# NESS D·8 D·16

DIALLER SECURITY ALARM PANEL

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Ness D8x / D16x ALARM CONTROL PANEL

# USER'S MANUAL

A$15.00

Revision 5.2

# CONTENTS

# NESS D8x AND D16x FEATURES

- 8 or 16 alarm zones.

- Supports up to 3 remote LCD or LED keypads.

- 56 user codes can be programmed to operate by keypad PIN, radio key or access card.

- Optional Ness Radio Interface for fully integrated wireless security.

- Programmable 2 Area partitioning can split the panel into two independent areas plus a common area.

- Monitor Mode allows partial arming, (eg, permieter security overnight).

- Day Mode feature allows daytime monitoring of fire doors, coolrooms etc.

- Temporary Day Zone feature allows easy enabling/disabling of Day Mode.

- Keypad Panic feature.

- Keypad Duress feature.

- Two button arming feature.

- Fire Alarm feature with different siren tones.

- Highly flexible zone to output mapping.

- Onboard Vibration Sensor Analyser with programmable sensitivity. Use with Nessensor™ vibration sensors.

- Siren chirp and strobe flash on arming with radio key.

- Quiet chirps option on arm/disarm by radio key.

- True Dynamic Battery Test actively tests the battery under load every hour.

- 4 programmable auxiliary outputs.

- Automatic reset fuses.

- Programmable siren/reset lockout.

- 30 event memory from keypad.

- Standard defaults to suit most applications.

- Easy programming by keypad or NessComms™ software.

- All programming data is permanently stored in a non-volatile memory.

- All inputs and outputs are heavily protected against lightning and high voltage supply transients.

- Optional output expander.

## DIALLER

- Full remote upload/download by PC and modem using NessComms™ software.

- Remote control of outputs by telephone.

- Arm/disarm remotely by telephone

- Contact ID Format for central station monitoring. Supports two 14 digit phone numbers plus one "follow me" number for audible monitoring.

- Audible format feature.

- Phone line monitoring (activates output).

- Dialler 'Listen in' option for installers.

- Auto Test calls.

- Pulse or DTMF dialling.

- True dial tone detection.

The Ness D8x and D16x microcomputer based 8 or 16 zone **control panel** is the heart of your security system to which all your detection devices connect.

Each **Zone** of the panel can be connected to one or more detection devices to protect separate rooms of your premises.

Detection devices may be wired to the panel or you can use optional wireless detectors.

**Passive Infra-Red** motion detectors (**PIR**s) are used to detect motion of people or animals. **Pet Aware** motion detectors can ignore pets and still detect people. **Reed Switches** are fitted to windows and doors to detect opening. **Vibration sensors** such as the **Nessensor™** can be used to detect glass breakage or forcing of windows or doors.

Normally a zone is considered **Sealed**. Activation of a detection device will cause the zone to be **Unsealed** and may cause an alarm.

Detectors such as fire detectors and panic buttons must be able to generate an alarm at all times regardless of the panel setting. A zone with this assignment is called a **24 hour zone**.

Some detection devices may be required to generate an alarm or warning only when the panel is Disarmed. A zone with this assignment is called a **Day zone.**

Before leaving the premises you must **"Arm"** (turn on) the panel. After arming, the panel will ignore detectors during the **Exit Delay Time** to allow you to exit without triggering an alarm.

The system can be armed and disarmed using the keypad supplied or by optional Radio Keys or Access Cards or Fobs.

When you enter the premises the panel will ignore selected zones for the **Entry Delay Time** and will not alarm unless you disarm the panel during this allowed time.

When an alarm occurs, it can be reset with a **User Code**[1] or by optional Radio Key or Access Card/Fob[2], otherwise it will reset at the end of Alarm Reset Time. Resetting an alarm stops the sirens and strobe light. If an alarm is not reset the sirens will stop after the programmed time (default is 5 minutes) and the strobe light will stop after 72 hours.

**Monitor mode** allows you to Arm selected zones while others are ignored. Typically, perimeter zones (doors and windows) can be monitored while you are at home.

If you wish to split your alarm system into two areas with access limited to each area by code numbers then **Area operation** is used. Radio Keys can also Arm and Disarm Areas.

The control panel housing and the covers over external sirens are protected by **tamper switches** to detect someone attempting to disable the security system. Activation of these switches will cause an instant tamper alarm.

If there is a problem with a detector, you can **Exclude** the associated zone so that it is totally ign ored and cannot generate an alarm. Including the zone will enable it to generate an alarm again.

