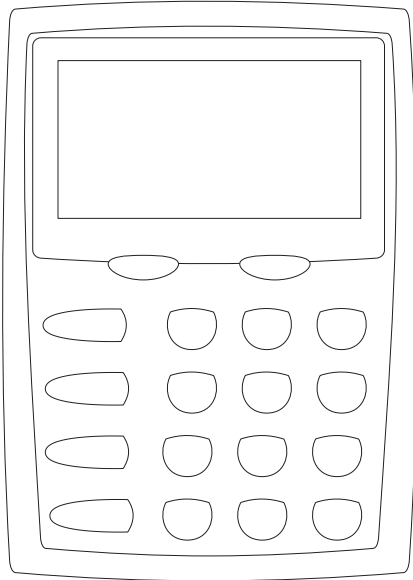


NESS D16

16 Zone Control Panel and Dialler



OWNER'S MANUAL

REVISION 2, JULY 2001



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designer and
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high quality security
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D16 USER MANUAL

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Specifications may change without notice.

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NESS D16 FEATURES

- 8 or 16 Fully programmable zones
- Any combination of 8 or 16 hardwire or radio zones
- Full radio supervision
- Contact ID Dialler Format
- Ultra-Modern and Impact resistant Housing
- Ness Audible Dialler Format
- "Follow Me" Audible Dialler Option
- Separate 24 Hour Tamper input
- Single or Double Trigger Zones
- Remote LCD Keypads (Max 3)
- Fully programmable via the system Keypad - Eliminates the need for expensive programmers or Proms.
- Inbuilt Vibration Sensor Analyser
- All programming data is permanently stored in a non-volatile EEPROM memory
- True Dynamic Battery Test every time the Panel is Armed / Disarmed and every hour
- Area Partitionable (2 Areas). Any Zone can be programmed to any area, as well as common areas
- Comes complete with an AC plug pack and supports a 12V 7Ah battery to maintain system security under all power supply conditions
- Monitor Mode (Home Mode)
- Outputs are separately fused with Automatic Reset Fuses
- Day Mode and Door Chime feature.
- Zone inputs can be split with two end-of-line resistors so that two detection devices (ie reed switches) can both be monitored to provide maximum security
- 30 Event Memory
- Supports 16 Radio Devices (Radio PIRs, Radio Reeds etc)
- Supports 14 Radio Keys
- All inputs and outputs are heavily protected against lightning and high voltage supply transients. An earth terminal is provided for extra protection
- 15 User Codes
- 'Arm only' codes can be programmed
- Programmable Inputs to activate selectable Outputs
- Designed utilising the latest SMD Technology
- Forced Arming Feature
- Simple to Program and Use.

The Ness D16 micro computer based 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 connected to the D16 control system directly by cabling or with optional wireless (Radio) devices.

Detection devices called **Passive Infra-Red Detectors** (or **P.I.R's** for short) can detect the movement of an intruder by sensing their body heat. **P.I.R's** are used to cover various critical areas of your premises where an intruder may enter or trespass. Another detection device used is called a **Reed Switch**. Reed Switches are attached to windows and doors to detect if a window or door has been opened. A Reed Switch consists of a magnet which is normally attached to the moving part of a window or door and the Reed switch which mounts to the door or window frame.

The panel is "**Armed**" when it is set to detect an intruder. At other times it is "**Disarmed**".

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 the panel to enable it to detect intruders and generate an alarm. After arming, the panel will ignore detectors during the **Exit Delay Time** to enable you to depart without triggering an alarm.

Arming the system may be done through the keypad or with the use of optional Radio Keys for

Arming by remote control from outside the premises.

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

Disarming the system may be done by keypad or with the use of optional Radio Keys.

Monitor mode allows selected zones to be Armed while leaving others Disarmed if you wish to protect a number of zones 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 a detector becomes faulty, you can **Exclude** the associated zone so that it is totally ignored and cannot generate an alarm. Including the zone will enable it to generate an alarm again.

The control panel is fitted with a **rechargeable stand-by 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**).

Whenever an alarm occurs, it may be silenced with a **User Code** or by optional Radio Keys, otherwise it will reset at the end of Alarm Reset Time.

