed by [ - ] to enter the menu.

[ I ] = Installer code holder can access. Enter the Installer Code, followed by [ # ] or [ - ] to enter the menu, all menu items display.

#### 4.1.1 Command Menu

|                     |                      |   |
|---------------------|----------------------|---|
| [ A U I ] 1 Command | [ U ] 11 Arm         | [ U ] 111 AWAY Arm<br>[ U ] 112 STAY 1 Arm<br>[ U ] 113 STAY 2 Arm<br>[ U ] 114 AWAY Arm All  |
|                     | [ A U I ] 12 Inquire | [ A U I ] 121 Fault Analysis<br>[ U I ] 122 Event Recall  |
|                     | [ A U I ] 13 System  | [ U ] 131 Set Date & Time<br>[ A U I ] 132 Day Alarm<br>[ U I ] 133 Arm/Disa Seq.<br>[ I ] 134 Report Monitor<br>[ A U I ] 135 ModemCall Init<br>[ U I ] 136 Domestic Phone<br>[ U I ] 137 VersionDisplay<br>[ I ] 138 FactoryDefault<br>[ U ] 139 System Reset |
|                     | [ I ] 14 RF Diagnose | [ I ] 141 RF Zone<br>[ I ] 142 RF Keyfob<br>[ I ] 143 RF Repeater   |

|  |                        |  |
|--|------------------------|--|
|  | [ A U I ] 15 Test      | [ A U I ] 151 Horn Speaker<br>[ A U I ] 152 Bell Test<br>[ A U I ] 153 Strobe Test<br>[ U I ] 154 Walk Test<br>[ A U I ] 155 Test Report |
|  | [ U ] 16 Zone Bypass   |  |
|  | [ U ] 17 Output On/Off |  |

Table 4.2: Command Menu

## 4.1.2

## Access Menu

|                  |                          |  |
|------------------|--------------------------|--|
| [ U I ] 2 Access | [ I ] 21 Installer Code  |  |
|                  | [ U ] 22 User Code       |  |
|                  | [ I ] 23 Access Retry    |  |
|                  | [ U I ] 24 User Property | [ U ] 241 User Name<br>[ I ] 242 User Allocate<br>[ I ] 243 User Authority |

Table 4.3: Access Menu

## 4.1.3

## System Menu

|                  |                     |   |
|------------------|---------------------|---|
| [ U I ] 3 System | [ I ] 31 Timer      | [ I ] 311 Entry Time1<br>[ I ] 312 Entry Time2<br>[ I ] 313 Exit Time<br>[ I ] 314 Entry Guard Time For STAY Mode<br>[ I ] 315 Sensor Watch Time<br>[ I ] 316 Codepad Lockout Time<br>[ I ] 317 Auto Arm Pre-AlertTime<br>[ I ] 318 Auto Arm Time<br>[ I ] 319 Auto Disarm Time |
|                  | [ I ] 32 Codepad    | [ I ] 321 Silent Codepad Panic Alarm<br>[ I ] 322 Silent Codepad Fire Alarm<br>[ I ] 323 Silent Codepad Medical Alarm<br>[ I ] 324 Codepad Access Denied Silent<br>[ I ] 325 Codepad Fault Beep Enable<br>[ I ] 326 Codepad Display Off after 60s                               |
|                  | [ I ] 33 Arm/Disarm | [ I ] 331 Auto Arm In STAY1<br>[ I ] 332 Single Btn Arm Enable<br>[ I ] 333 Single Btn Disarm Enable<br>[ I ] 334 Disarmed On Power Up<br>[ I ] 335 Arm/Disarm Track On Power Up<br>[ I ] 336 Phone Remote Arm<br>[ I ] 337 Answer Machine Bypass On Arm                        |

|  |                          |   |
|--|--------------------------|---|
|  | [ I ] 34 Fault           | [ I ] 341 Ignore AC Fail<br>[ I ] 342 AC Fail Report Wait Time<br>[ I ] 343 Horn Speaker Fault Monitor<br>[ I ] 344 Phone Line Fault Indicator<br>[ I ] 345 Phone Line Fault Alarm on Armed<br>[ I ] 346 Phone Line Fault Alarm on Disarm<br>[ I ] 347 Lockout Phone Line Fail Alarm                            |
|  | [ U I ] 35 Wireless      | [ I ] 351 RF Receiver<br>[ I ] 352 Zone RFID And Input Option<br>[ U I ] 353 Keyfob RFID<br>[ I ] 354 Repeater RFID<br>[ I ] 355 RF Supervision Time<br>[ I ] 356 RF Jam Sensitivity<br>[ I ] 357 RF RECE Jam/Tamper Siren Alarm<br>[ I ] 358 RFKF Btn4 Arm In STAY1<br>[ I ] 359 RF Arm/Disarm Strobe Indicate |
|  | [ U I ] 36 System Option | [ U I ] 361 Home Message<br>[ I ] 362 Button Factory Default Enable<br>[ I ] 363 Alarm Memory Reset On Disarm<br>[ I ] 364 STAY Indicator For Day Alarm<br>[ I ] 365 Digit 3 For Codepad Duress Alarm<br>[ I ] 366 Siren & Strobe Output In STAY<br>[ I ] 367 Speaker Beep Volume                               |