The control panel is fitted with a **rechargeable backup battery** to ensure your security system continues to operate if the mains power is interrupted. This control panel automatically tests the battery every hour and whenever you Arm/Disarm the panel. **(Dynamic Battery Test).**

All alarms are stored in memory and can be viewed at any time in **Memory Mode**.

[1] Keypad codes programmed as ARM ONLY will not reset the panel.

[2] Access Cards/Fobs can reset the panel if the DISARM BY ACCESS CARD option has been enabled by your installer.
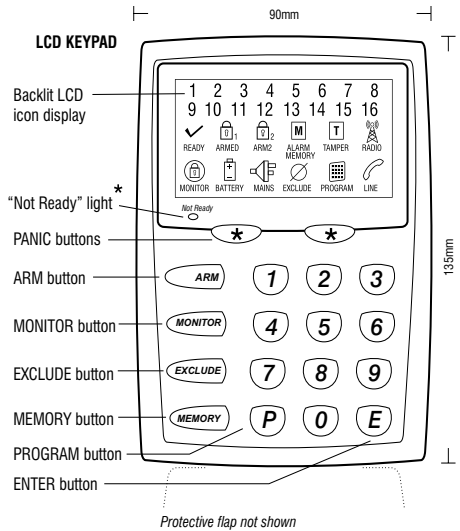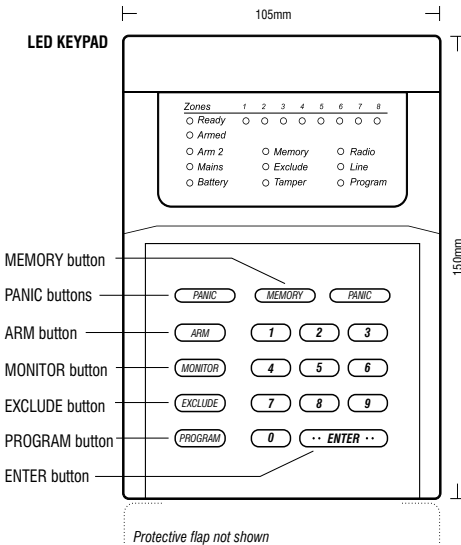
# KEYPAD

The D8x control panel may be supplied with either the LED keypad or LCD Keypad.
The D16x control panel is supplied with the LCD Keypad.

 The keypad provides important visual and audible indications and is the main interface for operating and programming the control panel.

## DISPLAY TEST (LCD Keypad only)

To display all the keypad icons press and hold the $(E)$ button for at least 2 seconds.  All the icons will be on whilst the $(E)$ button is held down.

Display Test can be activated at any time either in operating mode or any program mode.



Protective flap not shown

* The "Not Ready" light is on when the panel is not ready to Arm. i.e, a zone is unsealed, there may still be movement in the premises or a door or window left open

## KEYPAD BEEPER SOUNDS
LED keypad and LCD keypad

| Each key press | ♩ 1 beep |
|---|---|
| Valid command | ♩♩♩ 3 beeps |
| Error | ♩⊓ 1 long beep |
| Mains Power is off or Panel Battery is low | ♩⊓¹⁰⊓ 10 beeps |

Keypad beeper sounds for LED or LCD keypad.

## KEYPAD LIGHTS IN NORMAL OPERATING MODE

| LED KEYPAD | LCD KEYPAD | ● OFF | ○ ON | ☀ FLASHING |
|---|---|---|---|---|
| **ZONES 1~8 or 1~16** | | Zone is sealed | Zone is unsealed | Zone alarm |
| ○ **READY** | ✓ READY | Zone is unsealed, or Power fault or System is Armed, or phone line fault | Ready to Arm | |
| ○ **ARMED** | 🔒1 ARMED | Disarmed | Armed (AREA 1) | Monitor Mode (LED Keypad only) |
| ○ **ARM2** | 🔒2 ARM2 | Disarmed | Armed (AREA 2) | |
| | 🔒 MONITOR | Disarmed | Monitor Mode | |
| ○ **MAINS** | MAINS | Normal | | Mains Power is off |
| ○ **BATTERY** | 🔋 BATTERY | Normal | | The panel's backup battery is low |
| ○ **MEMORY** | M ALARM MEMORY | Normal | Memory Mode selected | New alarms in memory |
| ○ **EXCLUDE** | ⊘ EXCLUDE | Normal | | Zones are excluded |
| ○ **TAMPER** | T TAMPER | Normal | | Tamper alarm |
| ○ **RADIO** | 📡 RADIO | Normal | Receiving radio signal | Indicates that a Radio Key or other radio device has a low battery |
| ○ **LINE** | LINE | Normal | Dialler is on line | Phone line fault or failure to communicate |
| ○ **PROGRAM** | PROGRAM | Normal | User Program Mode | Installer Program Mode |
| | ***Not Ready*** ○ | Ready to Arm | Not ready to Arm | |

See page 17 for keypad indicators in Memory Mode.