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

KEYPAD

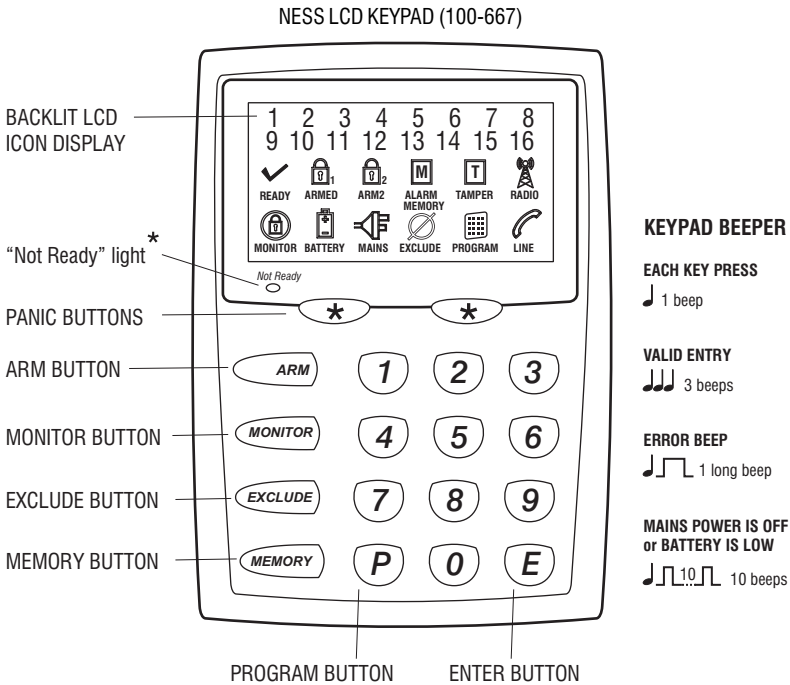
The Ness LCD keypad provides important visual and audible indication of the system status and is the main interface for controlling the many powerful features of the D16 system.

Information is displayed on a large LCD icon display which is backlit for easy night viewing.

DISPLAY TEST


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.



VISUAL INDICATORS

KEYPAD LIGHTS OPERATION NESS LCD KEYPAD (100-667)

LIGHT	○ OFF	● ON	 FLASHING
ZONES 1-16	Zone Sealed	Zone Unsealed	Zone Alarm
ARMED	Disarmed	System Armed (AREA 1)	
ARM2	Disarmed	System Armed (AREA 2)	
MONITOR	Disarmed	Monitor Mode	
MAINS	Normal		Mains Power Fail
BATTERY	Normal		Backup Battery is Low
MEMORY	Normal	Memory Mode selected	Alarms in memory
EXCLUDE	Normal	Exclude Mode selected	Zones Excluded
TAMPER	Normal	Tamper unsealed	Tamper Alarm
PROGRAM	Normal	Client Program Mode	
LINE	Normal	Dialler is transmitting	Phone line fault or Failure To Communicate
READY	<ul style="list-style-type: none"> • Zone unsealed or • Power Fault or • System Armed or • Phone line fault 	System is ready to Arm	
RADIO	Normal	In Memory Mode indicates that a Radio Key or other radio device has a low battery	Indicates that a Radio Key or other radio device has a low battery
NOT READY light	Ready to Arm	Not ready to Arm	

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 endeavour to cover the most common options.

Consult your installation company if you require further information.

All control panel operations are controlled by the D16 keypad except if an optional key switch or radio 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 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 to silence the alarm). This prevents anyone trying to guess your code by entering random numbers.

AREA OPERATION

Area Partitioning allows the 16 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.







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.


ARMING


1. The NOT READY light must be off
2. Press  [User Code]  
...or   
(If Arming Shortcut has been enabled by your installer)
...or by RADIO KEY, press the ON button
3. The ARMED light will turn on
 - Leave the premises within the Exit Delay Time
 - At the end of Exit Delay Time, 3 beeps will sound

The control panel must be Armed prior to vacating the premises in order to detect intruders. Ensure that the panel is not in Program, Memory or Exclude modes.

Note: If the panel is already in alarm, you must first silence the alarm before you can Arm.

If something is wrong when Arming the control panel, the normal 3 beeps will be replaced by other warnings.

 10 beeps means Mains Power is turned off or the Backup Battery is low.

