



D8 XCEL 4G

D16 XCEL 4G



USER'S MANUAL



Ness SIM information,
see page 36.

D8XCEL & D16XCEL 4G panels with
KPX+ & Saturn+ LCD Keypads

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D8XCEL, D16XCEL 4G
USER'S MANUAL FOR LCD KEYPADS

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For use with Ness D8XCEL, D16XCEL control panels with 4G, V11.3 and later.

Related manuals:

890-498 D8/D16 XCEL 4G Navigator Keypad User Manual
890-490 D8/D16 XCEL 4G Installer's Manual

WARNINGS & NOTICES

Ness Corporation manufacturing processes are accredited to ISO9001 quality standards and all possible care and diligence has been applied during manufacture to ensure the reliable operation of this product. However there are various external factors that may impede or restrict the operation of this product in accordance with the product's specification.

These factors include, but are not limited to:

1. Erratic or reduced radio range (if radio accessories are installed). Ness radio products are sophisticated low power devices, however the presence of in-band radio signals, high power transmissions or interference caused by electrical appliances such as Mains Inverters, Wireless Routers, Cordless Phones, Computers, TVs and other electronic devices may reduce radio range performance. While such occurrences are unusual, they are possible. In this case it may be necessary to either increase the physical separation between the Ness receiver and other devices or if possible change the radio frequency or channel of the other devices.
2. Unauthorised tampering, physical damage, electrical interruptions such as mains failure, electrical spikes or lightning.
3. Solar power inverters are a known source of electrical interference. Please ensure that this product and all associated cabling is installed at least 3 metres away from a solar power inverter and its cabling.
4. While SMS reporting is a powerful and useful feature it is dependent on the integrity and availability of the cellular network. As with any SMS message it is possible that SMS monitoring reports may be delayed or fail to be delivered. Such failures are a function of the cellular network/s and beyond the control of Ness Corporation. Ness recommends central station monitoring as your primary monitoring path.
5. Ness recommends IP Protocol for most reliable back-to-base reporting. Contact ID (CID) is available as an option and should only be used if your central station does not offer IP protocols.

WARNING: Installation and maintenance to be performed only by qualified service personnel.

CAUTION: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries in accordance with local regulations.

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WHAT'S NEW IN D8XCEL / D16XCEL



- 4G Cellular communicator onboard
- Remote operation via the free NessXCEL app
- Operation via SMS messaging
- Programming via SMS
- Alarm reports via SMS or back-to-base
- Supplied with a Ness SIM or unlocked models available

ALL D8XCEL / D16XCEL FEATURES

- 8 or 16 alarm zones.
- Supports up to 3 keypads (Navigator, Saturn or LCD)
- 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 Two Area partitioning can split the panel into two independent areas plus a common area.
- Real Time Clock with AutoTime features - auto arm/disarm, auto aux outputs, time based user control.
- 3 Door Access Controller onboard with support for Weigand prox or fingerprint readers.
- Control via internet using Ness iComms/aComms iOS and Android apps and optional ethernet adapter.
- Voice alarm reports & Voice prompts for remote telephone operation.
- Home Mode allows partial arming, (eg, perimeter 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 and 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.
- Multiple programmable EOL resistor values from 0k to 22k (2k2 resistors supplied).
- Siren chirp and strobe flash on arming with radio key.
- Quiet chirps option on arm/disarm by radio key.
- True Dynamic Battery Test tests the battery under load every hour and when a keypad code is entered.
- 4 programmable auxiliary outputs (Up to 8 Aux outputs optional).
- Enhanced serial data input/output via RS232.
- Automatic reset fuses.
- Programmable Reset Output lockout.
- 30 event memory from KPX+ and Saturn keypads. 80 event memory via Navigator keypad or NessComms™*
- 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.
- High efficiency DC power supply.
- Optional output expander.

Communications

- 4G communicator
- Direct-connect upload/download option using NessComms™ software.*
- View system status and arm/disarm using NessComms™.
- Operation via SMS messaging
- Programming via SMS
- Alarm reports via SMS or back-to-base via IP protocols
- Remote operation via the free NessXCEL app

* NessComms software provides programming facilities locally via direct connect.
Optional 450-246 Serial Cable and 101-231 Serial-to-USB adapter cables are required.

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.

The control panel can be operated by keypad or by SMS (requires an active SIM card). You may also have optional Radio Keys or Access Control equipment installed.

OPERATING RULES

Generally, the panel will be Disarmed. Armed and Home modes provide different levels of security for your premises when you are home or away. 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, by SMS 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.

KEYPAD 'TAMPER' ALARM

If you make a mistake while entering your user code at the keypad, just press the E button and start again, however keep in mind that multiple incorrect attempts will trigger the alarm. Clear the alarm by entering a valid user code + E. See page 14

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 communicator. See page 10.

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.

HOME 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. See page 12.

MEMORY MODE allows you to review the last 30 events in memory. See page 16.

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 Home zones are independent of the area operations.

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

KEYPADS OVERVIEW









The instructions in this manual relate to Ness KPX+ and Saturn+ keypads. The KPX keypad is used in examples throughout this manual. Saturn keypad operation is identical.

Refer to the Ness Navigator user's manual for operating instructions specific to the Navigator Touch Screen keypad.



- 1 Panic Alarm. Press and hold the two emergency keys together for PANIC alarm. See page 13.
- 2 Fire Alarm. Press 1 and 3 keys together for FIRE alarm. See page 14 for details.
- 3 Medical Alarm. Press 4 and 6 keys together for Medical alarm. See page 14 for details.
- 4 Arm key. See page 10.
- 5 Home key. See page 12.
- 6 Exclude key. See page 15.
- 7 Memory key. See page 16.
- 8 P (Program) key. Also used to adjust Key Beep volume. See page 8.
- 9 0 key. Also used to adjust Chime volume. See page 8.
- 10 E (Enter) key. Also used for Display Test. See page 8.
- 11 9 key. Also used to adjust LCD backlighting. See page 8.