# OPERATION

**This section describes the operation of a typical control panel installation. Keep in mind that your installation may vary depending on the selected options and equipment. The operating instructions which follow will cover the most common options.**

**Consult your installation company if you require further information.**

All control panel operations are controlled by the keypad except if an optional key switch, radio remote control or access control equipment is installed.

## OPERATING RULES
Generally, the panel will be Disarmed. Armed or Monitor modes provide different levels of security for your premises when you are home or away. Three other temporary modes; Program, Memory and Exclude, allow you to perform various operations. The panel will automatically exit from these temporary modes if you do not press any buttons on the keypad in a 4 minute period.

If you make a mistake while entering any codes, press the Enter or E button and start again.

When you are required to enter your access code, you are given five opportunities to enter it correctly. After the fifth invalid attempt the alarm is activated (requiring the correct code + E to silence the alarm). This prevents anyone trying to guess your code by entering random numbers.

## AREA PARTITIONING
Area Partitioning allows the zones to be split into two partitions; Area1 and Area2.

The panel then effectively operates as two separate systems sharing only the siren outputs and dialler.

## USER CODE ASSIGNMENT
A User Code assigned to an Area can Arm and Disarm only that Area. User Codes assigned to both Areas will operate both Areas simultaneously.

## COMMON AREA ZONES
Zones assigned to both Areas are Armed only when Area1 and Area2 are both Armed. This allows the Common Area zone/s to be shared by both Areas.

For example, Office A and Office B operate as separate areas but the entrance foyer used by both offices is assigned to both areas meaning it will automatically Arm when both Areas have Armed. The Common Area then automatically disarms when either Area1 or Area2 Disarms.

## AREA OPERATION
Arming and Disarming is carried out as normal from a single keypad or separate keypads installed in both areas or by Radio Key.

Area operation only applies to zones when they are in the Armed state. This means that Day, 24hr and Monitor zones are independent of the area operations.

Note: Area partitioning is in addition to Monitor Mode. Any zone may be allocated to any area.

**LED KEYPAD**

The Ness LED keypad has large backlit buttons for easy operation and a hinged flap to cover the keys when not in use. LED indicators show the condition of the zones, armed state, mains and battery and other information.

Supplied with the D8x LED Panel. Also available separately. Part Number 100-192.



**NESS LCD KEYPAD**

The Ness LCD keypad uses a large illuminated LCD display to show system and zone status. The large easy to read buttons are backlit for and a hinged flap covers the keys. The LCD icon display provides information on zone condition, armed state, mains and battery condition and other information.

Supplied with the D8x LCD Panel and the D16x LCD Panel. Also available separately. Part Number 100-667.



100–664
Ness RK3
Radio Key

100–067
Ness RK4
Radio Key

**NESS RADIO KEYS**

The optional Ness Radio Keys give you the convenience of remote control operation. Multi-button operation allows you to Arm, Disarm and activate PANIC.

The RK4 Radio Key can also be programmed by your installer to activate an auxiliary output on the control panel.



**NESS ACCESS CONTROL**

D8x and D16x also have an access control option for arming/disarming and controlling electric door locks.

The panels have built-in software and hardware support for up to 3 Ness Weigand proximity card readers and up to 55 proximity cards or fobs.

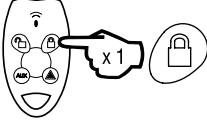Ness Ultraprox Weigand Reader. Part Number 101-014.
Proximity Card part number 100-273.
Proximity Key Fob part number 100-274.

**Note:** Radio Keys and Access cards and readers are optional and are not supplied with any Ness control panel as standard. Ness radio products require a Ness Radio Interface (100-200) to be fitted to the control panel.