Table 4.4: System Menu

#### 4.1.4

#### Zone Menu

|                |                         |  |
|----------------|-------------------------|--|
| [ U I ] 4 Zone | [ I ] 41 Zone Config    |  |
|                | [ I ] 42 Zone Allocate  |  |
|                | [ U I ] 43 Zone Name    |  |
|                | [ I ] 44 Day Alarm Zone |  |
|                | [ U I ] 45 STAY2 Zone   |  |
|                | [ I ] 46 EOL Resistor   |  |
|                | [ I ] 47 Zone State Rpt |  |
|                | [ I ] 48 Swing Shutdown | [ I ] 481 Siren Swing Shutdown Count<br>[ I ] 482 Dialer Swing Shutdown Count  |
|                | [ I ] 49 Zone Option    | [ I ] 491 Silent Zone Tamper Alarm<br>[ I ] 492 Unseal Zone That Fail Monitor<br>[ I ] 493 Bosch Smart Lockout Enable<br>[ I ] 494 Zone Pulse Cnt Handover Enable<br>[ I ] 495 Handover Delay In Order |

Table 4.5: Zone Menu

### 4.1.5 Area Menu

|              |                       |  |
|--------------|-----------------------|--|
| [ I ] 5 Area | [ I ] 51 Codepad Area |  |
|              | [ I ] 52 Area Option  | [ I ] 521 Arm/Disarm All Areas Once<br>[ I ] 522 Reset Siren From Any Area |

Table 4.6: Area Menu

### 4.1.6 Output Menu

|                |                         |   |
|----------------|-------------------------|---|
| [ I ] 6 Output | [ I ] 61 Onboard Output |   |
|                | [ I ] 62 Codepad Output |   |
|                | [ I ] 63 Extend Output  |   |
|                | [ I ] 64 Siren Config   | [ I ] 641 Siren Run Time<br>[ I ] 642 Siren Run Rate<br>[ I ] 643 Siren Sound On RF Receiver Fail |

Table 4.7: Output Menu

### 4.1.7 Communication Menu

|              |                          |   |
|--------------|--------------------------|---|
| [ I ] 7 Comm | [ I ] 71 Receiver Config |   |
|              | [ I ] 72 Network Config  | [ I ] 721 Network Module<br>[ I ] 722 A-Link/RSC PSWD<br>[ I ] 723 IP Destination<br>[ I ] 724 CSVIP User Name And Password   |
|              | [ I ] 73 Report Config   | [ I ] 731 STAY Mode Arm/Disa Report Enable<br>[ I ] 732 Arm/Disa Report Only If Alarmed<br>[ I ] 733 First Disarm/Last Arm Report<br>[ I ] 734 Arm/Disarm Report Option<br>[ I ] 735 Codepad Report Option<br>[ I ] 736 Test Report Time And Interval<br>[ I ] 737 Test Report Only When Armed<br>[ I ] 738 Test Report On Siren Reset<br>[ I ] 739 Test Report Dialer Option |

|  |                       |  |
|--|-----------------------|--|
|  | [ I ] 74 Comm Option1 | [ I ] 741 Ring Count<br>[ I ] 742 Dialer Report Function Enable<br>[ I ] 743 Exit A-Link Connection On Alarm<br>[ I ] 744 System Status Report Option<br>[ I ] 745 Use Bell-103 For FSK Format<br>[ I ] 746 DTMT Dial Pulse To 1 Digit/Sec<br>[ I ] 747 Receiver1/2 Dialing Format<br>[ I ] 748 Set Up Domestic Dialing Format                   |
|  | [ I ] 75 Comm Option2 | [ I ] 751 Telco Arming Sequence<br>[ I ] 752 Telco Disarming Sequence<br>[ I ] 753 Delay Alarm Report Time<br>[ I ] 754 Kiss-Off Wait Time<br>[ I ] 755 Delay Siren Until Transmit Over<br>[ I ] 756 Extend Wait For Handshake<br>[ I ] 757 Upload/Download Enable<br>[ I ] 758 Callback Phone Number Request<br>[ I ] 759 Callback Phone Number |

Table 4.8: Comm Menu

### 4.1.8

### Parameter Menu

|                   |                         |   |
|-------------------|-------------------------|---|
| [ I ] 8 Parameter | [ I ] 81 Addr Program   |   |
|                   | [ I ] 82 Addr Auto Step |   |
|                   | [ I ] 83 Adapter        | [ I ] 831 Test Adapter<br>[ I ] 832 Read Adapter<br>[ I ] 833 Write Adapter |

Table 4.9: Parameter Menu

## 5 Operation with ICON LCD Codepad

### 5.1 Arming the System

There are several ways to arm the system depending on whether you are:

- Leaving the premises and require all active zones to be in a ready state for an intruder.
- Remaining in the premises and only require part of the system to be in a ready state for and intruder.

If a zone is not sealed at the end of Exit Time, the zone is automatically isolated and constantly displayed on the remote codepad. The zone becomes an active part of the system when the zone is restored.

For example, if a window is left open after Exit Time expired, the window is not an active part of the system until the window is closed. Opening the window after Exit Time expired causes an alarm condition.

Below table defines the different methods for arming the system.

| Mode        | Arming Method   |
|-------------|---|
| AWAY Mode   | Arms the entire system. Refer to <i>Arming in AWAY Mode</i> , page 15.  |
| STAY Mode 1 | Arms all zones except those programmed to be automatically isolated by the installer. Refer to <i>Arming in STAY Mode 1</i> , page 16.          |
| STAY Mode 2 | Arms all zones except those programmed to be automatically isolated by the Master Code holder. Refer to <i>Arming in STAY Mode 2</i> , page 16. |

**Table 5.1: Arming Methods**

#### 5.1.1 Forced Arming

The feature of arming the system when a zone is not sealed is known as forced arming. If the system does not arm 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 can arm the system.