KEYPAD DISPLAY IN OPERATING MODE

DISPLAY	OFF	ON	FLASHING
ZONES 1-8 (or 1-16)	Zone is sealed.	Zone is unsealed.	Zone is in alarm.
OK TO ARM	Zone/s are unsealed OR Power fault OR Panel is armed	Ready to Arm	
1 ARMED	Panel is disarmed, or Area 1 is disarmed, if using Areas.	Panel is armed, or Area 1 is armed, if using Areas.	
2 ARMED	Area 2 is disarmed.	Area 2 is armed if using Areas.	
HOME	Home Mode is disarmed.	Panel is armed in Home Mode.	Day Mode enabled, (see page 17).
MEM	Normal.	Memory mode selected.	New alarm/s in memory.
	Normal.	Receiving a radio signal. (If radio fitted.)	A Radio Key or other radio device has low battery.
 TAMPER	Normal.		Internal Tamper: Double Flash with long pause. External Tamper: Steady flash.
 EXCLUDE	Normal.		Zone/s are Excluded.
 LOW	Normal.		The backup battery is low.
 OFF	Normal.		Mains power is off.
CELL and signal strength digits	<p>Cellular signal strength status - alternates with real time clock display. Signal strength range is 00 (no signal) to 30 (Best signal). Signal strength below 5 means the antenna should be checked or moved to a better reception area.</p> <p>The CELL icon can also indicate various cellular faults.</p> <ol style="list-style-type: none"> CELL with flashing signal strength  indicates the communicator is in use.  indicates a cellular communicator fault. CELL with flashing  indicates 'no SIM' Card is fitted. 		
TIME ¹	Real time clock display - alternates with cellular signal strength status.		
PROG	Normal.	User Program Mode.	Installer Program Mode.

¹ The onboard clock is automatically updated from your cellular network.
You should only need to adjust clock settings if the panel is being used 'offline' without a SIM card.


See page 16 for keypad indicators in Memory Mode.

KEYPAD BEEPS / SETTINGS

KEYPAD BEEPS	MEANING
♪ 1 BEEP	Any key press.
♪♪♪ 3 BEEPS	Valid Command.
♪ — ♪ 1 LONG BEEP	Error.
♪..10..♪ 10 BEEPS	Mains Power is off ...or Panel Battery is low ...or a Radio Device has sent a low battery signal
♪...♪...♪...♪ Constant SLOW beeps	An AutoTime action is due to begin.
♪.♪.♪.♪ Constant FAST beeps	An AutoTime action will begin in <i>one minute</i> .

KEYPAD SETTINGS

Beep/Chime Volume and LCD Brightness settings are stored in the keypad. Adjust each keypad individually. Defaults to loudest/highest settings on power down.



Adjust Key Beep Volume

Press and hold **P** to adjust key beep volume. Release when the desired volume is reached.

The volume level is displayed on the LCD during adjustment.

Adjust Chime Volume

Press and hold **0** to adjust Chime volume. Release when the desired volume is reached.

The volume level is displayed on the LCD during adjustment.

See Keypad Chime, page 17.

Adjust Backlighting

Press and hold **9** to adjust the brightness of the LCD and key backlighting. Release when the desired brightness is reached.

The brightness level is displayed on the LCD during adjustment.

Display Test

Press and hold **E** to display all the LCD keypad icons.

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



KEYPAD OPTIONS

NESS KPX LCD KEYPAD

The Ness KPX+ 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.



NESS SATURN+ KEYPAD

Proving that alarm keypads can be beautiful as well as functional - Saturn's elegant design adds a distinctive look and feel of luxury to your alarm system.

Available in White, Black and Ocean Mist colour, Saturn keypads are compatible with Ness D8/D16 control panels version 6 and later.



NESS RADIO KEYS

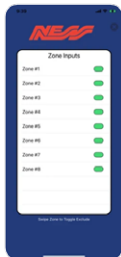
The optional Ness Radio Keys give you the convenience of remote control operation. Multi-button operation allows you to Arm, Disarm and activate PANIC and AUX outputs (RK4 radio key).



NESS ACCESS CONTROL

D8 and D16 panels 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 XCEL APP

Ness XCEL free app for iPhone or Android devices provides operation and control of your D8/D16 XCEL panel by SMS messaging. Arm, Disarm, activate Emergency alarms, control AUX outputs by SMS.

NOTE. XCEL app is an "SMS utility app" not an IP app and is subject to the limitations of operation by SMS.

The app does not require the optional ethernet kit but does require an active SIM card in the D8XCEL or D16XCEL 4G panel. iPhone/iPad/Smartphone not included.

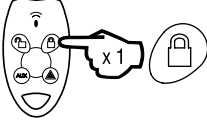


NESS iCOMMS and aCOMMS app for mobile control of your D8/D16XCEL control panel from home, office, anywhere in the world using your iPhone/iPad or Android device and an internet connection.

Requirements: Optional 101-244 Ethernet adapter, 450-246 RS232 cable. iPhone/iPad/Smartphone not included.

iComms is a third party product which is endorsed by Ness without tech support. Emergency alarms must be enabled in the control panel to be available in iComms.

Note: Radio Keys, Access cards and Readers are optional and are not supplied with any Ness control panel as standard. Ness radio products require the optional 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
<p>ALL KEYPADS</p> <p>Press ARM + E If the Arming Shortcut is enabled, P62E 5E</p> <p>or Press ARM + [UserCode] + E</p> <p>or [UserCode] + E</p> <p>If Code Only Arming has been enabled for that user code. Extra Option 4E</p> <p>SMS A[UserCode]E</p>	 <p>Press the ON button once. The strobe light will flash briefly.</p> <p>If programmed, the external siren will chirp once.</p> <p>(If Home Arming by Radio Key is enabled, the chirp will be delayed by 5 seconds).</p>	 <p>Present a Card or Fob twice.</p>  <p>Or, present a Card or Fob once + press button.</p> <p>Depending on which option has been enabled by your installer.</p>
<p>The ARMED icon will turn on. Leave the premises within the <i>Exit Delay Time</i>. 3 beeps will sound at the end of <i>Exit Delay Time</i>.</p>		

The control panel must be armed for the zones/sensors to be active.

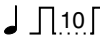
Before arming, all zones should be **Sealed** by making sure there is no movement in rooms protected by motion sensors. Doors or windows protected by reed switches should be closed.


The panel cannot be armed if in Program, Home, 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 Home Mode.

Your user code will arm and disarm the Area to which it is assigned. User Codes assigned to both Areas will operate both Areas simultaneously. All user codes are assigned to Area 1 by default.

A keypad is supplied with the panel. Operation by Radio keys, SMS and access cards is optional.

KEYPAD BEEPS

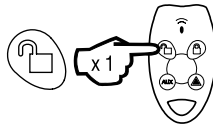

 10 beeps when you arm means Mains Power is turned off or the backup battery is low.

 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 the panel		
by KEYPAD	by RADIO KEY	by ACCESS CARD or FOB
<p>Enter the premises through a Delay Zone.</p> <p>ALL KEYPADS</p> <p>Press [UserCode] + E</p> <p>The ARMED icon will turn off.</p> <p>SMS [UserCode]E</p>	 <p>Press the OFF button once.</p> <p>The strobe light will flash briefly.</p> <p>If required, your installer can program the external siren to <i>chirp</i> 3 times when disarming.</p>	 <p>Present a Card or Fob once. (if the installer has enabled disarming by access card).</p>

When you enter the protected premises through a delay zone, the keypad responds with regular beeps¹ 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.