# OPERATION

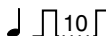| TO **ARM** THE PANEL | | |
|---|---|---|
| by **KEYPAD** | by **RADIO KEY** | by **ACCESS CARD** or **FOB** |
| Press (ARM) + (E)<br>(If the Arming Shortcut is enabled).<br><br>or press<br>(ARM) + [User Code] + (E)<br><br>or press [User Code] + (E)<br>(If Code Only Arming has been enabled by your installer). | <br>Press the ON button once.<br><br>The strobe light will flash briefly.<br><br>If programmed, the external siren will *chirp* once.<br><br>(If Monitor Arming by Radio Key is enabled, the chirp will be delayed by 5 seconds). | <br>Present a Card or Fob twice.<br><br><br>Or, present a Card or Fob once + press button.<br><br>Depending on which option has been enabled by your installer. |
| The Armed light will turn on.<br>Leave the premises within the *Exit Delay Time*. 3 beeps will sound at the end of *Exit Delay Time*. | | |

\*  On the LED keypad, the *Ready* light should be on.  On the LCD keypad, the *Not Ready* light should be off.

The control panel must be armed in order to detect intruders.

Before arming, all zones should be **Sealed** by making sure there is no movement in rooms protected by motion detectors. Doors or windows protected by reed switches should be closed.

The panel cannot be armed if in Program, Monitor, Memory or Exclude modes or if it is in alarm. (User codes that are programmed to be Arm Only codes can arm the panel either the disarmed state or from Monitor Mode.

A keypad is supplied with the panel. Operation by Radio keys and access cards is optional.
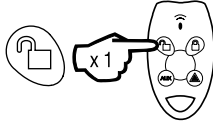
♪ ⌐10⌐ 10 beeps when you arm means Mains Power is turned off or the backup battery is low.

♪ ⌐‾‾‾⌐ One long beep when you arm could mean the panel is already armed or the keypad code is wrong, (if not using Shortcut Arming).

SIREN WARNING:

At the end of the exit time, all zones should be **Sealed**. If any are **Unsealed**, the siren will sound for 2 seconds to indicate that those zones have been automatically excluded. You should disarm the panel, check the premises and then arm again. Continual warnings could mean there is a problem with a detection device - that zone may have to be manually excluded.

If a zone is Unsealed at the end of exit time and the auto-exclude option is disabled, the siren will sound for the duration of siren time, (default is 5 minutes).

| to **DISARM** | | |
|---|---|---|
| by **KEYPAD** | by **RADIO KEY** | by **ACCESS CARD** or **FOB** |
| • Enter the premises through a Delay Zone.<br><br>• Press  **[USER CODE]** + ⓔ<br><br>• The ARMED light will turn off. | <br>Press the OFF button once.<br><br>The strobe light will flash briefly.<br><br>If required, your installer can program the external siren to *chirp* 3 times when disarming. | <br>Present a Card or Fob once. (if the installer has enabled disarming by access card). |

When you enter the protected premises through a delay zone, the keypad responds with regular beeps[1] as a reminder to Disarm. You then have your programmed entry delay time to disarm the panel.

If the panel is not disarmed by the end of the entry delay time, an alarm will occur.

By using the optional radio keys  you may disarm your system from within your premises or from outside your entrance door. There is also the option to 'Chirp' the outside siren three times and briefly flash the strobe light to indicate that you have disarmed your system.

If you make a mistake when entering your keypad code, then you must press E (or Enter) and start again. Five incorrect entries will cause an alarm.

The panel can be reset and the siren/s silenced by disarming the panel.

If you arrive at your premises and find the strobe light flashing[2] (if installed), reset the panel as above. To check the cause of the alarm, you can view the alarms in memory by entering Memory Mode.

**Note:** *Arm Only* **codes**

User codes can optionally be programmed to be *Arm Only* codes. An *Arm Only* code can Arm the system but it cannot Disarm. (See page 23 for User Codes programming). However if an *Arm Only* code is assigned to a radio key, the radio key OFF button will arm and disarm.

[1] If Entry Beeps are enabled.

[2] In the event of an alarm, the strobe light will flash for 72 hours or until the panel is reset.

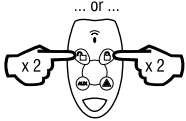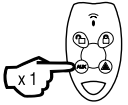| to arm **MONITOR** Mode | |
|---|---|
| by **KEYPAD** | by **RADIO KEY** |
| Press (MONITOR) + (E)<br><br>(If the MONITOR SHORTCUT is enabled). | Monitor arming by radio key must be enabled by your installer. |
| | <br>... or ...<br><br>Press either the OFF button or the ON button twice within 4 seconds. / Or press the AUX button once. (RK4 radio key only). |
| or press (MONITOR) + [USER CODE] + (E) | The strobe light will flash briefly.<br><br>If required, your installer can program the external siren to *chirp* twice when arming Monitor mode. |

Monitor mode allows you to Arm selected zones while others are ignored. Typically, perimeter zones (doors and windows) can be monitored while you are at home.