 One long beep indicates an invalid entry or an alarm is outstanding and needs to be reset by entering your User Code first.


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 as a warning to indicate that those zones have been automatically excluded. For maximum security, you should return, Disarm, check the premises and then Arm again. Continual warnings could mean that a detector is faulty and may have to be manually excluded.

If the auto-exclude option is disabled, the siren will sound for the duration of reset time if a zone is Unsealed at the end of exit time.

DISARMING YOUR ALARM SYSTEM

DISARMING

1. Enter the protected premises via a delay zone
2. Press [User Code] (E) 
...or by RADIO KEY, press the OFF button
3. The ARMED light will turn off

When you enter the protected premises through a delay zone, the keypad responds with regular beeps* as a reminder to Disarm. You then have your programmed entry delay time to Disarm the panel by entering one of your user codes. 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 to flash the strobe light for two seconds as an indication that you have Disarmed your system.

If you make a mistake in entering your code, then you must press enter and start again. Five incorrect entries will cause an alarm.

* If Entry Beeps are programmed on.

RESETTING AN ALARM

1. Press [User Code] (E) 
...or by RADIO KEY, press the OFF button

Your panel can be reset and the alarm silenced by the same key sequence as Disarming the panel.

If you arrive at your premises and find the strobe light flashing (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.

MONITOR MODE

2. Press **MONITOR** [User Code] **E** 

...or **MONITOR** **E** 

(If Monitor Shortcut has been enabled by your installer)

...or by RADIO KEY, press the OFF button twice

(If Radio Key Monitor Arming has been enabled by your installer)

3. The MONITOR light will turn on

- Only the zones which have been programmed by your installer to be Monitor Zones will be Armed.

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.

The panel must be fully Disarmed before Arming 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.

By using the optional Radio Keys you can enter Monitor Mode by pressing the OFF button twice within 4 seconds. (Your installer must enable Radio Key Monitor Arming for this to work).

EMERGENCY FUNCTIONS

PANIC

1. Press ***** [User Code] **E**
...or ***** ***** together
(If Double Key Panic has been enabled by your installer)
...or ***** **E**
(If Panic Shortcut has been enabled by your installer)
...or by RADIO KEY, press and hold the PANIC button for 4 seconds

For personal protection, the keypad contains a PANIC feature which can be used to instantly trigger the alarm.

The PANIC function may have been programmed to be either:

AUDIBLE - activates siren or buzzers

or **SILENT** - If your system is monitored by a Central Station, sends a PANIC report by dialler. (If PANIC reports have been enabled by your installer).

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.

DURESS

1. Disarm by pressing **[5,6,8 or 9]** [User Code] **E**


A DURESS alarm can be triggered to alert the Central Station that you are being forced to Disarm the panel against your will.


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

DURESS alarms are only used if your system is monitored by a Central Station.

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

EXCLUDING ZONES

1. Press **EXCLUDE** [User Code] **E** 

...or **EXCLUDE** **E** 
(If Exclude Shortcut has been enabled by your installer)
2. (The EXCLUDE light will turn on)
3. Enter the zone number of the zone/s to be Excluded.
[ZONE NUMBER] **E** **[ZONE NUMBER]** **E** (Up to 16 zones)
The zone light of each Excluded zone will turn on
4. Press **E** to exit Exclude Mode
5. (The EXCLUDE light will flash continuously)

If a detector becomes faulty and cannot be Sealed when arming the panel, then its zone may 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 only be Excluded when the panel is Disarmed.


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 NUMBER]** **E** sequence to turn OFF the zone lights to be Included.

ALARM MEMORY

VIEW ALARM MEMORY

1. Press **MEMORY** [User Code] **E** 

...or **MEMORY** **E** 
(If View Memory Shortcut has been enabled by your installer)
2. Press **MEMORY** (The next 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)
3. Press **E** to exit Memory Mode
4. (The MEMORY light will stop flashing)

The D16 Control Panel stores a comprehensive Alarm Memory. The D16 will remember Arming, Disarming, Low Battery, Mains Fail and Alarms.

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.