Using the optional radio keys you may disarm your system from within your premises or from outside your entrance door.

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

Disarming resets the panel and silences the sirens (if running).

If you arrive at your premises and find the strobe light flashing² (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.

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 28 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.

AUTO RE-ARM

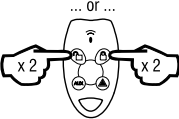
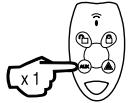
Your panel may optionally be programmed for Auto Re-Arm to help prevent accidental disarming.

Auto Re-Arm checks that you have entered the premises after disarming. If all zones remain sealed for a period as set by the entry delay time then the panel will re-arm. This is most useful when used with radio keys where the OFF button might be accidentally pressed after you have armed and are leaving the premises.

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.

OPERATION

to arm HOME Mode	
<p>by KEYPAD</p> <p>ALL KEYPADS</p> <p>Press HOME + E (If the Home Shortcut is enabled, P62E 3E) or Press HOME + [UserCode] + E</p> <p>SMS H[UserCode]E</p>	<p>by RADIO KEY</p> <p>Home Monitor arming by radio key must be enabled by your installer.</p>
	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>... Of ...</p>  <p>Press either the OFF button or the ON button twice within 4 seconds.</p> </div> <div style="text-align: center;">  <p>Or press the AUX button once. (If enabled, RK4 radio key only).</p> </div> </div>
	<p>The strobe light will flash briefly.</p> <p>If required, your installer can program the external siren to <i>chirp</i> twice when arming Home mode.</p>

Home 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 Home mode.

If an alarm occurs while in Home mode, entering [UserCode] + E will silence the alarm. This will also Disarm the panel, so remember to re-arm Home mode again if needed.

Using the optional Radio Keys you can enter Home 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: Home Mode and Area arming

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

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

- Area 1 must be OFF.
- Area 2 must be armed first, and then Home Mode armed – not the reverse.
- Zones assigned to both Home mode and to Area 2 will act as Home Mode zones when both Area 2 and Home Mode are armed.


Note: Home Mode arming when Area2 is armed cannot be done by Radio Key or by keyswitch.

PANIC alarm

by **KEYPAD**

ALL KEYPADS

Press    together

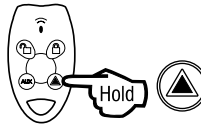
or  + [UserCode] + E

or  + E

(If Keypad Panic Shortcut is enabled, P62E 4E)

SMS S[UserCode]E

by **RADIO KEY**



Press and hold the PANIC button for at least 4 sec.

NOTE. Your panel may be programmed for **DOUBLE PRESS RADIO PANIC**.

To operate, press and hold the Panic button until the transmit LED turns on. Release the Panic button and immediately press and hold again until the transmit LED turns on a second time.

This requirement meets regulations in some states of Australia.

The keypad PANIC function may have been programmed to be either **AUDIBLE** to activate the sirens, or **SILENT** to send a PANIC report by 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**

ALL KEYPADS Press [5, 6, 8 or 9] + [UserCode] + E

Add one these digits in front of a user code when disarming.

This sequence will disarm the panel and send a Duress report if the system is monitored by a central station. This is a silent alarm with no indication at the keypad/s.

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**

ALL KEYPADS

Press **4 & 6** together

Sends a Medical Alarm report.

(If this option has been enabled by your installer and the system is monitored by a central station).

The Medical Alarm does not sound the sirens.

Keypad **FIRE** alarm

by **KEYPAD**

ALL KEYPADS

Press **1 & 3** together

Sounds the siren using the Fire Alarm sound.

(If Keypad Fire Alarm has been enabled by your installer).

And sends a Fire Alarm report.

(If this option has been enabled by your installer and the system is monitored by a central station).

KEYPAD 'TAMPER' ALARM

If you make a mistake while entering your user code at the keypad, just press the E button and start again, however keep in mind that multiple incorrect attempts will trigger the alarm.

A Keypad Tamper alarm is generated by 5 failed attempts to arm, disarm or any other command that requires entry of a user code - this is designed to prevent multiple attempts to guess a user code either at the keypad or by SMS

Keypad Tamper Alarm sounds the Siren, Strobe and Reset outputs. A Keypad Tamper report is sent to your central monitoring station or by SMS (if the option is enabled and monitoring is enabled and you have an active SIM card).

Clear the alarm by entering a valid user code + E

How to **EXCLUDE** zones

by **KEYPAD**

ALL KEYPADS

Press **EXCLUDE + E** (If the Exclude Shortcut is enabled)

then press **[ZoneNumber] + E [ZoneNumber] + E** (Enter the zone number/s to be excluded.)

then press **E** to exit Exclude mode.

SMS X[UserCode]E [ZoneNumber]E [ZoneNumber]E

The Exclude icon flashes constantly while zones are excluded. Excluded zones are automatically included on disarming.

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 zones to be Included.

NOTES

- **EXCLUDE + E** works only when the panel is Disarmed.
- **EXCLUDE + [UserCode] + E** works in any state.

Note that this method can only exclude the zones in the Area assigned to that code.

OPERATION

Viewing the **EVENT MEMORY**

by **KEYPAD**

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

or Press MEMORY + [UserCode] + E *The Memory icon 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.

SMS M[UserCode]E [Number of events]E

For example to request the history of the last 5 events, send M[UserCode]E 5E

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

The memory is constantly updated 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 ICON

The MEM light flashes continuously when an alarm has occurred as a reminder to view the alarm memory.

The MEM icon stops flashing after the memory is viewed as shown above and is automatically cleared next time the panel is Armed.

KEYPAD DISPLAY INDICATORS IN MEMORY MODE

KEYPAD ICON	MEMORY EVENT
Zone numbers 1–8 or 1–16	Zone alarm
(no icons displayed)	Panel Disarmed
ARMED	Panel Armed (or Area 1 Armed)
ARM2	Area 2 Armed
MAINS	Mains power failure
BATTERY	Low Battery
TAMPER + 1	Internal Tamper alarm
TAMPER + 2	External Tamper alarm
EXCLUDE + 1	Panic alarm
EXCLUDE + 2	Medical alarm
EXCLUDE + 3	Fire alarm
RADIO, EXCLUDE	Radio Key Panic alarm
RADIO, BATTERY, ZONE	Radio Device battery low, (Device number is indicated by zone lights)
RADIO, BATTERY, ARM	Radio Key battery low, (Radio Key number is NOT indicated)
RADIO, TAMPER, ZONE	Radio Device tamper alarm (Device number is indicated by zone lights)
RADIO, HOME, ZONE	Radio Supervision alarm (Device number is indicated by zone lights)
HOME, ZONE	Wired Zone Supervision alarm (Zone number is indicated by zone lights)

TEMPORARY DAY ZONES

The Ness D8XCEL and D16XCEL 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 buzzer. (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.