Your installer must program which zones will be active in Monitor mode.

If an alarm occurs while in Monitor mode, entering **[User Code]** (E) will silence the alarm. This will also Disarm the panel, so remember to enter monitor again if needed.

Using the optional Radio Keys you can enter Monitor Mode by pressing either the OFF button or the ON button twice within 4 seconds or by pressing the AUX button, (RK4 radio key only). These options must be enabled by your installer.
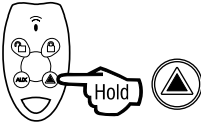
*Note:* **Monitor and Area arming**

Monitor Mode can be used if the panel is fully disarmed or if only Area2 is armed. Monitor Mode is not available when Area 1 is armed.

The panel can be armed in MONITOR mode if Area2 is already armed on these conditions:

• Area 1 must be OFF.

• Area 2 must be armed first, and then Monitor armed – not the reverse.

• Zones assigned to both Monitor mode and to Area 2 will act as Monitor zones when both Area 2 and Monitor are armed.

Note: Monitor arming when AREA 2 is armed cannot be done by Radio Key or by keyswitch.

| **PANIC** alarm | |
|---|---|
| by **KEYPAD** | by **RADIO KEY** |
| Press ⊛ ⊛ star keys together. |  |
| or press ⊛ + [USER CODE] + Ⓔ | |
| or press ⊛ + Ⓔ<br>(If KEYPAD PANIC SHORTCUT is enabled). | Press and hold the PANIC button for at least 4 sec. |

The keypad PANIC function may have been programmed to be either **AUDIBLE** to activate the sirens, or **SILENT** to send a PANIC report by dialler if your system is monitored by a Central Station.

PANIC cannot be used while the panel is in Program, Memory or Exclude mode.

Note: Your installer may have installed a separate PANIC button. To activate the panic alarm simply press that button.

| Keypad **DURESS** alarm |
|---|
| by **KEYPAD** |
| Press [5, 6, 8 OR 9] + [USER CODE] + Ⓔ<br><br>Add one these digits in front of a user code when disarming.<br><br>This sequence will disarm the panel and send a Duress report by dialler if the system is monitored by a central station. |

The DURESS alarm can be used to send a silent alarm to the central station that you are being forced to disarm the panel against your will. That is; you are disarming under "duress."

To disarm and send a DURESS alarm, prefix your User Code with one of the digits 5, 6, 8 or 9 when Disarming.

* THE KEYPAD DURESS IS NORMALLY NOT ENABLED. TO ENABLE THIS FUNCTION, CONSULT YOUR INSTALLER.

* DURESS ALARMS CAN ONLY USED BY SYSTEMS WHICH ARE MONITORED BY A CENTRAL STATION.

* THE DURESS ALARM CAN BE PROGRAMMED TO SOUND THE INTERNAL SIREN (RESET OUTPUT). THIS OPTION IS OFF BY DEFAULT.

# OPERATION

| Keypad **MEDICAL** alarm |
|---|
| by **KEYPAD** |
| Press ②  +  Ⓔ<br>Sends a Medical Alarm report by dialler.<br>*(If this option has been enabled by your installer and the system is monitored by a central station).*<br><br>The Medical Alarm does not sound the sirens. |

| Keypad **FIRE** alarm |
|---|
| by **KEYPAD** |
| Press ③  +  Ⓔ<br>Sounds the siren using the Fire Alarm sound.<br>*(If Keypad Fire Alarm has been enabled by your installer).*<br><br>And sends a Fire Alarm report by dialler.<br>*(If this option has been enabled by your installer and the system is monitored by a central station).* |

## How to **EXCLUDE** zones

by **KEYPAD**

Press (EXCLUDE) + ( E )
(If the EXCLUDE SHORTCUT is enabled)

or press (EXCLUDE) + [USER CODE] + ( E )

The Exclude light will turn on.

then press [ZONE No.] + ( E ) [ZONE No.] + ( E ) (Enter the zone number/s to be excluded.)

then press ( E ) to exit Exclude mode

The Exclude light flashes constantly while zones are excluded. Excluded zones are automatically Included next time the panel is disarmed.

If there is a problem with a detection device and the zone cannot be sealed when arming the panel, then that zone can be Excluded so that it does not generate alarms.

When zones have been Excluded, the EXCLUDE light flashes continuously while the panel is Disarmed and also when Armed.

Zones can be excluded while the panel is either Disarmed or Armed. See notes below.