Refer to *Isolating Zones*, page 19.

#### 5.1.2 Arming in AWAY Mode

When you leave your premises and require all zones to be in a ready state to detect intrusion, arm the system in AWAY Mode.

There are two different methods for arming the system in AWAY Mode. Method one is standard and always operates. Method two is optional and can be disabled by your installer if you do not want to use single button arming.

|            |  |
|------------|--|
| Method One | Enter your user code followed by the [#] button (for example, [2580#]).<br>Two beeps sound and the AWAY indicator displays. Exit Time starts counting. |
| Method Two | Hold down the [#] button until two beeps sound.<br>The AWAY indicator displays and Exit Time starts counting.  |

**Table 5.2: How to Arm the System in AWAY Mode**

### 5.1.3

#### Arming in STAY Mode 1

STAY Mode 1 is only used when the perimeter and unused areas of the premises need to be armed to detect an intruder from entering the premises. At the same time, you can move freely within an area that is automatically isolated.

Only your security company can program zones automatically isolated in STAY Mode 1.

There are two different methods for arming the system in STAY Mode 1. Method one is standard and always operates. Method two is optional and may be disabled by your installer if you do not want to use single button arming.

#### Entry Guard Timer for STAY Mode 1

When arming the system in STAY Mode 1, an optional entry timer called Entry Guard Time for STAY Mode is available. Use this entry timer to delay the sirens if a zone is not automatically isolated and activated an alarm condition.

Entry Guard Time For STAY Mode is the delay time used for all zones except 24-hour zones when the system is armed in STAY Mode 1 or STAY Mode 2.

If the Entry Guard Time for STAY Mode is programmed and a zone was not automatically isolated is activated, the codepad beeps twice a sec until the entry timer expires or the system is disarmed. If the alarm condition is not reset by entering your user code followed by the [#] button (such as, [2580#]) before the entry time expires, the sirens activate into alarm. Only your installer can program this feature.

|            |  |
|------------|--|
| Method One | Enter your user code followed by the [*] button (for example, [2580*]). Two beeps sound and the STAY indicator displays. Exit Time starts counting.<br>Any zones programmed to be automatically isolated in STAY Mode 1 flash until Exit Time expires. At the end of Exit Time, all zones selected to be automatically isolated turn off and the codepad gives one short beep. |
| Method Two | Hold down the [*] button until two beeps sound.<br>The STAY indicator displays and Exit Time starts counting.<br>Any zones programmed to be automatically isolated in STAY Mode 1 flash until Exit Time expires. At the end of Exit Time, the zone indicators turn off and the codepad gives one short beep.   |

**Table 5.3: How to Arm the System in STAY Mode 1**

### 5.1.4

#### Arming in STAY Mode 2

STAY Mode 2 is only used when the perimeter and unused areas of the premise need to be armed to detect an intruder from entering the premise. At the same time, allowing you to move freely within an area that is automatically isolated. Any Master Code or Installer Code user can program zones to be automatically isolated in STAY Mode 2.

#### Entry Guard Timer for STAY Mode 2

When arming the system in STAY Mode 2, an optional entry timer called Entry Guard Time for STAY Mode is available. Use this entry timer to delay the sirens if a zone is not automatically isolated and activated into alarm condition.

#### How to Arm the System in STAY Mode 2

Hold down the [0] button until two beeps sound. The STAY indicator displays and Exit Time starts counting.

Any zones programmed to be automatically isolated in STAY Mode 2 flash until Exit Time expires. At the end of Exit Time, all zones selected to be automatically isolated extinguish and the codepad emits one short beep.



### 5.1.5 Programming STAY Mode 2 Zones

Programming zones to be automatically isolated in STAY Mode 2 are only carried out if you have a Master Code or Installer Code.

#### How to Program STAY Mode 2 Zones

1. Enter your Master Code or Installer Code, followed by [4] and the [#] button (for example, followed [25804#]). Three beeps sound and the STAY indicator flashes.
2. Enter the zone number to be automatically isolated, followed by the [\*] button (for example, [1\*] = Zone 1, [2\*] = Zone 2). The selected zone flashes. If you make a mistake, enter the same zone number followed by the [#] button to clear the incorrect zone. To select additional zones to be automatically isolated in STAY Mode 2, repeat *Step 2* as many times as required.
3. Press the [#] button to exit this mode when you finish selecting all zones to be automatically isolated in STAY Mode 2. Two beeps sound and the STAY and AWAY indicators turn off.

## 5.2 Disarming the System

When you enter the premises after the system is armed in AWAY mode, or if you armed the system in STAY Mode 1 or STAY Mode 2, you must disarm the system to disable detection devices that activate an alarm.

If there was an alarm condition prior to disarming the system, a flashing zone indicator displays, indicating a previous alarm on that zone.

#### How to Disarm the System

Enter your user code followed by the [#] button (for example, [2580#]). Two beeps sound.

## 5.3 User Codes

### 5.3.1 Adding User/Radio Codes

Only the Master Code holder can add or change other system user codes, including the Master Code. Up to 32 user codes / radio user codes can be programmed to operate the system.

#### How to Add a User Code

1. Enter your Master Code, followed by [1] and the [#] button (for example, [25801#]). Three beeps are heard and the STAY and AWAY indicators flash.
2. Enter the User Code number (1 to 32), followed by the [#] button (for example, [2#] = User 2, [8#] = User 8). Two beeps are heard and the selected user number displays on the codepad indicators.
3. Enter the digits required for the new code followed by the [#] button (for example, for User Code 5768, enter [5768#]). Two beeps are heard and the STAY and AWAY indicators turn off.