KEYPAD CHIME

The KPX keypad has a special two tone chime which can be enabled in place of the default beep warning tone. See option P126E 4E in the installer manual.

COMMANDS

Accessed from normal operating mode.
Examples using the KPX+ keypad.

Enter Selection Mode.

(P) + (E)

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

Zone Selection.

[Zone No.] + (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.

(E)


Saves changes and returns to normal operating mode.

Enable Day Mode.

(O) + (E)

This enables/disables both Temporary and Permanent Day Zones.

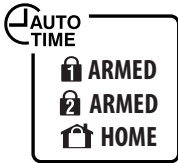
When Day Mode is enabled, any unsealed day zone will sound the programmed output for 2 seconds. When Day Mode is disabled, an unsealed day zone will simply be indicated on the keypad as an unsealed zone.

 The HOME icon flashes continuously when Temporary Day Mode is enabled.

OPERATION

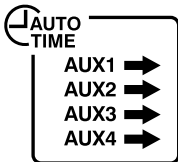
AUTO-TIME FEATURES

D8XCEL/D16XCEL have sophisticated automation features making full use of the onboard Real Time Clock and a set of powerful yet simple to program options.

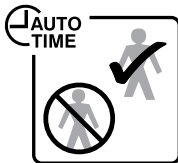


ARM or DISARM AUTOMATICALLY at pre-programmed times of day or day of the week.

This feature can save a site manager many headaches and hours of travel time. There is no need to rely on staff remembering to arm or disarm the system.



TURN AUX OUTPUTS ON or OFF at pre-programmed times - every day, once a week, anytime. Automate doors, sprinkler systems, lights and more.



ENABLE/DISABLE USER CODES depending on the time of day or day of the week. Allows managers to grant users access to the system at selected times and deny after hours entry.

(This applies to keypad codes only, not radio keys or prox fobs.)



If you find that the panel sometimes does not respond to user codes, or the panel arms or disarms itself or auxiliary outputs turn on automatically - then your panel may have been programmed for AutoTime events.

Ask your install to check the installer-level programming settings and reprogram the system to suit your needs.

AUTO-TIME OPERATION

WARNING PERIOD (Optional function - must be enabled by your installer.)

When an AutoTime event is about to begin, your keypad (or keypads) will begin a constant slow beep as a warning that the automatic event is about to happen. The warning beeps can be programmed to start up to 99 minutes prior to the AutoTime event.

Press any key on the keypad to stop the beeps during the warning period. The beeps will start again for the final minute at a faster rate.

FINAL MINUTE BEEPS. In the last minute prior to the AutoTime event, the keypad will beep at a faster rate to warn that the event is about to start.

TO DELAY THE AUTOTIME EVENT (Optional function - must be enabled by your installer.)

To delay the AutoTime event, enter a valid user code on its own. (The user code must be assigned to an Area to work). This will suspend the warning beeps and the AutoTime event for 1 hour - when the warning process will start again.









Example: Your panel is programmed to Auto Arm at 6pm every weekday and the Warning Period is programmed for 5 minutes. You are working back late and at 5:55pm your keypad begins to beep. Since you're not ready to arm the system yet, enter your user code (without pressing E) at the keypad. The warning beeps will stop and arming will be delayed by one hour. At 6:55pm the warning beeps will start again, followed by automatic arming if you don't delay the event again.


Any AutoTime event can be postponed, not just arming. You can also delay the automatic turn (or off) of one of the AUX outputs in the same manner.

OPERATION

MANUAL OPERATION OF THE AUX OUTPUTS (Optional function - must be enabled by your installer.)

As well as automatic operation by Auto Time, the auxiliary outputs can also be operated manually by keypad. Use the keypad commands below to turn outputs on or off or pulse on¹.

	To turn ON or PULSE	To turn OFF
AUX1		
AUX2		
AUX3		
AUX4		

 Manual operation of outputs works in conjunction with AutoTime schedules, if programmed. For example, if AutoTime has turned an output on as scheduled (say, a light) you can manually turn it off (and back on again) any time you wish. At the scheduled turn OFF time, if the output is still on it will be turned off.

¹ Whether an output "Pulses" or "Turns On" depends on the how that output has been programmed by your installer.

OPERATING THE AUX OUTPUTS BY SMS

(Optional function - must be enabled by your installer.)

The auxiliary outputs can also be operated by SMS Messaging.

SMS [UserCode]E[AuxNumber]E

Note, via SMS enter the Aux output numbers as double digits. For example to turn on Aux1 send [UserCode]E11E (therefore Aux2 is 22, Aux3 is 33 etc.)

NOTE FOR INSTALLERS – USER CODES FOR OPERATING AUX OUTPUTS BY SMS

It is recommended that Aux outputs be remotely operated by separate user codes which are not assigned to any Area. That is, do not use your normal operating user code/s. This is to avoid the possibility of inadvertently disarming the panel by an SMS 'Aux' command.

Example. How to set up AUX1 for operation by SMS (see the related options for Aux2, 3, 4)

1. Enable P141E 4E Keypad toggle Aux1
2. Program a new user code, eg. P210E user code 10 = 9876
3. Remove user code 10 from Area 1
4. To operate Aux1 by SMS, send 9876E11ON or 9876E11OFF



D8XCEL and D16XCEL control panels can be operated and programmed by SMS (TXT) messaging from any mobile phone.

This section covers programming by direct SMS messaging from a mobile phone.

SMS COMMANDS

COMMAND	OPERATION
A	ARM
H	HOME
X	EXCLUDE
P	PROGRAM ¹
E	ENTER
F	FIRE
D	MEDICAL
S	PANIC
11E ~ 88E	OPERATE AUX OUTPUTS
T	TEXT ²

¹ See page 33

² See page 34 and the Installer Manual for detail

SMS commands are extremely flexible in their format.

USE OF SPACES

The panel automatically ignores spaces in SMS programming commands. However, spaces are important in Text Output commands, see page 34.

UPPER or LOWER CASE is ok

You can use either UPPER CASE or lower case characters in your messages, or even mixed case without a problem.

COMMAS

Commas are used to separate words when reprogramming text output, so use commas only when the command allows it.

MULTIPLE COMMANDS

You can send multiple programming commands in one text message. See the Installer Manual for detailed instructions.