MEMORY MODE - EVENTS INDICATED BY KEYPAD LIGHTS:

LIGHT

Zone lights 1-16
ARM
(no lights)
TAMPER
EXCLUDE
BATTERY
MAINS
RADIO, BATTERY, ZONE
RADIO, BATTERY, ARM

ALARM EVENT

Zone alarm
Panel Armed
Panel Disarmed
Tamper alarm (Siren cover, panel etc)
Panic alarm
Low Battery
Mains power failure
Radio Device battery low
Radio Key battery low

Various system options, as listed below, can be programmed by the user. These options can only be accessed from Program Mode.

User Codes may need to be re-programmed if a person has forgotten their code, to give a new user access to the system or to give someone temporary access.

User Codes 2-15 can be set as **Arm Only Codes**. These codes can Arm but cannot Disarm the panel. (Useful for assigning to cleaners, tradesmen etc.)

You may need to change the **Entry and Exit timers** if you find the delays are too long or short.

If Audible Monitoring is programmed by your

installer, the **'Follow Me' Telephone Number** is the telephone number the dialler will call in the event of an alarm.

If your Ness D16 panel is monitored by a Central Station, the Follow Me number is ignored.

For all other programming changes, talk to your installer.

The panel will automatically exit Program Mode is no buttons are pressed within a 4 minute period.

To enter Program Mode: (P) [MASTER CODE] (E)

To exit Program Mode: (P) then (E)

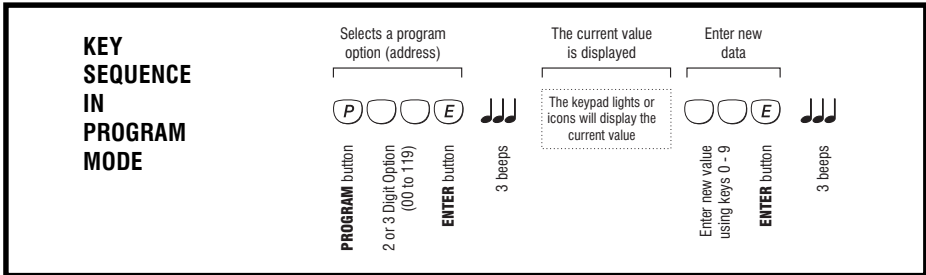
OPTION	OPTION No	FACTORY DEFAULT	RANGE	PROGRAMMED
User Code 1 (Master Code)	P11E	123	3 to 6 digits	
User Code 2	P12E		3 to 6 digits	
User Code 3	P13E		3 to 6 digits	
User Code 4	P14E		3 to 6 digits	
User Code 5	P15E		3 to 6 digits	
User Code 6	P16E		3 to 6 digits	
User Code 7	P17E		3 to 6 digits	
User Code 8	P18E		3 to 6 digits	
User Code 9	P19E		3 to 6 digits	
User Code 10	P20E		3 to 6 digits	
User Code 11	P21E		3 to 6 digits	
User Code 12	P22E		3 to 6 digits	
User Code 13	P23E		3 to 6 digits	
User Code 14	P24E		3 to 6 digits	
User Code 15	P25E		3 to 6 digits	
Entry Delay 1	P26E	20 seconds	1 to 99 sec	
Entry Delay 2	P27E	60 seconds	10 to 990 sec	
Exit Delay	P28E	60 seconds	1 to 99 sec	
Follow Me Telephone No.	P00E		Up to 15 digits	

NOTE: The Entry Delay 2 timer programs in 10 second intervals. Example: if a value of 6 is programmed, the time is 60 seconds.

PROGRAMMING

To enter Program Mode: (P) [MASTER CODE] (E)

To Exit Program Mode: (P) then (E)



WIRELESS PRODUCTS

RADIO ACCESSORIES

Ask your installer about the range Ness radio devices. for the optional extra convenience of wireless remote control and wireless detection.

Operating your Ness security system can be as convenient as opening your car door. The Ness Radio Key™ provides the benefits of separate ON, OFF and PANIC buttons in a slim, waterproof remote control.

* Ness radio products require a Ness Radio Interface (100-200) to be fitted to the control panel.



Part No.
100-001

NESS RADIO KEYPAD

A unique fully portable radio keypad. The Ness Radio Keypad provides totally wireless Arming/Disarming of the Ness D8, D16 & D24 control panels.

Also operates Monitor mode and Panic when used with the Ness D16, D24 panels.