To add or change other User Codes, repeat this procedure as many times as required.

#### How to Add a WE800EV2 Keyfob

Set RF receiver as WE800EV2 Receiver.

1. Enter your Master Code, followed by [1] and the [#] button (for example, [25801#]).
2. Enter the WE800EV2 keyfob number (301 to 321) you want to add, followed by the [#] button. Only current keyfob number (1 to 16 ) displays on the ICON codepad.
3. Only use auto-learn mode to configure keyfob RFID. Press [#] button to switch into auto-learn mode. When icon numbers (1 to 16) flash, press button 1 or 2 of the keyfob. The panel learns the WE800EV2 Keyfob ID number and the last digit of RFID number displays on the codepad. Press [#] button to confirm.
4. Enter [#] button to confirm the operation, or press [\*] to cancel.

**How to Add a RADION Keyfob**

Set RF receiver as RADION Receiver.

1. Enter your Master Code, followed by [1] and the [#] button (for example, [25801#]).
2. Enter the RADION keyfob number (301 to 332) you want to add, followed by the [#] button. Only current keyfob number (1 to 16 ) displays on the ICON codepad.
3. Use manual mode or auto-learn mode to configure RADION keyfob RFID.
  - In manual mode, enter the 9-digit RF device ID number, followed by the [#] button.
  - Or press [#] button to switch into auto-learn mode. When icon numbers (1 to 16) flash, press button 1 or 2 of the keyfob. The panel learns the RADION Keyfob ID number and the last digit of RFID number displays on the codepad. Press [#] button to confirm.
4. Enter [#] button to confirm the operation, or press [\*] to cancel.

**5.3.2****Deleting User/Radio Codes**

Only the Master Code holder can delete other system user codes.

**How to Delete a User Code**

1. Enter your Master Code, followed by [1] and the [#] button (for example, [25801#]). Three beeps sound and the STAY and AWAY indicators flash.
2. Enter the user code number (1 to 32), followed by the [#] button (for example, [2#] = User 2, [16#] = User 16). Two beeps sound and the selected user number displays on the codepad indicators.
3. Press the [\*] button to delete the selected User Code. Two beeps are heard and the STAY and AWAY indicators turn off.

To delete other User Codes, repeat this procedure as many times as required.

**How to Delete a WE800EV2 Keyfob**

1. Enter your Master Code, followed by [1] and the [#] button.
2. Enter the WE800EV2 keyfob number (301 to 321) you want to delete, followed by the [#] button.
3. Press the [\*] button to delete the WE800EV2 Keyfob.

**How to Delete a RADION Keyfob**

1. Enter your Master Code, followed by [1] and the [#] button.
2. Enter the RADION keyfob number (301 to 332) you want to delete, followed by the [#] button.
3. Press the [\*] button to delete the RADION Keyfob.

**5.4****Codepad Alarms****5.4.1****Codepad Duress Alarm**

A codepad duress alarm is used as a silent hold-up alarm. This only occurs when the number 9 is added to the end of any valid user code being used to disarm the system (for example, [25809#]). A duress alarm is only useful if your system is reporting back to a monitoring station. Domestic reporting (such as a mobile phone) cannot decipher which type of alarm occurred.

**5.4.2****Codepad Panic Alarm**

An audible alarm activates when you press the [1] and [3] keys or the [\*] and [#] keys simultaneously.

Contact your installer to disable the codepad panic alarm function or to silence the codepad panic alarm.

### 5.4.3 Codepad Fire Alarm

The horn speaker emits a distinct fire sound when you press the [4] and [6] keys simultaneously.

Contact your installer to disable the codepad fire alarm function or to silence the codepad fire alarm.

### 5.4.4 Codepad Medical Alarm

An audible codepad Medical Alarm activates when you press [7] and [9] simultaneously.

Contact your installer to disable the codepad medical alarm function or to silence the codepad medical alarm.

### 5.4.5 Codepad PIN Error (Access Denied)

Codepad PIN error restricts the number of times an invalid user code can be used in an attempt to operate the system. When the number of incorrect code attempts equals the number programmed by your installer, the system activates an alarm condition. If reporting back to a security monitoring station, the system sends an Access Denied report.

To shutdown and lockout a codepad for a period of time (0 sec to 150 sec), ask your installer to program this function.

## 5.5 Isolating Zones

Use isolating zones to manually disable one or more zones before arming the system. Once a zone is isolated, you can access that zone during the armed state without activating an alarm. For example, you need to isolate a zone because before arming the system a PIR detector may be false alarming, or you need to leave a pet inside a particular zone while away. Isolating zones is performed by one of two methods. Method two is optional and only allows those user codes programmed by your installer to have access to isolate zones.

### 5.5.1 Standard Isolating

Standard isolating allows all operators to isolate zones without knowing a valid user code.

#### How to Isolate a Zone

1. Press the [\*] button twice to enter the Isolating Mode. Three beeps are heard and the STAY indicator flashes.
2. Enter the zone number (1 to 8), followed by the [\*] button (for example, [1\*] = Zone 1, [2\*] = Zone 2). Each zone to be isolated has a corresponding zone indicator that flashes. If you selected an incorrect zone to be isolated, enter the incorrect zone number again followed by the [\*] button. Repeat *Step 2* if more than one zone is to be isolated until all zones to be isolated are selected.
3. Press the [#] button after all selected zones are isolated. Two beeps are heard and the system returns to the disarmed state.

### 5.5.2 Code to Isolate

This method restricts only those User Codes with the Code to Isolate priority level to isolate zones.