ACK (Acknowledged)

ACK is the panel saying 'I have received the command and applied it'.

NAK (Not Acknowledged)

The 'NAK' response indicates that the command was not accepted by the panel. Check the format of your SMS or perhaps the command should have been sent in Installer program mode.

SMS RESPONSES

SMS IS RECEIVED FROM A KNOWN PHONE NUMBER (one of the phone numbers programmed at P180E~P189E)

- The panel will respond to any SMS command from a known phone number.
- A correctly formatted command will be actioned and replied with ACK (Acknowledged).
- If you send an incorrectly formatted SMS or the wrong user code the panel responds with NAK (Not ACK).

SMS IS RECEIVED FROM AN UNKNOWN PHONE NUMBER

- If the user code is valid the panel will action the command and reply.
- If the user code is not valid the panel will ignore the command and reply with the message "The SMS just received is wrong. No further responses until correct SMS received"
- The panel ignores further attempts to operate it with an invalid user code.
- Once a correct command with a valid user code is received the panel will action and reply.
- If the valid user code is not the master user code, but the command requires the master code then the reply is "wrong message"

SMS OPERATION

SUMMARY OF SMS OPERATING COMMANDS. The following examples use the default Master Code of 123 just as an example. Substitute your own valid user code/s in operation.

OPERATION	SMS TO THE PANEL	SMS REPLY
ARM	A123E	<p>A123E ACK arming status: AREA 1 ARMED IN EXIT DELAY zones unsealed: NONE zones in alarm: NONE zones excluded: NONE outputs status: ALL OFF</p> <p>Any unsealed zones, zones in alarm and excluded zones will listed as ZONE [x] or by name if named.</p>
DISARM	123E	<p>123E ACK [plus zones and outputs status as per arming response above]</p>
HOME mode	H123E	<p>H123E ACK arming status: AREA 1 ARMED IN EXIT DELAY [plus zones and outputs status as per arming response above]</p>
EXCLUDE zones (Example zones 4 & 5)	X123E4E5E	<p>X123E ACK 4E ACK 5E ACK E ACK zones excluded: ZONE 4 ZONE 5</p>
FIRE alarm ¹ (Triggers the Fire Alarm, if enabled)	F123E	<p>F123E ACK</p>
MEDICAL alarm ² (Triggers Medical Alarm, if enabled)	D123E	<p>D123E ACK</p>
PANIC alarm ³ (Triggers Panic Alarm, if enabled)	S123E	<p>S123E ACK</p>
Operate AUX outputs, eg Aux1 (if enabled for use) (Aux2 is 22, Aux3 is 33 etc)	C123E11ON	<p>11* ACK auxiliary outputs on: AUX1</p>
	C123E11OFF	<p>11# ACK auxiliary outputs on: ALL OFF [or the Aux number/s if any are on]</p>

¹ The FIRE alarm sounds the siren using the FIRE siren sound and sends a fire report if programmed.

² The MEDICAL alarm triggers the strobe light if programmed and sends a medical report if programmed.

³ The PANIC alarm triggers the sirens and strobe if programmed.

CHANGING TEXT OUTPUT

D8XCEL and D16XCEL have an extensive library of text descriptions used in SMS messaging, and also give the user the ability to customise the text output to suit individual needs.

For example, the default text sent for a zone alarm is:

NESS security report
 from LOCATION
 ALARM ZONE 3 AREA 1
 Tue 7 Aug 2018 4:07:22pm 1/1

XCEL allows most words in this message to be modified.

Let's say you want to customise the panel's name and rename zone 3.

The panel name is set by the text output named LOCATION and the zone name by the text ZONE 3. (See the table, page 24).

To rename LOCATION and ZONE 3:

SMS SENT TO THE PANEL	SMS REPLY
<p>T123E,LCN, MYHOME, Z3, Z3 RUMPUS</p>	<p>text report changes made LOCATION,MYHOME, ZONE 3, Z3 RUMPUS 1/1</p>

SMS alarm reports will then appear as:

NESS SECURITY REPORT
 from MYHOME
 ALARM Z3 RUMPUS AREA 1
 Tue 7 Aug 2018 4:07:22pm 1/1

Using the same method every word and phrase in the SMS message can be renamed. Refer to the text table on page 24

Refer to the Installation Manual for further detail.

SMS OPERATION

TEXT OUTPUT TABLE

Library of available SMS text names. Each can be renamed using the instructions on page 23

Default NAME (Shortcut NAME)*	Navigator Installer Information Screen	Your data
INSTALLER NAME 1 (IN1)	Name	
INSTALLER COMPANY 1 (IC1)	Company	
INSTALLER ADDRESS 1 (IA1)	Address Line 1	
INSTALLER ADDRESS 3 (IA3)	Address Line 2	
INSTALLER TEL NO 1 (IT1)	Phone	
INSTALLER MOBILE 1 (IM1)	Mobile	
INSTALLER EMAIL 1 (IE1)	Email	

Default NAME (Shortcut NAME)*	RENAME
LOCATION (LCN)	
USER 1 (U1)	
USER 2 (U2)	
USER 3 (U3)	
USER 4 (U4)	
USER 5 (U5)	
USER 6 (U6)	
USER 7 (U7)	
USER 8 (U8)	
USER 9 (U9)	
USER 10 (U11)	
USER 11 (U11)	
USER 12 (U12)	
USER 13 (U13)	
USER 14 (U14)	
USER 15 (U15)	
USER 16 (U16)	
USER 17 (U17)	
USER 18 (U18) ... to User 56 (U56)	

Default NAME (Shortcut NAME)*	RENAME
ZONE 1 (Z1)	
ZONE 2 (Z2)	
ZONE 3 (Z3)	
ZONE 4 (Z4)	
ZONE 5 (Z5)	
ZONE 6 (Z6)	
ZONE 7 (Z7)	
ZONE 8 (Z8)	
ZONE 9 (Z9)	
ZONE 10 (Z10) ... to Zone 16 (Z16)	
AUX1 (X1)	
AUX2 (X2)	
AUX3 (X3)	
AUX4 (X4)	
DOOR 1 (D1)	
DOOR 2 (D2)	
DOOR 3 (D3)	

*Shortcut names are provided for simplified programming by SMS. (Omit the brackets). See page 23 Changing Text Output

Programming your Ness D8XCEL or D16XCEL is a simple process using the keypad, NESS XCEL app or by direct SMS from your phone.

When programming you need to know your Master Code, which is user code number 1, (see the table on page 27).

Examples use the KPX+ keypad.

