

# TS400 & TS410

## Intruder Alarm Control Panels

### Operating Instructions

| Zone    | Location | Home Set        | Chime |
|---------|----------|-----------------|-------|
| 1       |          | Armed / Omitted |       |
| 2       |          | Armed / Omitted |       |
| 3       |          | Armed / Omitted |       |
| 4       |          | Armed / Omitted |       |
| 5       |          | Armed / Omitted |       |
| F. Exit |          | Always Armed    |       |

# Introduction

The TS400 and TS410 are 6 zone microprocessor based intruder alarm panels. Before attempting to operate the system, please ensure that you have read these instructions and discussed the operation of the system with the installation engineer. If you experience problems with the alarm system refer to the "Fault Finding" section on the back page.

## Operator Controls & Indicators

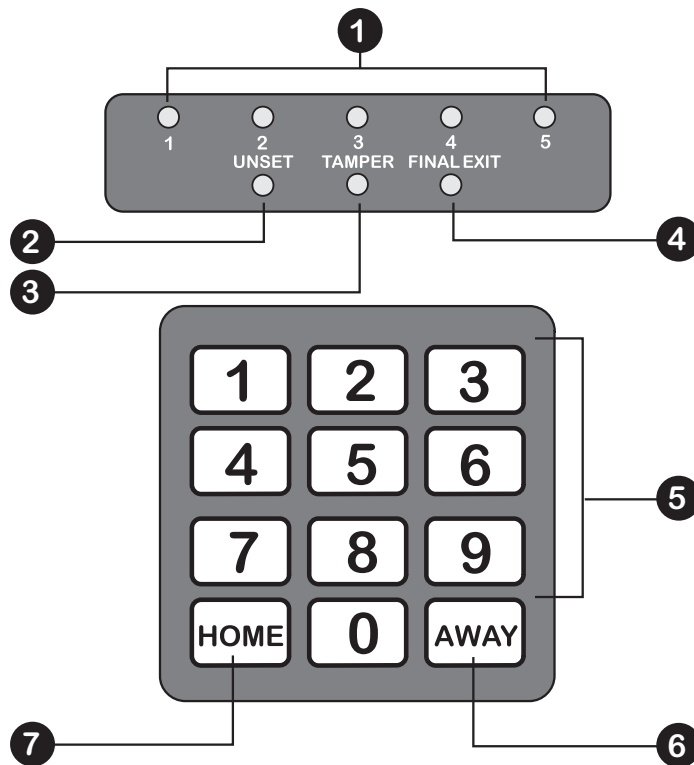



Figure 1 Operator Controls & Indicators

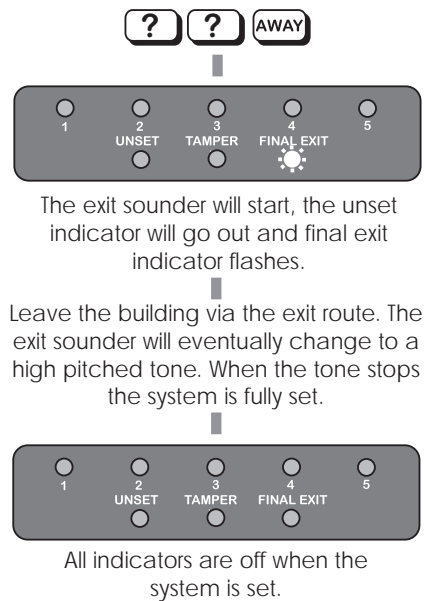
- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>1 Zone Indicators</b><br/>These red indicators are used to show the status of zones 1 to 5.</p> <p><b>2 Unset Indicator</b><br/>This green indicator is used to indicate the status of the system, set or unset. It also flashes when the mains power to the system is removed or when the master user selects the user menu.</p> <p><b>3 Tamper Indicator</b><br/>This red indicator is used to indicate a system tamper alarm, i.e. someone removing the cover from a detector or control panel. The tamper indicator will also flash when the selecting "chime" circuits.</p> | <p><b>4 Final Exit Indicator</b><br/>This red indicator is used to show the status of the final exit zone. The final exit zone is normally the front door or last detector triggered when leaving the building.</p> <p><b>5 Keypad</b><br/>10 digit keypad used for operating the system.</p> <p><b>6 Away Key</b><br/>The away key is used when full setting the system.</p> <p><b>7 Home key</b><br/>The home key is used when part setting the system.</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Away Set

The away set option is used to arm all zones when you leave the premises. Before attempting to set the system, ensure that all doors and windows are securely closed. If pets are to be left inside the protected premises they must not have access to areas protected by movement detectors.