Zone Exclude is not permanent. Excluded zones are automatically included next time the panel is Disarmed.

Zones can be manually included by the same method as Excluding. Simply use the [ZONE No.] + ( E ) sequence to turn OFF the zone lights to be Included.

**NOTES**
- **EXCLUDE E** works only when the panel is Disarmed.

- **EXCLUDE [User Code] E** works in any state.

- **EXCLUDE [User Code] E** can only exclude the zones in the Area assigned to that code.

# OPERATION

## Viewing the **EVENT MEMORY**

### by **KEYPAD**

Press (MEMORY) + (E)   (If the VIEW MEMORY SHORTCUT is enabled).

or press (MEMORY) + [USER CODE] + (E)

*The Memory light will turn on.*

> Press (MEMORY) ...The most recent event will be displayed.

> Press (MEMORY) ...The next most recent event will be displayed.

> Press (MEMORY) ...and so on, up to 30 events.

Press (E) to exit Memory Mode.

The panel stores a comprehensive event memory, including Arming, Disarming, Low Battery, Mains Fail and Alarm events.

The memory is constantly upgraded and the last 30 events are always available for viewing.

This memory display can only be selected while the panel is in the Disarmed state.

**TO CLEAR THE MEMORY LIGHT**
The MEMORY light flashes continuously when an alarm has occurred as a reminder to view the alarm memory. The MEMORY light stops flashing after the memory is viewed as shown above.

**The MEMORY light is automatically cleared next time the panel is Armed.**

OPERATION

When reviewing the event memory, the keypad lights will show the stored events as shown on this table.

| MEMORY MODE - EVENTS INDICATED BY KEYPAD LIGHTS: | |
|---|---|
| INDICATOR ON THE KEYPAD | MEMORY EVENT |
| Zone lights 1–8 or 1–16 | Zone alarm |
| (no lights) | Panel Disarmed |
| ARMED | Panel Armed (or Area 1 Armed) |
| ARM2 | Area 2 Armed |
| MAINS | Mains power failure |
| BATTERY | Low Battery |
| TAMPER | Tamper alarm (Siren cover, panel etc) |
| EXCLUDE | Panic alarm |
| LINE | Telephone line fail |
| RADIO, EXCLUDE | Radio Key Panic alarm |
| RADIO, BATTERY, ZONE | Radio Device battery low, (Device number is indicated by a zone light |
| RADIO, BATTERY, ARM | Radio Key battery low, (Radio Key number is NOT indicated) |
| RADIO, TAMPER, ZONE | Radio Device tamper alarm, (Device number indicated by a zone light) |
| (LCD Keypad) RADIO, MONITOR, ZONE (LED Keypad) RADIO, ZONE | Radio Supervision fail (Device number indicated by a zone light) |
| MONITOR, ZONE | Wired Zone Supervision fail (Zone indicated by a zone light) |

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# TEMPORARY DAY ZONES

The Ness D8x and D16x have a Temporary Day Zone feature which allows easy and flexible Day Zone selection and operation.

Temporary Day Zones operate in addition to Permanent Day Zones which are usually setup by the installer.

While remaining in normal operating mode, the user can add and remove 'Temporary Day Zones'.

As an extra feature, the user can easily enable or disable Day Mode, (which includes both Temporary and Permanent Day Zones).

Day Zones can be programmed by your installer to beep the keypad, or briefly sound the siren/s or flash the strobe light, or to sound an optional buzz er. (Although the keypad beeper provides sufficient warning in most situations).

**TYPICAL APPLICATIONS**
Day Zones are useful for a variety of applications such as a shop door beeper, triggered by a reed switch on the door.

For example, in a shop you could enable Day Mode to alert you when a customer enters the front door.

You can also enable additional Temporary Day Zones to monitor switches on, for example, the rear door or the fridge doors.

**COMMANDS**
(Accessed from normal operating mode).

ENTER SELECTION MODE.
$\boxed{P}$ + $\boxed{E}$

Press **P** followed by **E** when in operating mode to enter Temporary Day Zone selection mode.

ZONE SELECTION.
**[Zone No.]** + $\boxed{E}$

To select or deselect zones to be Temporary Day Zones. The selected zones are indicated by the corresponding zone number.

Permanent Day Zones, (installer option P53E), are not displayed in selection mode. Permanent Day Zones can be selected as Temporary Day Zones but this has no effect as those zones are already day zones.

EXIT SELECTION MODE.
$\boxed{E}$

Saves changes and returns to normal operating mode.