If any User Code has this priority level, the method of standard isolating does not function.

#### How to Isolate a Zone

1. Press the [\*] button followed by your User Code and the [\*] button again to enter the Isolating Mode (for example, [\*2580\*]). Three beeps sound and the STAY indicator flashes.

2. Enter the zone number (1 to 8), followed by the [\*] button (for example, [1\*] = Zone 1, [2\*]= Zone 2). Each zone to be isolated has a corresponding zone indicator that flashes. If you selected an incorrect zone to be isolated, enter the incorrect zone number again followed by the[\*] button. Repeat *Step 2* if more than one zone is to be isolated until all zones to be isolated are selected.
3. Press the [#] button after all selected zones are isolated. Two beeps sound and the system returns to the disarmed state.

## 5.6 Fault Analysis Mode

If a fault occurs, the FAULT or MAINS indicators flash and the codepad beeps once every min. If the AC MAINS supply fails, the MAINS indicator flashes until the AC MAINS supply is restored. Pressing the [#] button once acknowledges the fault and stops the codepad from beeping once every min.

### How to Determine the Type of System Fault

To determine which system fault occurred, enter Fault Analysis Mode by following the steps below:

1. Hold down the [5] key until two beeps sound. The FAULT indicator remains steady and the STAY and AWAY indicators flash in unison. A zone indicator displays the type of fault that occurred (for example, Zone 1 = System Fault). Refer to *Fault Indicators, page 20* for the list of possible system faults.
2. To further determine the type of fault condition, press and hold down the key that corresponds to the zone indicator displayed. For example, if Zone 1 displayed System Fault, press and hold the [1] key to display which system fault occurred.
3. To exit Fault Analysis Mode and return to the disarmed state, press the [#] key. The FAULT indicator continues to display and the codepad stops sounding once a min.

### Fault Indicators

| Zone Indicator | Fault Description  | Hold Down Button | Zone Indicator                             | Fault Condition  |
|----------------|--------------------|------------------|--|--|
| 1              | System Fault       | 1                | 1<br>2<br>3<br>4<br>5<br>7<br>8<br>9 to 16 | Battery Fail<br>Date and Time<br>RF Receiver Fail<br>Output 1 to 3 Fail<br>Telephone Line Fail<br>Power Supply Fail<br>Tamper<br>RF Repeater 1 to 8 Fail |
| 2              | RF Low Battery     | 2                | 1 to 16                                    | Zones 1 to 16 RF Low Battery   |
| 3              | Zone Tamper Alarm  | 3                | 1 to 16                                    | Zones 1 to 16 Tamper Alarm   |
| 4              | Sensor Watch Fault | 4                | 1 to 16                                    | Zones 1 to 16 Sensor Watch Fail  |
| 5              | RF Sensor Watch    | 5                | 1 to 16                                    | Zones 1 to 16 RF Sensor Watch Fail   |
| 6              | Communication Fail | 6                | 1<br>2<br>3<br>4                           | Receiver 1 Fail<br>Receiver 2 Fail<br>IP Module 1 Fail<br>IP Module 2 Fail   |

| Zone Indicator | Fault Description       | Hold Down Button | Zone Indicator | Fault Condition                      |
|----------------|-------------------------|------------------|----------------|--------------------------------------|
| 7              | Output and Codepad Fail | 7                | 2<br>3 to 6    | Output Expander Fail<br>Codepad Fail |
| 8              | Keyfob Low Battery      | 8                | 1 to 16        | Keyfob 1 to 16 Low Battery           |

Table 5.4: Fault Indicators

## 5.6.1

### Fault Descriptions

#### 1 System Fault

A system fault only displays when any of the following faults occur. After entering Fault Analysis Mode, press and hold the [1] key to determine which of the following faults occurred.

**Low Battery Fault** – A low battery fault registers when the system detects a low capacity back-up battery. The system automatically performs a battery test every four hours and every time you arm the system.

**Date and Time** – The date and time fault registers every time the system is powered down. Refer to *Date and Time*, page 22 to program the date and time.

**RF Receiver Fail** – The RF receiver fault registers once the system detects that the wireless receiver unit is disconnected, tampered or jammed.

**Output 1 to 3 Fail** – This fault registers when the system detects any output is disconnected. This fault clears once any output is reconnected. Your installer must program the system for this feature to operate.

**Telephone Line Fail** – A telephone line fault registers when the system detects that the telephone line is disconnected from the control panel. Your installer must program the system for this feature to operate.

**Power Supply Fail** – This fault occurs when AUX power supplies fails, +12V power fails, or SDI2 Bus power fails. Contact your installer as soon as this fault displays.

**Tamper** – This fault occurs when the system detects the control panel is tampered.

**RF Repeater Fail** – The RF repeater 1 to 8 fault registers once the system detects that the wireless repeater is disconnected, tampered or jammed.

#### 2 RF Low Battery

This fault occurs when any of the RF wireless devices report a low battery condition to the control panel. While in Fault Analysis Mode, press and hold the [2] key until two beeps sound. This displays the zone reporting the RF Low Battery fault.

#### 3 Zone Tamper Fail

This fault occurs when any zone with tamper becomes an open circuit. Press and hold the [3] key until two beeps sound. This displays the zone reporting the tamper fail fault.

#### 4 Sensor Watch Fault

A sensor watch fault registers because one or more detection devices failed to detect any movement during the disarmed state for the time period programmed by your installer. The fault clears once the zone in question detects movement and resets. Press and hold the [4] key until two beeps sound. This displays the zone reporting the sensor watch fault.