- 1 Enter the first 2 digits of your passcode followed by **[AWAY]**. The internal sounder will sound, the unset indicator will go out and the final exit indicator will flash.
- 2 Leave the premises via the designated exit route.
- 3 The internal sounder will change to a high pitched tone, after 5 seconds a multi-tone sound will be heard and the system fully sets.


 *If the internal sounder changes to an alarm tone, you must re-enter the premises and enter your passcode. The indicators that are lit are the zones that prevented the system from setting. Check the relevant zones and repeat above procedure.*

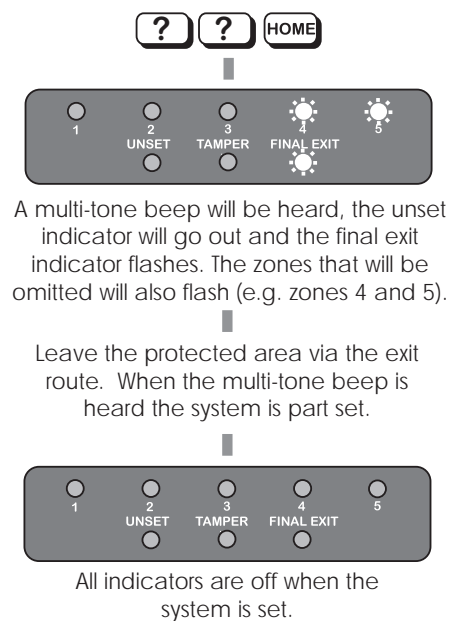


## Home Set

The home set option is used when staying inside the premises and only arming some of the zones. To program the zones that will be omitted see "Home Set Configuration" on page 7. Before attempting to set the system, ensure that all doors and windows are securely closed. If pets are to be left inside the protected premises they must not have access to areas protected by movement detectors.

- 1 Enter the first 2 digits of your passcode followed by **[HOME]**. The internal sounder will emit a multi-tone sound, the unset indicator will go out and the final exit indicator will flash. The indicators for the zones that will be omitted will also flash.
- 2 Leave the area to be protected via the designated exit route.
- 3 When the second multi-tone sound is heard the system is part set.


 *If the internal sounder changes to an alarm tone, you must proceed to the keypad and enter your passcode. The indicators that are lit are the zones that prevented the system from setting. Check the relevant zones and repeat above procedure.*



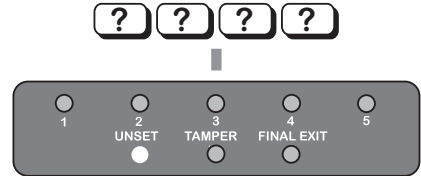
## Unsetting The System

To unset the system, proceed as follows:

- 1 Enter the premises via the designate entry door. The internal sounder will sound.
- 2 Proceed directly to the keypad and enter all 4 digits of your passcode.
- 3 The sounder will stop and the unset indicator will light. The system is now unset.

 *If the programmed entry time is exceeded, the internal sounder will emit an alarm tone for the duration of the programmed entry time. If a valid passcode is not entered at the keypad before the addition time expires, a full alarm will occur, i.e. internal and external alarm.*

Enter the building via the designated entry point. Proceed directly to the keypad and enter all 4 digits of your passcode.



The system is now unset.