TO ENTER PROGRAM MODE
press (P) + [MASTER CODE] + (E)

The factory default
Master Code is: **123**

TO EXIT PROGRAM MODE
press (P) + (E)
The panel will automatically exit Program Mode if the keypad is inactive for 4 minutes.

USER CODES

The panel has 56 user codes which can be operated by keypad code (3-6 digit PIN), by optional radio key or by optional access cards.

To add, change or delete a keypad code, follow the steps on page 28.

The factory default Master Code is 123. You should re-program this code with a new code of your own choice.

TIMERS

You can also re-program the Entry Delay Time and Exit Delay Time if you need more or less time to exit and enter the premises.

REAL TIME CLOCK

Some features such as AutoTime rely on the onboard Real Time Clock.

The onboard clock is automatically updated from your cellular network.

You should only need to adjust clock settings if the panel is being used 'offline' without a SIM card

If the clock is manually set you will need to adjust the Hours setting for Daylight Savings.

TELEPHONE NUMBERS

If you are self-monitoring your system by SMS messaging you can program up to 3 mobile phone numbers to receive alarm events by SMS and 2 phone numbers to receive open/close reports.

If your system is programmed to report alarms to a central monitoring station the panel will report to the reporting numbers (or IP address) programmed by your installer.

For all other programming changes, talk to your installer.

Note: SMS and central station monitoring requires an active SIM card.

PROGRAMMING BY SMS



This section covers programming by direct SMS messaging from a mobile phone.

PROGRAMMING BY SMS FROM A SMARTPHONE

SMS programming commands are sent to the XCEL panel in essentially the same format as programming using a KPX+ or Saturn+ keypad.

Examples using the factory default master code: 123

EXAMPLE 1	
Program the Entry Delay time to be 15 seconds	
SMS SENT TO THE PANEL	SMS REPLY
P123E P26E 15E	M123E ACK M26E ACK 15E ACK ME ACK

This string of commands breaks down into easy to understand parts, where...

P123E

Enters user program mode. 123 in this case is the Master code.

P26E

The option number for Entry Delay

15E

Programs Entry Delay to be 15 seconds

EXAMPLE 2	
Program User Code 2 to be 5678.	
SMS SENT TO THE PANEL	SMS REPLY
P123E P202E 5678E 5678E	M123E ACK M202E ACK 5678E ACK 5678E ACK ME ACK

PROGRAMMING OPTIONS TABLE

User No.	Option No.	Default	User No.	Option No.	Default	User No.	Option No.	Default
1 Master Code	P201E	123	20	P220E		39	P239E	
2	P202E		21	P221E		40	P240E	
3	P203E		22	P222E		41	P241E	
4	P204E		23	P223E		42	P242E	
5	P205E		24	P224E		43	P243E	
6	P206E		25	P225E		44	P244E	
7	P207E		26	P226E		45	P245E	
8	P208E		27	P227E		46	P246E	
9	P209E		28	P228E		47	P247E	
10	P210E		29	P229E		48	P248E	
11	P211E		30	P230E		49	P249E	
12	P212E		31	P231E		50	P250E	
13	P213E		32	P232E		51	P251E	
14	P214E		33	P233E		52	P252E	
15	P215E		34	P234E		53	P253E	
16	P216E		35	P235E		54	P254E	
17	P217E		36	P236E		55	P255E	
18	P218E		37	P237E		56	P256E	
19	P219E		38	P238E				

Option no.	Description	Default	Comment
P26E	Entry Delay Time 1	20 (20 sec)	
P27E	Entry Delay Time 2	6 (60 sec)	This option works in multiples of 10. (6 = 60 sec).
P28E	Exit Delay Time	60 (60 sec)	

Phone Number	Option no.	Record your numbers
Ph No 1 for SMS alarm reports & programming	P180E	
Ph No 2 for SMS alarm reports & programming	P181E	
Ph No 3 for SMS alarm reports & programming	P182E	
Ph No 4 for SMS Area 1 Open/Close reports only	P183E	
Ph No 5 for SMS Area 2 Open/Close reports only [#]	P184E	
Ph No 6 for for SMS operation*	P185E	
Ph No 7 for for SMS operation*	P186E	
Ph No 8 for for SMS operation*	P187E	
Ph No 9 for for SMS operation*	P188E	
Ph No 10 for for SMS operation*	P189E	


[#] Phone number 5 for Area 2 Open/Close reports is available in firmware Rev10.8 and later.

*Phone Numbers 6 to 10 are used for the panel to recognise "Known" phone numbers and reply appropriately to operation and programming commands. These numbers do not receive any SMS alarm reports.

Note 1. Phone numbers 6 to 10 are not essential if the phone sending SMS commands is programmed in one of Phone Numbers 1 to 5.

Note 2. The panel will respond to a valid command from any mobile phone number, not just the numbers programmed. However, "Unknown" phone numbers will not get replies to invalid messages.

PROGRAMMING BY KEYPAD

Programming USER CODES			
STEP	KEYSTROKES	DESCRIPTION	COMMENT
1	$\textcircled{P} + [\text{MASTER CODE}] + \textcircled{E}$	Enters User Program Mode.	The Program light will turn on.
2	$\textcircled{P} + [\text{OPTION No.}] + \textcircled{E}$	Enter the 3 digit option number for the user code being programmed.	The existing user code, if any, will be displayed by the keypad one digit at a time.
3	$[\text{NEW CODE}] + \textcircled{E}$ $[\text{NEW CODE}] + \textcircled{E}$	Enter the new user code twice for verification. Keypad codes can be 3-6 digits long. <div style="border: 1px solid black; padding: 2px; display: inline-block;">  User codes must NOT start with zero! </div>	The new user code will be displayed by the keypad one digit at a time.
4	$\textcircled{P} + \textcircled{E}$	To exit User Program Mode.	The Program light will turn off.

A keypad code can be deleted by pressing $\textcircled{\text{MEMORY}} + \textcircled{E}$ at STEP 3 above.

i A keypad code only needs to be deleted if you're not replacing it with a new code.

EXAMPLES


The panel must be in program mode.

- To program User Code 1 to be 1234: Press P201E 1234 E 1234 E
- To delete User Code 2 without programming a new code: P202E MEMORY E

USER CODE PROGRAMMING RULES

- Up to 56 Keypad Codes can be used at up to 3 wired keypads for controlling all panel functions including Arming/Disarming, Home Mode, Panic, memory recall and much more.
- Keypad Codes can be 3 to 6 digits in length and can be individually programmed and deleted.
- User Code 1 is also the Master Code which is used to enter Client Program mode.
- All 56 User Codes are Keypad Codes by default. User Codes can be programmed to be Radio Codes or Access Cards as required. Ask your installer.