#### 5 RF Sensor Watch

An RF sensor watch fault registers because one or more RF detection devices fails to communicate to the RF radio receiver for the time period programmed by your installer. The fault clears once the RF device in question successfully transmits to the RF radio receiver. Press and hold the [5] key until two beeps sound. This displays the RF detection device reporting the RF sensor watch fault.

**6 Communication Fail**

A communication fail registers when the control panel fails to communicate with the receiving party (such as a monitoring company, mobile phone). The communication fault clears once the control panel successfully reports to the receiving party.

A communication fail also registers when network module is disconnected or tampered.

To determine which receiver or module failed to communicate, press and hold the [6] key.

**7 Output and Codepad Fail**

The output fault registers when the output expander B308 is disconnected or tampered.

The codepad fault registers when any codepad is tampered or disconnected from the control panel.

To determine which fault occurred, press and hold the [7] key.

**8 Keyfob Low Battery**

This fault occurs when any of the RF keyfobs report a low battery condition to the control panel. To determine which keyfob failed, press and hold the [8] key. Only keyfob 1 to 16 faults display on the codepad through zone indicator 1 to 16.

**5.7****Date and Time**

Programming the date and time is only required when you need functions such as automatic test reports, automatic arming, and history events to operate correctly.

**How to Program the Date and Time**

1. Enter your Master Code, followed by [6] and the [#] key (for example, [25806#]). Three beeps sound, and the STAY and AWAY indicators flash.
2. Enter the day, month, year, hour, and minute(DD, MM, YY, HH, MM format) (for example, DD = day of the month, MM = month of the year, YY = current year, HH = hour of the day, MM = minute of the day). To program the hour of the day, use the 24:00 hour format.
3. Press the [#] button to exit and return to the disarmed state. Two beeps sound, and the STAY and AWAY indicators turn off. If a long beep sounds, an error was made when entering the date and time.

**5.8****Turning Outputs On/Off**

This feature is only applicable if your installer set up an output that can be turned on or off by the codepad. The output programmed by your installer can control a pool pump or outside lighting. Up to three separate outputs can be programmed.

**How to Turn an Output On or Off**

1. Enter your Master Code, followed by [5] and the [#] key (for example, [25805#]). Three beeps sound and the STAY and AWAY indicators flash.
2. Enter the output number (1 to 3).
3. Press the [#] key to turn the output on, or press the [\*] key to turn the output off. Three beeps sound if the output is turned on, and two beeps sound if the output is turned off. Repeat *Step 2* and *Step 3* if more than one output is required to be turned on or off.
4. Press the [#] key to exit from this function. Two beeps sound and the STAY and AWAY indicators turn off.

**5.9****Reset Latching Outputs**

This feature is only applicable if your installer programmed an output to latch (remain on) until you acknowledge the event that occurred.

**How to Reset Latching Outputs**

Hold down the [7] key until two beeps sound. The output resets.

## 5.10 Telco Arm/Disarm Sequence (Call Forward On/Off)

Use this feature to program the Telco Arm Sequence and Telco Disarm Sequence.

### 5.10.1

#### Telco Arm Sequence

Use to program the Call Forward – Immediate On sequence or Call Forward – No Answer sequence to automatically operate when you arm the system in the AWAY Mode. This feature is only available if your telecommunications provider has the callforward option available.

##### Call Forward – Immediate On

You can redirect calls to anywhere in Australia. When Call Forward is turned on, your telephone does not ring.

##### Call Forward – No Answer

When your telephone is not answered within 20 sec, this feature redirects all incoming calls to another number anywhere in Australia. You can still make outgoing calls.

##### How to Program the Telco Arm Sequence

1. Enter your Master Code, followed by the [3] and [#] keys (for example, [25803#]). Three beeps sound and the STAY and AWAY indicators flash.
2. Press the [1] key followed by the [#] key to select the Telco Arm Sequence. Three beeps sound.
3. Enter the Call Forward Sequence (for example, [\*61][Phone Number][#] to program the Call Forward - No Answer Sequence or [\*21][Phone Number][#] to program the Call Forward Immediate Sequence). To program an “\*” in the Telco Arm Sequence, enter [\*1], and to program a “#” in the Telco Arm Sequence, enter [\*2].
4. Press the [#] key when finished. Two beeps sound, and the STAY and AWAY indicators turn off.



##### Notice!

To disable the Telco Arm Sequence, enter the Call Forward Sequence as [\*5] (terminator) for Step 3.

### 5.10.2

#### Telco Disarm Sequence

Use this function to automatically disable the call forward sequence upon disarming the system.

##### How to Program the Telco Disarm Sequence

1. Enter your Master Code, followed by the [3] and [#] keys (for example, [25803#]). Three beeps sound, and the STAY and AWAY indicators flash.
2. Press the [2] key followed by the [#] key to select the Telco Disarm Sequence. Three beeps sound.
3. Enter the Call Forward Disable Sequence (for example, [#61#] to disable the No Answer Call Forward sequence, or [#21#] to disable the Call Forward Immediate Sequence).



##### Notice!

To program a “#” in the Telco Disarm Sequence, enter [\*2].