## Resetting After an Alarm

When an alarm has occurred the system will require resetting before the system can set again. Your alarm company will have configured your system to be reset by one of the following methods:


User Reset:

Engineer Reset:

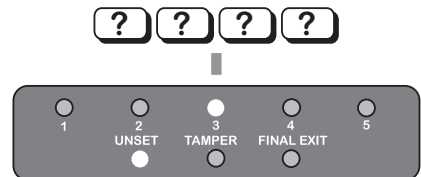
Remote Reset:

When an alarm occurs with the system full or part set proceed as follows:

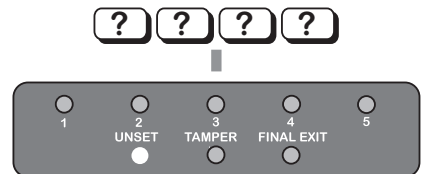
- 1 Enter the premises via the designate entry route. The internal sounder will sound.
- 2 Proceed directly to the keypad and enter all 4 digits of your passcode.
- 3 The sounder will stop and the unset indicator will light. The zone indicators associated with the alarm condition will also light.
- 4 Check the system as necessary.
- 5 Enter your passcode again to reset the system. The zone indicator that was lit will go out. The system is now reset.

 *If after unsetting the system the internal sounder continues to emits a pulsed tone, the system will require a reset by either engineer or remote reset. To silence the pulsed tone, enter your passcode.*

Enter the building via the designated entry point. Proceed directly to the keypad and enter all 4 digits of your passcode.



The system is unset and the zone that caused the alarm is indicated (e.g. zone 3).



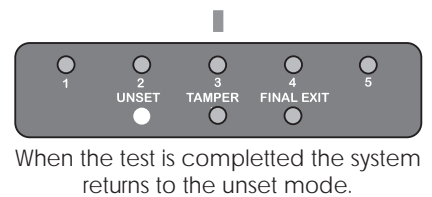
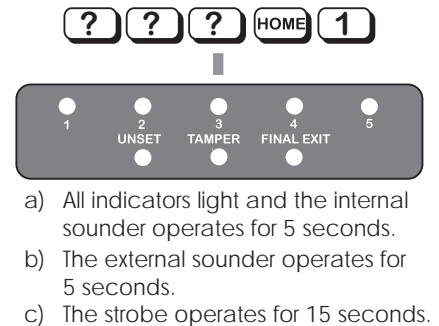
The system is now reset.

|                               |  |
|-------------------------------|--|
| For engineer reset telephone: |  |
| For remote reset telephone:   |  |

## Bell Test

This function allows user 1 to periodically test the operation of the internal sounders, external sounders and strobe.

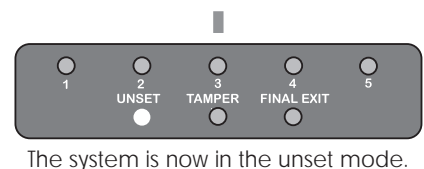
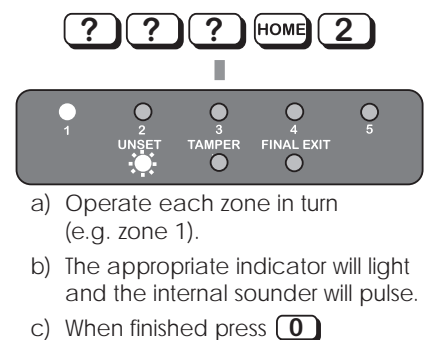
- 1 Enter the first 3 digits of your passcode then **[HOME]** then **[1]**.
- 2 All indicators will light and the internal sounder will operate for five seconds.
- 3 Then the external sounder will operate for five seconds.
- 4 Then the external strobe will operate for fifteen seconds.
- 5 When the test is completed, the system will return to the unset mode.
- 6 To stop the test at any time and return the system to the unset mode, press **[0]**.



## Walk Test

This option allows user 1 to periodically test the operation of detectors and door contacts. Operating detectors whilst the system is in the walk test mode will cause the internal sounder to emit a pulsed tone and the appropriate zone indicator to light.

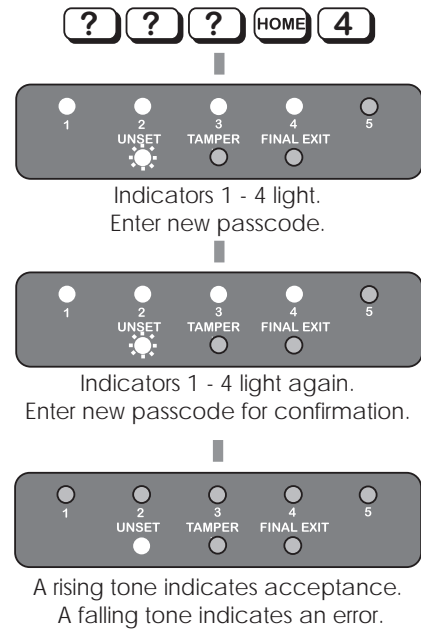
- 1 Enter the first 3 digits of your passcode then **[HOME]** then **[2]**.
- 2 Operate each zone in turn by opening doors fitted with alarm contacts and walking in front of movement detectors.
- 3 When the test is completed press **[0]**. A high pitch acceptance tone will be heard and the system returns to the unset mode.