NOTES

1.  **User codes must NOT start with zero.** (The panel will allow codes beginning with zero to be programmed but they will not operate the panel. This is an alternative method for disabling user codes.)
2. All codes must be unique to each other. Codes are rejected if already used. Some codes that are similar to existing codes may also be rejected.
3. When re-programming a Keypad Code, the old code does not need to be deleted first. The new code will overwrite the old code.

Programming TIMERS			
STEP	KEYSTROKES	DESCRIPTION	COMMENT
1	$(P) + [MASTER CODE] + (E)$	Enters User Program Mode.	The Program light will turn on.
2	$(P) + (2)(6) + (E)$...or $(P) + (2)(7) + (E)$...or $(P) + (2)(8) + (E)$	Enter the option number for Entry Delay Time 1. Or enter the option number for Entry Delay Time 2. Or enter the option number for Exit Delay Time.	The existing time, if any, will be displayed by the keypad one digit at a time.
3	$[NEW TIME] + (E)$	Enter the new time in seconds. Example, enter 25 seconds as 25 + E.	The new time will be displayed by the keypad one digit at a time.
4	$(P) + (E)$	To exit User Program Mode.	The Program light will turn off.

Factory default timer settings are listed on page 27.

Programming the SMS TELEPHONE NUMBERS			
STEP	KEYSTROKES	DESCRIPTION	COMMENT
1	$(P) + [MASTER CODE] + (E)$	Enters User Program Mode.	The Program light will turn on.
2	$(P) + (1)(8)(0) + (E)$	Enter the option number for the first telephone number for SMS reporting.	The existing telephone number, if any, will be displayed by the keypad one digit at a time.
3	$[NEW TELEPHONE NUMBER] + (E)$	Enter the new telephone number.	The new telephone number, if any, will be displayed by the keypad one digit at a time.
4	$(P) + (E)$	To exit User Program Mode.	The Program light will turn off.

D8XCEL & D16XCEL supports up to 3 user-programmable phone numbers for SMS reporting of alarm events and 2 phone numbers for open/close reports by SMS messaging. See page 27 for program option numbers.

PROGRAMMING BY KEYPAD

Programming the CLOCK			
STEP	KEYSTROKES	DESCRIPTION	COMMENT
1	$\textcircled{P} + [\text{MASTER CODE}] + \textcircled{E}$	Enters User Program Mode.	The Program light will turn on.
2	$\textcircled{P} + \textcircled{} \textcircled{} \textcircled{} + \textcircled{E}$ P340E MINUTES. Enter a value between 00 and 59. P341E HOURS. Enter a value between 00 and 23. P342E DAY OF THE MONTH. Enter a value between 01 and 31. Ensure that the setting does not exceed the days in the current month. The panel does not cross-check this setting. P343E MONTH. Enter a value between 01 and 12. P344E YEAR. Enter a value between 00 and 63. (2000–2063). P345E DAY OF THE WEEK. Enter a value between 1 and 7. (1=Sunday).	Enter the option number for one of the real Time Clock options.	The existing value, if any, will be displayed by the keypad one digit at a time.
3	$[\text{NEW VALUE}] + \textcircled{E}$	Enter the new time in seconds. Example, enter 25 seconds as 25 + E.	The new time will be displayed by the keypad one digit at a time.
4	$\textcircled{P} + \textcircled{E}$	To exit User Program Mode.	The Program light will turn off.

The onboard clock is automatically updated from your cellular network.

You should only need to adjust clock settings if the panel is being used 'offline' without a SIM card

If the clock is manually set you will need to adjust the Hours setting for Daylight Savings.

CENTRAL STATION MONITORING



Ness XCEL control panels have an on-board cellular communicator which can send detailed alarm messages to a Central Monitoring Station via IP protocols.

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 alarm system.

For further information about 24 hour monitoring, contact your installer or Ness Corporation.

SMS SELF-MONITORING



An active SIM card is required for SMS operations.

SMS 'Self-monitoring' reports can be programmed to be sent by the panel to your mobile phone.

Monitoring messages can include Arm/disarm reports by Area and User, Zone alarms and Restorals, System Alarms such as AC Fail and Low Battery, Panic alarms.

SMS REPORTING MESSAGE FORMAT

Example 1 - Alarm from Zone 3

```
NESS security report
from MYPANEL
ALARM Z3 RUMPUS AREA 1
Tue 7 Aug 2018 4:07:22pm 1/1
```

SMS MESSAGE EXPLAINER

NESS security report Identifies the message as a Ness alarm panel report.

MYPANEL identifies the premises. This ID can be programmed by SMS using the LOCATION command. See page 23.

ALARM Tells us there has been an alarm

Z3 RUMPUS What caused the alarm. In this case Zone 3 which has been renamed RUMPUS. (The zone name can be programmed by SMS, otherwise the panel just reports the zone number). See page 23

AREA 1 Identifies the zone as belonging to Area 1

Tue 7 Aug 2018 4:07:22pm Time and date of the event

1/1. Means message 1 of 1. Long SMS messages are split into multiple messages of 160 characters each






While SMS reporting is a powerful and useful feature it is dependent on the integrity and availability of the cellular network.

As with any SMS message it is possible that SMS monitoring reports may be delayed or fail to be delivered. Such failures are a function of the cellular network/s and beyond the control of Ness Corporation.

Ness recommends central station monitoring as your primary monitoring path.

SYMPTOM	POSSIBLE CAUSE	REMEDY
When arming, a zone icon is on or the keypad gives a long beep.	One or more detection device (a PIR or reed switch) may be <i>unsealed</i> .	Find the cause of movement or close the door or window.
<ul style="list-style-type: none"> • 10 beeps from keypad. • MAINS icon is flashing. • BATTERY icon 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 <i>unsealed</i> at the end of exit delay time.	Disarm the panel and check all zones.
The strobe icon 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 icon 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 icon is on steady.	You are in Exclude mode.	Press E to exit Exclude mode.
TAMPER icon flashing	The 24 hour Tamper input has alarmed. (Siren tamper or box tamper).	Call your installer.
ALARM MEMORY icon is flashing.	There are alarms in memory.	To clear the ALARM MEMORY icon, view the Alarm memory otherwise the icon will clear next time you arm the panel.
Cannot enter Program Mode.	The panel is armed. Or you may be attempting to enter program mode using one of the user codes.	Disarm the panel before attempting to enter Program Mode. Try again using the Master Code.
When I arm by radio key, the Armed icon on the keypad does not turn on immediately.	The panel is waiting 5 seconds for a second press of the ON button to enter Home mode.	This is normal operation when arming of Home mode by radio key is enabled.
The keypad is making a continuous slow beep.	This is the AutoTime warning beep which can be programmed to start from 1 to 99 minutes before an AutoTime event is due to begin.	The beeps will continue during the AutoTime warning period changing to faster beep in the final minute prior to the AutoTime event.
The panel re-arms itself a short time after disarming.	Auto Re-Arm is enabled.	Enter the premises after disarming. Auto Re-Arm is designed to re-arm the panel if you don't enter the premises after disarming.
The clock display shows the wrong time	The panel does not have a valid SIM card installed ...or... the SIM card has expired ...or... if using the panel without SIM, the clock needs to be manually programmed.	Contact your installer and fit a valid SIM card. Check the status of your SIM card with your telco. Program the clock, see page 30
The CELL display shows low signal or 00 or noCELL	The 4G antenna may not be fitted or a source of interference has been introduced in the premises	Check that the 4G antenna is connected and mounted in the best position for optimal signal.
... or displays noSC	... a valid SIM card is not fitted.	Fit a valid SIM card.