4. Press the [#] key when finished. Two beeps sound, and the STAY and AWAY indicators turn off.

**Notice!**

To disable the Telco Disarm Sequence, enter the Call Forward Sequence as [\*5] (terminator) for *Step 3*.

| Digit Required | Number to Program | Digit Required | Number to Program |
|----------------|-------------------|----------------|-------------------|
| 0              | 0                 | 8              | 8                 |
| 1              | 1                 | 9              | 9                 |
| 2              | 2                 | 10             | 0                 |
| 3              | 3                 | *              | * 1               |
| 4              | 4                 | #              | * 2               |
| 5              | 5                 | 4-sec Pause    | * 3               |
| 6              | 6                 |                |                   |
| 7              | 7                 | Terminator     | * 5               |

**Table 5.5: Dialing Digits**

## 5.11 Testing

The following functions let you confirm that your system is operating correctly:

### 5.11.1 Horn Speaker Test

Hold the [1] key until two beeps sound.

The horn speaker sounds for 2 sec.

### 5.11.2 Bell Test

Hold the [2] key until two beeps sound.

The bell output operates for 2 sec.

### 5.11.3 Strobe Test

1. Hold the [3] key until three beeps sound. The strobe flashes.
2. Hold the [3] key until two beeps sound. The strobe stops flashing.

### 5.11.4 Walk Test Mode

Use Walk Test Mode to test detection devices to ensure that they are operating correctly. Every time you test a zone, the codepad sounds one long beep, and the horn speaker sounds one short beep to indicate that the zone is activated when testing.

1. Enter your Master Code, followed by the [7] and [#] keys (for example, [25807#]). Three beeps sound, and the STAY and AWAY indicators flash. The codepad beeps once every sec while the system is in Walk Test Mode.
2. Activate all zones requiring the test.
3. When you finish testing all required zones, press the [#] key to exit from this mode. Two beeps sound, and the STAY and AWAY indicators turn off. The system returns to the disarmed state.

### 5.11.5 Test Report

This feature applies if your system reports using the telephone or network modules. By holding down the [9] key until two beeps sound, the system sends a Test Report.



## 5.12 Event Memory

Use this function to replay the last 256 events that the system recorded. The event memory history replays all system faults, all alarms and the arming/disarming of the system in AWAY Mode, STAY Mode 1, and STAY Mode 2.

### How to Enter Event Memory

Enter your Master Code, followed by [8] and the [#] button (for example, [25808#]). Three beeps sound. The last 256 events display one at a time by the codepad indicators, starting with the most recent event. A beep sounds as each event displays.

## 5.13 Day Alarm

Day alarm monitors a combination of zones during the disarmed state. It beeps the codepad buzzer if activated. Only your installer can program zones 1 to 4 to operate for day alarm.

### Example

A day alarm can be configured for the front door of a shop with a pressure mat or electronic beam that customers activate as they enter the shop. When customers step on the pressure mat or break the electronic beam, the codepad buzzer beeps.

### How to Turn Day Alarm On

Hold down the [4] key until three beeps sound. Day alarm turns on. All zones programmed for day alarm operation cause the codepad buzzer to beep during the disarmed state when activated.

### How to Turn Day Alarm Off

Hold down the [4] key until two beeps sound. Day alarm turns off.

## 5.14 Codepad ID / Buzzer Tone

1. Hold down the [8] key until the desired buzzer tone is reached.
2. Press the [#] key to exit.

There are 50 different tones, from 1500 Hz to 5000 Hz. If multiple codepads are installed, each codepad can have a different tone.

If the system is partitioned, the codepad display a number identifying which area the codepad belongs.

## 5.15 Remote Arming by Telephone

Arm your system from any remote location using the telephone. For security reasons, the system cannot be disarmed using this method. Your installer must program this feature to operate.

### How to Remotely Arm Your System by Telephone

1. Call the telephone number connected to your control panel.
2. When the control panel answers the incoming call, a short jingle sounds. To arm the system, press the [\*] key on the touch-tone telephone for 1 sec to 3 sec. If you hear modem tones when the control panel answers the incoming call, the system was programmed for remote programming functions by your installer. Wait for a pause between the tones before pressing the [\*] key. After releasing the [\*] key on the touch-tone telephone, two beeps sound, indicating that the system is armed in AWAY Mode.
3. Hang up the telephone and the system remains armed.

**Notice!**

If your installer programmed answering machine bypass, call the control panel twice to make a connection with the system. For example, call the telephone number your control panel is connected to and let the call ring no more than four times. Hang up the telephone. Wait a minimum of 8 sec before you calling the control panel again.

**5.16****Domestic Dialing**

Use domestic dialing can be used to call your mobile phone or a relative/friend if your control panel activates an alarm. Up to four different telephone numbers can be programmed for the control panel to call when an alarm occurs. Only your installer can program the system to report in the domestic format. The Master Code holder can change the telephone numbers at any time.

**5.16.1****Acknowledging Domestic Calls**

When an alarm condition occurs, the system calls the first programmed telephone number. When you answer an incoming call, the system repeatedly emits a siren tone followed by a pause, continuously for 10 times (for example, siren tone, pause, siren tone, and pause). If you do not acknowledge the call from the control panel during a pause between siren tones, the control panel hangs up after 10 times and recall the same call number for 2 times. If the system still can't receive the acknowledge, the system calls the next telephone number. Pressing the [\*] key for 1 sec to 3 sec during the pause acknowledges the call. No further calls are made for that event. If the call was successfully acknowledged, a tone of decreasing pitch sounds.

| Digit Required | Number to Program | Digit Required | Number to Program |
|----------------|-------------------|----------------|-------------------|
| 0              | 0                 | 8              | 8                 |
| 1              | 1                 | 9              | 9                 |
| 2              | 2                 | 10             | 0                 |
| 3              | 3                 | *              | * 1               |
| 4              | 4                 | #              | * 2               |
| 5              | 5                 | 4-sec Pause    | * 3               |
| 6              | 6                 |                |                   |
| 7              | 7                 | Terminator     | * 5               |

**Table 5.6: Domestic Dialing Telephone Digits**

**5.16.2****Programming Domestic Telephone Numbers**

If your system is set up for domestic dialing, any Master Code holder can program telephone numbers that the control panel calls in the event of an alarm.