## Changing Passcode 1 (Master)

This option allows user 1 to change their passcode. The default passcode when the panel leaves the factory is 5 6 7 8.

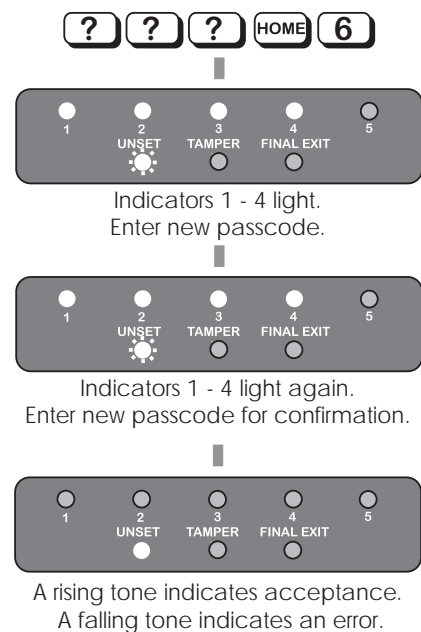
- 1 Enter the first 3 digits of your passcode then **[HOME]** then **[4]**.
- 2 Indicators 1 to 4 will light.
- 3 Enter your new passcode, as you enter each digit the indicators will go out one by one.
- 4 On entering all four digits, indicators 1 to 4 will light again.
- 5 Re-enter your new passcode again for confirmation, as you enter each digit the indicators will go out one by one.
- 6 After entering your new passcode for the second time the system will return to the unset mode.
- 7 A rising tone indicates the new passcode was accepted, a falling tone indicates an error and the above procedure must be repeated.



## Changing Passcode 2

This option allows user 1 to change user 2 passcode.

- 1 Enter the first 3 digits of your passcode then **[HOME]** then **[6]**.
- 2 Indicators 1 to 4 will light.
- 3 Enter the new passcode, as you enter each digit the indicators will go out one by one.
- 4 On entering all four digits, indicators 1 to 4 will light again.
- 5 Re-enter the new passcode again for confirmation, as you enter each digit the indicators will go out one by one.
- 6 After entering the new passcode for the second time the system will return to the unset mode.
- 7 A high rising tone indicates the new passcode was accepted, a falling tone indicates an error and the above procedure must be repeated.




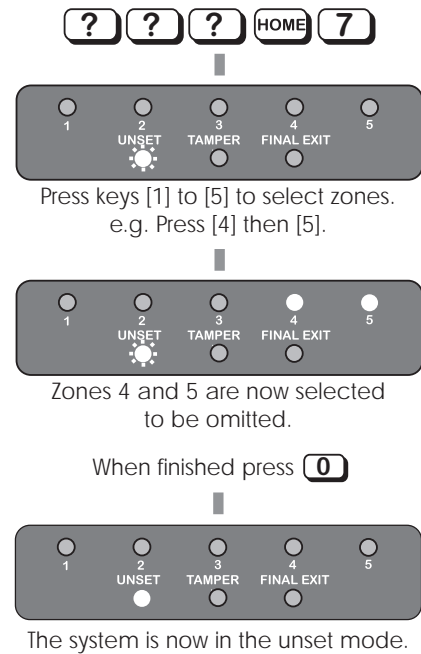
 *The second user passcode will be lost if all power to the control panel fails.*

# Home Set Configuration

This option allows user 1 to select which zones will be omitted when a "Home Set" is selected. The final exit zone cannot be omitted when selecting zones.