ENABLE DAY MODE.
$\boxed{0}$ + $\boxed{E}$

This enables/disables both Temporary and Permanent Day Zones.

When Day Mode is enabled, any unsealed day zone will sound the programmed output for 2 seconds. When Day Mode is disabled, an unsealed day zone will simply be indicated on the keypad as an unsealed zone.

(Note: The keypad does not indicate if Day Mode is enabled or disabled).

**EXAMPLE**
An example of how to select zones 1, 2 & 3 as Temporary Day Zones.

Note that Permanent Day Zones which have been programmed by the installer cannot be deselected by this method. However, the user can disable Day Mode using the **0**+**E** command.

**TO ENTER SELECTION MODE**

Press ( **P** ) + ( **E** )

The display will go blank.

**TO SELECT TEMPORARY DAY ZONES**
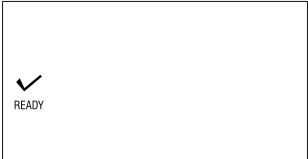Example, to select zones 1, 2 & 3.

Press ( **1** ) + ( **E** )
( **2** ) + ( **E** )
( **3** ) + ( **E** )

1   2   3

Zone icons 1,2 & 3 will be on.

**TO EXIT SELECTION MODE**

Press ( **E** )

✔
READY

The display will show the normal operating mode. (Various zone icons may be on or off depending on which detectors are sensing movement).

**TO ENABLE DAY MODE**
This command enables or disables Day Mode. This affects Permanent and Temporary Day Zones.

Press ( **0** ) + ( **E** )

✔
READY

The display will NOT indicate if Day Mode is enabled.

# REMOTE OPERATION

The D8x/D16x will allow a user to call in to the panel, using a standard DTMF telephone, and remotely Arm or Disarm all areas and also turn on or off Aux outputs 1, 2, 3 or 4.

To maintain panel security, remote operations can only be activated after entering a valid user code.

To operate the panel by telephone, you need a DTMF capable telephone, a valid user code and you must know the telephone number of the line to which the panel is connected.

**NOTES**
• If the panel does not receive commands for periods longer than 10 seconds it will assume that the call is finished and it will hang up.

• If an alarm occurs which requires the panel to dial out while attempting remote control, the panel will treat the alarm as a priority, give a constant tone as a warning and then hang up.

• When all remote control commands are finished press [∗] [#] to force the panel to hang up.
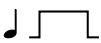
**SEQUENCE OF OPERATION.**
1. Phone the panel telephone number and listen for the required number of rings and then hang up.

2. Wait 10 seconds and then call the number again within 50 seconds.

3. The panel will answer the second call immediately, sound a beep for 2 seconds then, after a pause, it will sound a lower frequency tone. The panel is now ready to receive telephone commands.

4. Press the [0] button on the telephone. This tells the panel that telephone commands will follow. The panel will respond with either 3 beeps if all OK (One long beep means try again).

5. Now enter a valid User Code (that is normally used for Arming or Disarming the panel) followed by the [#] button.

   The panel will respond with 3 beeps if it recognises the code or 1 long beep to signal the code was invalid and to try again.

6. Enter the required command. See the summary of telephone commands on the next page.

7. Press [∗] [#] to finish. This tells the panel to hang up. Also hang up your telephone.

## AUDIBLE FEEDBACK

| ♪♪♪ 3 beeps | • The User Code is valid<br>• Successful Arming or Disarming<br>• An Auxiliary output has been turned ON. |
|---|---|
| ♪⎍ 1 long beep | • Panel is already Armed<br>• Invalid code. Try again. |
| ♪ 1 short beep | • An Auxiliary output has been turned OFF. |

## SUMMARY OF TELEPHONE COMMANDS

| 0 | Prepare to receive commands |
|---|---|
| 1 # | Arm Areas |
| 2 # | Disarm Areas |
| 3 # | Turn Aux 1 Output ON or OFF |
| 4 # | Turn Aux 2 Output ON or OFF |
| 5 # | Turn Aux 3 Output ON or OFF |
| 6 # | Turn Aux 4 Output ON or OFF |
| * # | Finished – hang up |

### EXAMPLE: ARMING THE PANEL BY TELEPHONE

1. Dial the panel telephone number. Listen for one double ring then hang up.

2. Wait 10 seconds, then dial the telephone number again.
*The panel will answer immediately and gives a 2 second beep followed by low tone.*