**How to Program Telephone Numbers**

1. Enter your Master Code, followed by the [2] and [#] keys (for example, [25802#]). Three beeps sound and the STAY and AWAY indicators flash.
2. Enter the any telephone number you need and press the [#] keys (for example, [1#]).
  - If there is telephone number already programmed, they display one digit at a time by the codepad indicators and end with indicator [15].

- If there are no telephone numbers programmed, indicator [15] displays and two beeps sound.
- 3. Enter all digits of the telephone number (for example, [96721717]). As each digit is entered, the corresponding codepad indicators display.
- 4. Press the [#] key to exit from this function.

If there is more than one telephone number to program, repeat step 1 to 4.

### 5.16.3 Disable Domestic Dialing

To cancel domestic dialing (for example, you are moving and do not want the system to continue calling your mobile phone), enter the following sequence.

1. Enter your Master Code, followed by the [2] and [#] keys (for example, [25802#]). Two beeps sound and the STAY and AWAY indicators flash.
2. Enter the telephone number you need to cancel and press the [#] keys (for example, [1#]).
3. Press the [\*] key followed by the [5] and [#] keys (for example, [\*5#]). The STAY and AWAY indicators are disabled.

## 6 Glossary of Terms

| Term                           | Description  |
|--------------------------------|--|
| 24-hour zone                   | A monitored input where tamper switches and emergency switches can be connected. If one of these switches is violated at any time (whether the system is armed or disarmed), an alarm is reported.   |
| alarm condition                | The status when an alarm system is armed and one of the detection devices is violated. A 24-Hour zone (for example, a smoke detector) can activate when the system is armed or disarmed.   |
| answering machine bypass       | A condition that enables connection with the control panel for remote arming or remote programming operations when there is an answering machine or facsimile machine on the same telephone line.  |
| Armed (System ON)              | A status in which the system is ready to accept alarms.  |
| automatic arming               | Programming that allows the system to disarm automatically at the same time each day in AWAY Mode or STAY Mode 1.  |
| AWAY Mode                      | The mode used to arm your system when you leave your premises.   |
| codepad                        | A device that allows you to perform all functions such as arming, disarming, and programming of your alarm system.   |
| day alarm                      | Programming that allows a combination of zones to be monitored while the system is disarmed.   |
| detector                       | A unit installed as a satellite component in a security system designed to detect an intruder within a protected area. Some common forms of detection devices are passive infrared, smoke, photo electric beams, reed switches, and vibration sensors. |
| disarmed                       | A system status that does not accept alarms, except for 24-Hour zones.   |
| dynamic battery testing        | A method used to monitor and test the condition of your backup battery.  |
| entry delay                    | A programmed delay of the system alarm responses that allows a person to enter a building through the entry door to turn the system off.   |
| external equipment             | Any device connected to a security system, such as a detector, codepad, or siren.  |
| force arming                   | A method of overriding the safety feature that prevents arming with a faulted zone on a control panel.   |
| hand-over delay                | If a system is armed and Zone 1 is violated, the entry delay starts timing. If Zone 2 is violated, the entry delay time is handed over to the Zone 2 and so on, to Zones 3 and 4. This is known as sequential hand-over delay.                         |
| hand-held radio remote control | A device used to arm and disarm a security system or to cause a panic alarm.   |

| Term                     | Description   |
|--------------------------|---|
| isolate                  | A method of manually disabling (isolating) one or more zones before arming the system.  |
| master code              | A numeric code used for arming and disarming the system, and for allowing access to all functions available through the codepad.  |
| monitoring station       | A secure location where a digital receiver monitors a number of alarm systems and deciphers their alarm transmission reports so the operator can advise the appropriate authorities to take immediate action.     |
| panic                    | A condition or type of alarm in which the user requires either immediate police or medical assistance.  |
| sealed                   | Refers to a zone's status. If a zone is sealed, the detection devices are not violated and the zone indicator is not lit (that is, a reed switch is closed or a detector is on standby waiting for an intrusion). |
| sensor watch             | A feature that allows the control panel to recognize when detection devices might have stopped working. Sensor watch monitors the operation of a zone over a programmed time period.                              |
| silent alarm             | An alarm that sounds only at a remote location, and gives no obvious local indication that an alarm was sent out.   |
| STAY Mode 1              | A condition that automatically isolates certain zones when the security system is armed in this mode. Only the installer can program these zones.   |
| STAY Mode 2              | A condition that automatically isolates certain zones when the security system is armed in this mode. The Master Code holder can program these zones.   |
| telco arming sequence    | A feature that automatically diverts a telephone number to another telephone when a security system is armed in AWAY Mode, the same as using call forwarding.   |
| telco disarming sequence | An automatic suspension of diverting of the telephone when the system is disarmed.  |
| unsealed                 | Refers to a zone's status. If a zone is unsealed, the detection devices are violated and the zone indicator is lit (that is, a reed switch is open or a detector noted an intrusion).                             |
| user code                | A numeric code used to arm and disarm the system.   |
| zone                     | A monitored input used to activate an alarm. A zone might be set up to activate an alarm only when the system is armed or to operate whether the system is armed or disarmed.                                     |

Table 6.1: Glossary of Terms





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