- 1 Enter the first 3 digits of your passcode then **[HOME]** then **[7]**.
- 2 Press keys **[1]** to **[5]** to turn zone indicators 1 - 5 on and off. When a zone indicator is lit the zone will be omitted. When a zone indicator is off the zone will be armed.
- 3 When completed press **[0]**. A rising acceptance tone will be heard and the system returns to the unset mode.


 *If zones 3, 4 or 5 cannot be selected then they have been programmed by your alarm company for alternative operation, i.e. keyswitch, Fire or PA.*

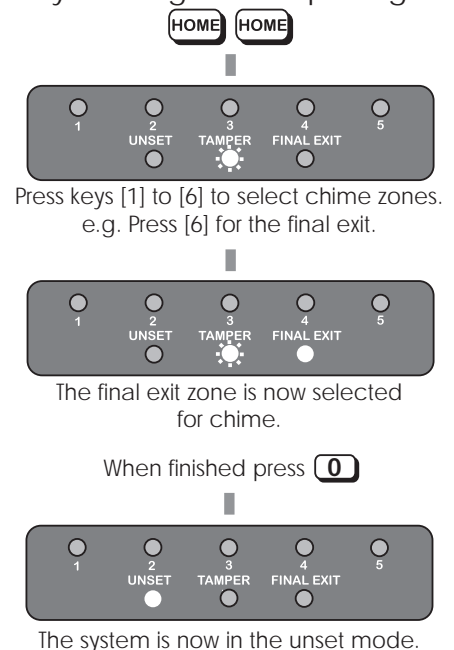


# Chime Feature

This feature allows the selected zones to generate a two-tone beep every time the zone is triggered when the system is unset. This may be used as a courtesy warning of the opening of a shop door etc.

- 1 Press **[HOME]** then **[HOME]**.
- 2 Press keys **[1]** to **[6]** to turn zone indicators 1 - 5 on and off (6 is used for the final exit zone). When a zone indicator is lit the zone will be selected as "Chime". When a zone indicator is off the zone will not chime.
- 3 When completed press **[0]**. A rising acceptance tone will be heard and the system returns to the unset mode.

 *If zones 3, 4 or 5 cannot be selected then they have been programmed by your alarm company for alternative operation, i.e. keyswitch, Fire or PA.*



## Fault Finding

**Problem** *I enter my passcode to set the system but the system emits an intermittent sound and one of the indicator zones is on.*

**Cause** The tone indicates that a detector is active or a door has been left open. The indicator that is on, indicates which detector or door is active.

**Action** Close doors, wait 10 seconds and try again. If the problem persists contact your alarm company.

**Problem** *After unsetting the system one of the zone indicators remained on.*

**Cause** The indicator shows the alarm zone that was activated when the system was set.

**Action** Please refer to the section on "Resetting After an Alarm" after checking the building.

**Problem** *The system emits an two-tone beep every time I open certain doors.*

**Cause** The system has a facility called "Chime", which causes the internal sounders to emit a two-tone beep every time certain zones are activated.

**Action** To turn this facility on or off, see the section on "Chime".

**Problem** *The internal sounder and TAMPER indicator comes on during the day.*

**Cause** This shows that the panel has detected a "tamper" fault, i.e. a wiring fault or a cover removed from a detector, control panel or external siren.

**Action** Call your alarm company immediately.

**Problem** *The system was in the unset mode and the internal sounder operated, and external sounder sounds pulses on and off.*

**Cause** The system has a facility to monitor smoke detectors (zone 4). If one of these is activated, the external siren will be pulsed on and off to show that the alarm was caused by a fire and not a burglar.

**Action** Check the smoke detector to ensure that they are clear of smoke. If the problem persists contact your alarm company.

**Problem** *The UNSET indicator is flashing.*

**Cause** The mains power to the panel is off or the internal fuse has blown. The system will operate from the internal battery for about 8 hours.

**Action** If the mains to the building is on, contact your alarm company.

**Problem** *When setting the system, the external strobe starts to flash.*

**Cause** This shows that the system has not set correctly.

**Action** Re-enter the building, clear the indications and try again.

**Problem** *Although I follow the correct procedure, the system will not allow me to change my passcode.*

**Cause** The system analyses the new code entered and may refuse to accept certain code combinations for technical reasons.

**Action** Try repeating the procedure with a different passcode.