3. PRESS [0] To prepare the panel (♪♪♪ 3 beeps)

4. PRESS **[User Code]** [#] to authorise the next command (♪♪♪ 3 beeps)

5. PRESS [1] [#] to arm the panel (♪♪♪ 3 beeps)

6. PRESS [*] [#] to finish and hang up

# TROUBLESHOOTING

| SYMPTOM | POSSIBLE CAUSE | REMEDY |
|---------|----------------|--------|
| When arming, a zone light is on or the keypad gives a long beep. | One or more detection device (a PIR or reed switch) may be *unsealed.* | Find the cause of movement or close the door or window. |
| • 10 beeps from keypad.<br>• MAINS light is flashing.<br>• BATTERY light is flashing. | The mains power may be off, ...or the panel's backup battery may be low, ...or a Radio Device battery may be low. | Make sure the plug pack is plugged in and the power point is turned on. The backup battery may need replacing, call your installer. |
| 1 long beep from the keypad. | Invalid keypad entry. | Press the E button and try again. |
| 2 second siren at the end of Exit Delay time. | A zone was *unsealed* at the end of exit delay time. | Disarm the panel and check all zones. |
| The strobe light is flashing. | There has been an alarm within the last 72 hours. | Reset the alarm by disarming the panel and check the Alarm Memory |
| Siren sounds while the panel is disarmed. | A 24 hour zone has been alarmed. (Siren Tamper, Box Tamper, Panic Button). | Reset the alarm by disarming the panel and call your installer. |
| EXCLUDE light is flashing. | A zone/s has been Excluded. | This is to indicate that one or more zones have been Excluded. |
| Cannot arm and the EXCLUDE light is on steady. | You are in Exclude mode. | Press E to exit Exclude mode. |
| TAMPER light flashing | The 24 hour Tamper input has alarmed. (Siren tamper or box tamper). | Call your installer. |
| ALARM MEMORY light is flashing. | There are alarms in memory. | To clear the ALARM MEMORY light, view the Alarm memory otherwise the light will clear next time you arm the panel. |
| Cannot enter Program Mode. | The panel is armed.<br><br>Or you may be attempting to enter program mode using one of the user codes. | Disarm the panel before attempting to enter Program Mode.<br><br>Try again using the Master Code. |
| When I arm by radio key, the Armed light on the keypad does not turn on immediately. | The panel is waiting 5 seconds for a second press of the ON button to enter Monitor mode. | This is normal operation when arming of Monitor mode by radio key is enabled. |

# KEYPAD OPERATION SUMMARY

| | Operation by KEYPAD |
|---|---|
| **to ARM**<br><br>The panel must initially be disarmed. | Press (ARM) + (E)<br><br>(If the Arming Shortcut is enabled) |
| | or press (ARM) + [USER CODE] + (E) |
| | or press [USER CODE] + (E)<br><br>(If Code Only Arming has been enabled for that user code) |
| **to DISARM**<br><br>To disarm and/or reset alarms. | Press [USER CODE] + (E) |
| **to arm MONITOR MODE**<br><br>The panel must initially be disarmed.<br><br>See page 20 for more information on arming Monitor Mode. | Press (MONITOR) + (E)<br><br>(If the MONITOR SHORTCUT is enabled) |
| | or press (MONITOR) + [User Code] + (E) |
| **PANIC alarm** | Press both (*) (*) star keys together |
| | or press (*) + [USER CODE] + (E) |
| | or press (*) + (E)<br>(If KEYPAD PANIC SHORTCUT is enabled) |
| **KEYPAD DURESS**<br><br>Keypad Duress allows the user to send a silent duress report while disarming, (if the system is being monitored by a central station). | Press [5, 6, 8 OR 9] + [USER CODE] + (E)<br><br>Add one these digits in front of a user code when disarming.<br><br>This sequence will disarm the panel and send a Duress report by dialler to the central station.<br><br>(REPORT KEYPAD DURESS must be enabled) |
| **EXCLUDE ZONES**<br><br>EXCLUDE + E can only be used when the panel is disarmed.<br><br>EXCLUDE + CODE + E can be used anytime. | Press (EXCLUDE) + (E)  (If the EXCLUDE SHORTCUT is enabled)<br><br>then [ZONE NO.] + (E) [ZONE NO.] + (E)<br>(Enter the zone number/s to be excluded.)<br><br>then press (E) to exit Exclude mode<br><br>The Exclude light flashes constantly while zones are excluded. Excluded zones are automatically Included next time the panel is disarmed. |

\* If a user code is assigned to a radio key and has Extra Option 4E enabled, (CODE ONLY ARMING), then pressing OFF toggles the panel arm/disarm state.