The Ness radio Keypad is suitable for use as a portable keypad or for adding an extra keypad in areas where it is not possible to install wires.



Part No.
100-662

NESS RADIO REED SWITCH

Ness Radio Reed Switch for wireless door and window protection.



Part No.
100-664

NESS RADIO KEY 3 BUTTON

Fully waterproof, ultra slim 3 button Radio Key for remote control of the D16 control panel.

With separate buttons for ON (Arm), OFF (Disarm) and PANIC functions.

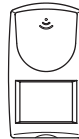


Part No.
100-665

NESS RADIO KEY PENDANT

Fully waterproof pendant style transmitter can be used as a portable wireless Panic button.

Supplied with a neckchain as well as wristwatch straps. Ideal for use as a medical alarm for the elderly or infirm. (Central Station Monitoring is especially recommended when used for medical alarm purposes).

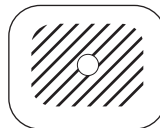


Part No.
100-663

NESS RADIO PIR

Ness Radio PIR (Passive Infrared) motion detector for wireless motion detection.

Can be used in combination with Ness hardwired detectors in areas where it is not possible to install wires.



Part No.
100-203

NESS RADIO SMOKE DETECTOR

Radio Smoke Detector using Ionisation smoke detection technology. With on board sounder. A single battery powers the smoke detector and the transmitter.

CENTRAL STATION MONITORING

The D16 control panel has an on-board digital dialler which can send detailed alarm messages to a Central Monitoring Station.

The digital messages can include information about the zone or zones which caused the alarm, tamper alarms, low battery or mains failure reports, and it can also (by user number) identify the users who Arm and Disarm the system.

Central Station Monitoring is highly recommended and is the most effective method of monitoring your D16 alarm system. For further information about 24 hour monitoring, contact your installer or Ness Security Products.

AUDIBLE MONITORING

The D16 can also be programmed to send audible messages to any telephone or mobile phone.

When programmed for audible monitoring, the D16 calls a pre-programmed number (or numbers) and sounds a series of beeps over the phone. These beeps can identify the zone or zones which caused the alarm and well as several other alarm types.

FOLLOW ME TELEPHONE NUMBER

Alarms are normally reported using the Primary and Secondary telephone numbers.* When Audible Monitoring is enabled, the Follow Me Telephone Number is available** and can be programmed in User Program mode.

See page 17 for information on programming the Follow Me Telephone Number.

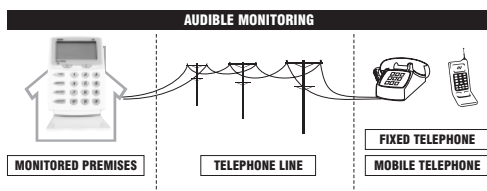
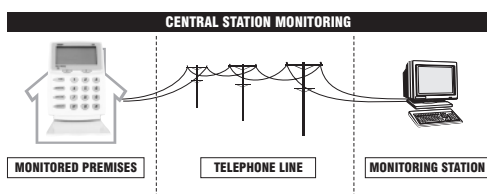
AUDIBLE MONITORING SEQUENCE

When triggered by an alarm, the D16 will dial the programmed telephone number/s and output the audible message for 45 seconds or until it is acknowledged.

ACKNOWLEDGING THE ALARM

The person receiving the call can then acknowledge the alarm by pressing the **#** key on their telephone. Press the **#** key for at least 2 seconds during pauses in the audible message.

If the alarm is not acknowledged, the keypad's LINE light will flash continuously until the panel is next Armed.



* The programming of Primary and Secondary phone numbers is an Installer Programming option.

** The Follow Me Telephone Number replaces the Primary AND Secondary telephone numbers.

REMOTE OPERATION

OPERATING THE D16 BY TELEPHONE

The D16 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 1 and Aux 2.

To ensure security of operation a user can only carry out remote operations after entering a valid user code.

REMOTE CONTROL FUNCTIONS NEED:

- A telephone with DTMF tones.
- A Valid User code programmed in the D16.
- The Telephone number that the D16 is connected to.

SEQUENCE OF OPERATION.