OPERATION SUMMARY

OPERATION	by KEYPADS & SMS
<p>to ARM The panel must initially be disarmed.</p>	<p>ALL KEYPADS ARM + E If the Arming Shortcut is enabled, P62E 5E or ARM + [UserCode] + E or [UserCode] + E If Code Only Arming has been enabled for that user code. Extra Option 4E</p> <p>SMS A[UserCode]E</p>
<p>to DISARM To disarm and/or reset alarms.</p>	<p>ALL KEYPADS [UserCode] + E</p> <p>SMS [UserCode]E</p>
<p>to arm HOME MODE Area1 must initially be disarmed.</p>	<p>ALL KEYPADS HOME + E (If the Home Shortcut is enabled, P62E 3E) or HOME + [UserCode] + E</p> <p>SMS H[UserCode]E</p>
<p>PANIC alarm</p>	<p>KPX/SATURN *   # together</p> <p>or *  + [UserCode] + E or *  + E (If Keypad Panic Shortcut is enabled, P62E 4E)</p> <p>NAVIGATOR press EMERGENCY then press PANIC</p> <p>SMS S[UserCode]E</p>
<p>EXCLUDE ZONES EXCLUDE + E can only be used when the panel is disarmed. EXCLUDE + CODE + E can be used anytime.</p>	<p>ALL KEYPADS EXCLUDE + E (If the Exclude Shortcut is enabled, P62E 2E) then KPX/SATURN [ZoneNumber] + E [ZoneNumber] + E (Enter the zone number/s to be excluded.)</p> <p>NAVIGATOR [SelectZones]</p> <p>then KPX/SATURN press E to exit Exclude mode or NAVIGATOR press  to exit.</p> <p>The Exclude icon flashes constantly while zones are excluded. Excluded zones are automatically included on disarming.</p>

INSTALLATION RECORD



DATE PURCHASED:	DATE INSTALLED:
INSTALLATION COMPANY:	
TELEPHONE:	
MONITORING COMPANY:	
SIM CARD PROVIDER:	SIM CARD PH NUMBER:

TIMERS

User programming options

P26E ENTRY DELAY TIME 1	<input type="text"/>	Seconds
P27E ENTRY DELAY TIME 2	<input type="text"/>	Seconds
P28E EXIT DELAY TIME	<input type="text"/>	Seconds
P29E SIREN RESET TIME	<input type="text"/>	Minutes

ZONE ASSIGNMENT

Installer programming options

P41E ENTRY DELAY 1	<input type="text"/>																		
P43E ENTRY DELAY 2	<input type="text"/>																		
P42E HANDOVER	<input type="text"/>																		
P40E INSTANT	<input type="text"/>																		
P45E AREA 1	<input type="text"/>																		
P46E AREA 2	<input type="text"/>																		
P51E MONITOR	<input type="text"/>																		
P52E 24 HOUR	<input type="text"/>																		
P54E RESET OUTPUT	<input type="text"/>																		
P56E STROBE OUTPUT	<input type="text"/>																		
P58E SONALERT OUTPUT	<input type="text"/>																		
P57E SIREN OUTPUT	<input type="text"/>																		
P74E Report (dialler)	<input type="text"/>																		

ZONES	DEVICE TYPE	PIR, Reed switch, etc	DESCRIPTION	Entrance, bedroom1, etc	P41E	P43E	P42E	P40E	P45E	P46E	P51E	P52E	P54E	P56E	P58E	P57E	P74E
D8 & D16	1																
	2																
	3																
	4																
	5																
	6																
	7																
	8																
D16	9																
	10																
	11																
	12																
	13																
	14																
	15																
	16																

USER CODE	OPTION No	Extra Options Assigned E.g. Radio Code, Arm Only, etc.
1 ^{Master Code}	P201E	
22	P202E	
32	P203E	
42	P204E	
52	P205E	
62	P206E	
72	P207E	
82	P208E	
92	P209E	
10	P210E	
11	P211E	
12	P212E	
13	P213E	
14	P214E	
15	P215E	
16	P216E	
17	P217E	
18	P218E	
19	P219E	

USER CODE	OPTION No	Extra Options Assigned E.g. Radio Code, Arm Only, etc.
03	P220E	
14	P221E	
24	P222E	
34	P223E	
44	P224E	
54	P225E	
64	P226E	
74	P227E	
84	P228E	
29	P229E	
30	P230E	
31	P231E	
32	P232E	
33	P233E	
34	P234E	
35	P235E	
36	P236E	
37	P237E	
38	P238E	

USER CODE	OPTION No	Extra Options Assigned E.g. Radio Code, Arm Only, etc.
9	P239E	
0	P240E	
1	P241E	
2	P242E	
3	P243E	
4	P244E	
5	P245E	
6	P246E	
7	P247E	
48	P248E	
49	P249E	
50	P250E	
51	P251E	
52	P252E	
53	P253E	
54	P254E	
55	P255E	
56	P256E	



NESS SIM Registration & Activation

THIS CELLULAR PRODUCT IS NOT LOCKED AND CAN BE USED WITH ANY ACTIVE SIM.¹

A Ness SIM card is supplied for your convenience. You can choose to activate the Ness SIM or BYO SIM on a network of your choice.

Please activate the Ness SIM to enjoy the advantages of remote access and monitoring via the cellular network.²

Ness SIM benefits:

- A Ness SIM card is supplied
- Easy online activation & simple billing
- Competitive Retail & Trade SIM plans
- No lock-in contracts - opt out anytime



To activate the SIM
activate.ness.com.au

1. Standard sized SIM required.
2. Monthly network access charges apply once activated. Access charges do not include central station monitoring which is a separate service.

SIM enquiries: simactivation@ness.com.au