1. Phone the D16 telephone number and listen for the required number of rings (ring ring...ring ring) and then hang up.
2. Wait 10 seconds and then call the number again within 50 seconds.
3. The D16 will answer the second call immediately, sound a beep for 2 seconds then, after a pause, it will sound a lower frequency tone. The D16 is now ready to receive telephone commands.
4. Press the **[0]** button on the telephone. This tells the D16 that telephone commands will follow. The D16 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 D16) followed by the **[#]** button.

The D16 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: Summary Of Telephone Commands.
7. Press **[*]** **[#]** to finish. This tells the D16 to hang up. Also hang up your telephone.

AUDIBLE FEEDBACK

 3 BEEPS:

- The User Code is valid
- Successful Arming or Disarming
- An Auxiliary output has been turned ON.

 1 LONG BEEP:

- D16 is already Armed
- Invalid code. Try again.

 1 SHORT BEEP:

- An Auxiliary output has been turned OFF.

NOTES

- If the D16 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 D16 to dial out while attempting remote control, the D16 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 D16 to hang up.

EXAMPLE: ARMING THE D16 BY TELEPHONE

1. Dial D16 telephone number. Listen for 1 double ring then hang up.
2. Wait 10 seconds, then dial the D16 telephone number again.
3. The D16 answers immediately and gives a 2 second beep followed by low tone.
4. PRESS **[0]** To prepare the D16 (🔊🔊🔊 3 beeps)
5. PRESS **[User Code] [#]** to authorise the next command (🔊🔊🔊 3 beeps)
6. PRESS **[1] [#]** to Arm the panel (🔊🔊🔊 3 beeps)
7. PRESS **[*] [#]** to finish and hang up

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 |
| [*] [#] | Finished - hang up |

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	REMEDY
Zone light on or long beeps when Arming	One or more Zone Detection Devices (e.g., PIR, Reed Switch) may be Unsealed	Close door or window, find the cause of movement
10 beeps from keypad MAINS light flashing BATTERY light flashing	The mains power may be off. The backup battery may be low. A Radio Device battery may be low.	Make sure the plug pack is plugged in and the power point id turned on. Replace the backup battery. Call your installer.
1 long beep from keypad	Invalid keypad entry	Press 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
Strobe light is flashing	There has been an alarm	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 triggered. E.g, 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	
TAMPER light flashing	The 24 hour Tamper input has triggered	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. Only the Master Code can enter Program Mode.	Disarm the panel before attempting to enter Program Mode. Try again using the Master Code.

ALARMS, DEFINITION

Alarms may be caused by:

- A zone has been triggered while Armed
- A Tamper has been triggered
- A PANIC button has been triggered

All of these may cause your sirens and strobe to operate. Various visual indications relevant to the alarm will be retained in the memory. If this occurs, Disarming your control panel will reset the alarm. The cause of the alarm can be identified by entering the Alarm Memory Mode as described on page 14.



NESS D16 ALARM CONTROL PANEL

Date purchased:	Date installed:
Installation Company: _____	
Telephone: _____	
Monitoring Company: _____	
Telephone: _____	

ZONE LIST	DEVICE TYPE	DESCRIPTION
Zone 1		
Zone 2		
Zone 3		
Zone 4		
Zone 5		
Zone 6		
Zone 7		
Zone 8		
Zone 9		
Zone 10		
Zone 11		
Zone 12		
Zone 13		
Zone 14		
Zone 15		
Zone 16		

NOTES

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OPERATION SUMMARY

To ARM the system: **ARM** [User Code] **E**

...or **ARM** **E**

To DISARM or reset alarms: **[User Code]** **E**

To Arm MONITOR mode: **MONITOR** [User Code] **E**

...or **MONITOR** **E**

To exit MONITOR mode: **[User Code]** **E**

To EXCLUDE zones: **EXCLUDE** [User Code] **E**

...or **EXCLUDE** **E**

then: **[ZONE NUMBER]** **E** **[ZONE NUMBER]** **E** (Up to 16 zones)

To exit EXCLUDE mode: **E**

PANIC alarm: ***** [User Code] **E**

...or ***** **E**

...or ***** ***** together

To view MEMORY: **MEMORY** [User Code] **E**

...or **MEMORY** **E** **↓↓↓**

MEMORY (The next most recent event will be displayed)

Press **MEMORY**and so on (Up to 30 events)

To exit MEMORY mode: **E**
